DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

BOARD OF DIRECTORS

WATER QUALITY AND WATER SERVICES COMMITTEE MEETING AGENDA

Thursday, February 18, 2016
11:00 a.m.

5000 Overlook Avenue, SW
Washington, DC 20032

11:00 a.m. I. Call to Order — Rachna Butani-Bhatt, Chairperson

11:05 a.m. II. Water Quality Monitoring — Charles Kiely

- Coliform Testing
- LCR Compliance Testing

11:15 a.m. III. Fire Hydrant Upgrade Program — David Wall

- Status Report of Public Fire Hydrants
- Out of Service Fire Hydrant Map

11:25 a.m. IV. Spring Cleaning (Chlorine Burn) — Charles Kiely

11:35 a.m. V. Executive Session*

Adjournment

*The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(1); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10);proprietary matters under D.C. Official Code § 2-575(b)(11); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.

Status Report of Public Fire Hydrants for DC Water Services Committee - February 4, 2016

	November Cmte. Report (Nov 03, 2015)	December Cmte. Report (Dec 04, 2015)	January Cmte. Report (Jan 11, 2016)	February Cmte. Report (Feb 04, 2016)
Public Fire Hydrants:	9,453	9,457	9,456	9,457
In Service:	9,395	9,397	9,405	9,403
Marked Out-of-Service (OOS)	58	60	51	54
OOS - defective requiring repair/replacement	43	48	31	35
% OOS requiring repair or replacement (DC Water goal is 1% or less OOS)	**0.45%**	**0.51%**	**0.33%**	**0.37%**
OOS - due to inaccessibility or temp construction work	15	12	20	19

Note: The number of public hydrants in the DC Water system fluctuates; this number fluctuates as hydrants are added and removed during development or construction activities as well as at the request of the Fire Dept.

Breakdown of Public Fire Hydrants Out-of-Service (OOS) as of February 4, 2016 54

Breakdown of Defective

	0-7 Days	8-14 Days	15-30 Days	31-60 Days	61-90 Days	91-120 Days	> 120 Days	Total
Hydrant Needs Repair/Investigation	0	2	0	0	0	1	5	8
Needs Valve Investigation for Low Flow/Pressure or Shut Test for Replacement	0	0	1	0	0	0	2	3
Needs Replacement	1	3	1	2	2	2	13	24
Defective								**35**

Breakdown of Others

	0-7 Days	8-14 Days	15-30 Days	31-60 Days	61-90 Days	91-120 Days	> 120 Days	Total
Temporarily OOS as part of operations such as a main repair	0	0	0	3	1	0	1	5
Construction* - OOS	0	0	2	1	3	0	3	9
Obstructed Hydrant – OOS hydrant due to operation impeded by an obstruction.	0	0	0	0	0	0	5	5
Others								**19**

**Fire hydrants not accessible due to construction activities. Also includes new hydrants which have not yet been commissioned or old hydrants which will be abandoned as part of ongoing construction projects.*

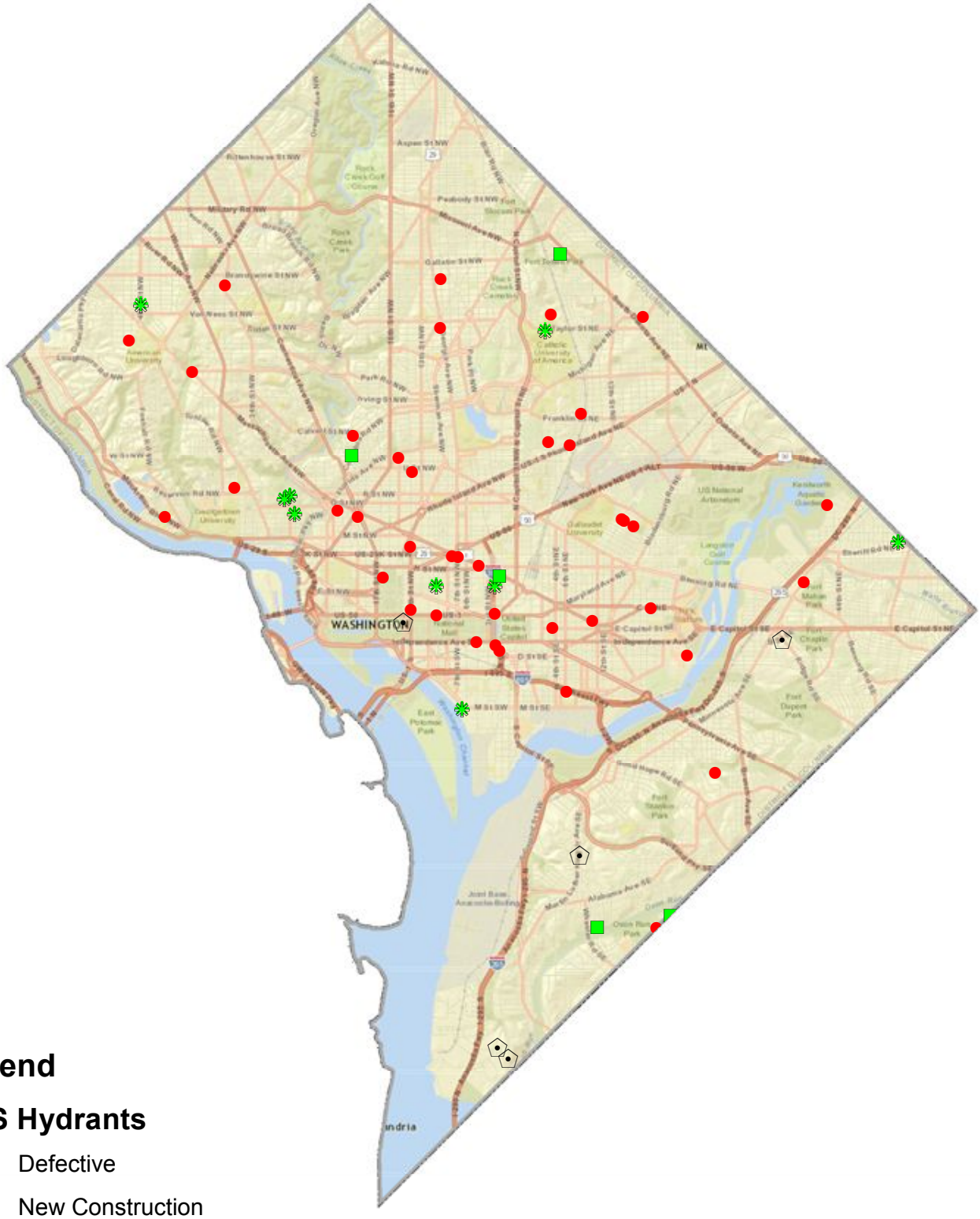
Status of Private Fire Hydrants-Based on FEMS Inspection Reporting

Private Hydrants: 1,318

- **In Service: 1,189**
- **Out-of-Service (OOS): 129**

Map of Public Out-of-Service Hydrants

Feb. 8, 2016



Legend

OOS Hydrants

- Defective
- New Construction
- Obstructed
- Temporary

Annual Spring Cleaning

Water Quality and Water Services Committee

February 18, 2016

Water Treatment

- The Washington Aqueduct has used chlorine as its primary disinfectant for decades and began using chloramines as its secondary treatment process in November 2000.
- Chloramine, which is a mixture of chlorine and ammonia was introduced as a means to control disinfection byproducts in the distribution mains in response to EPA's Disinfection Byproduct Rule.
- This treatment change was also the principal factor in the lead crisis in the District of Columbia over a decade ago until the addition of orthophosphate was added to the treatment train in 2004.
- This treatment process is well established and is deployed in approximately 1/3 of the large treatment plants across the country.

Spring Cleaning

- Many large chloramine systems perform an annual maintenance process that we call “Spring Cleaning” (Fairfax Water Authority, Greenville SC, Raleigh, NC)
- During Spring Cleaning, free chlorine is substituted for chloramines in the secondary treatment process to help prevent nitrification and control microbial activity during the warmer months.
- By substituting free chlorine for several weeks, the intent is to build up a higher chlorine residual in our unlined cast iron mains which can be susceptible to microbial contamination.

Maintenance Schedule

- The temporary treatment change will begin on March 7, 2016 and continue through May 2, 2016.
  - This year is an extended period (5 to 7 weeks) to allow for construction activity at McMillan Treatment Plant
- During this time, customers may experience:
  - A slight change in taste and odor
    - we have been successful in reducing the number of complaints by reducing the chlorine concentration.
  - Slightly discolored water or cloudiness in their water in areas where our smaller distribution mains may be heavily tuberculated
    - Should quickly dissipate with minimal flushing at the tap.

Communication

- Critical care facilities have been notified and provided instructions regarding onsite dialysis
- Known aquarists have been notified
- What's on Tap Insert in the February bill insert
- Consecutive Systems have been notified