

Water Policy Meeting

October 20, 2015

Agenda

- Introductions
- Update on Committee Activities
- Residents Questions/Concerns
 - Use Regulations
 - MWRA connection
- Water System Background

Water Policy Committee Activities

- Appointed by BOS August 5, 2015
- First meeting August 26, 2015
- Members
 - Wayne Bates – Chairman
 - Phillip Williams – Secretary
 - Cathy Rooney – Member
 - Jeff Lemay – Member
 - Bill Brown – Member
 - David Manugian – Town Official

Water Policy Committee Activities

- Identified 5 Main Objectives
 1. Water use policy (Jeff Lemay/Bill Brown)
 2. Rate structure (Bill Brown)
 3. Source protection (Wayne Bates/Cathy Rooney)
 4. Infrastructure (Wayne and David)
 5. Education (Cathy/David)

Water Policy Committee Activities

- Identified need to better understand
 - Dept of Conservation and Recreation's control of Hopkinton Reservoir levels
 - Dept of Environmental Protection permitting process
- Had meetings with
 - DCR on 09-30-15
 - DEP on 10-06-15
- Obtained overview of our withdrawal allowances and restrictions

Allowable Daily Water Withdrawal

What we CAN withdraw from all the wells on Howe Street:

by Town

- | | |
|---|-------------------|
| • Ashland | 1.68 MGD |
| • <u>Hopkinton</u> | <u>+ 0.50 MGD</u> |
| • Total Ave. Allowable Daily Withdrawal | = 2.18 MGD |
| • Maximum Allowable Daily Withdrawal | = 5.90 MGD |

Allowable Daily Water Withdrawal

What we CAN withdraw from all the wells on Howe Street:

by Authorization

- Registered (prior to 1988) 1.23 MGD
- Permitted (received in 2001)* 0.95 MGD
- Total Ave. Allowable Daily Withdrawal = 2.18 MGD
- Maximum Allowable Daily Withdrawal = 5.90 MGD



* includes authorization to sell 0.5MGD to Hopkinton and is the point in time when the MassDEP and DCR set several restrictions

Actual Daily Water Withdrawal

- **Actual Ave. Daily Withdrawal by Town**

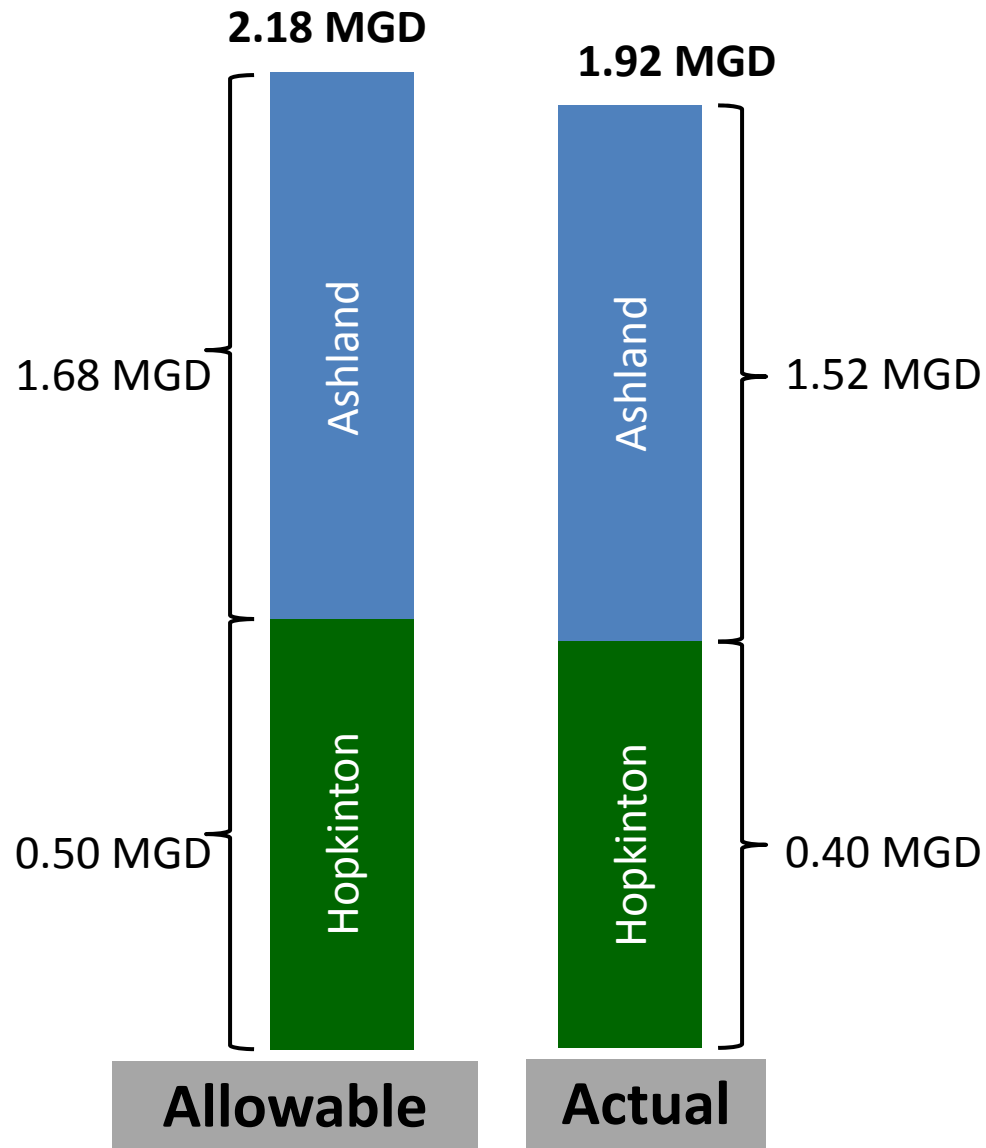
– Ashland	1.52 MGD
– <u>Hopkinton</u>	<u>0.40 MGD</u>
– Total Ave. Daily Withdrawal*	1.92 MGD

* *based on five year average from 2010 to 2014*

Actual Daily Water Withdrawal 2010-2014

Report Use Summary	2010	2011	2012	2013	2014	2010-2014 ave
Ashland (MGD)	1.54	1.54	1.50	1.51	1.49	1.52
Hopkinton (MGD)	0.42	0.40	0.41	0.38	0.41	0.40
Total Actual (MGD)	1.96	1.94	1.91	1.89	1.90	1.92

Water Withdrawal



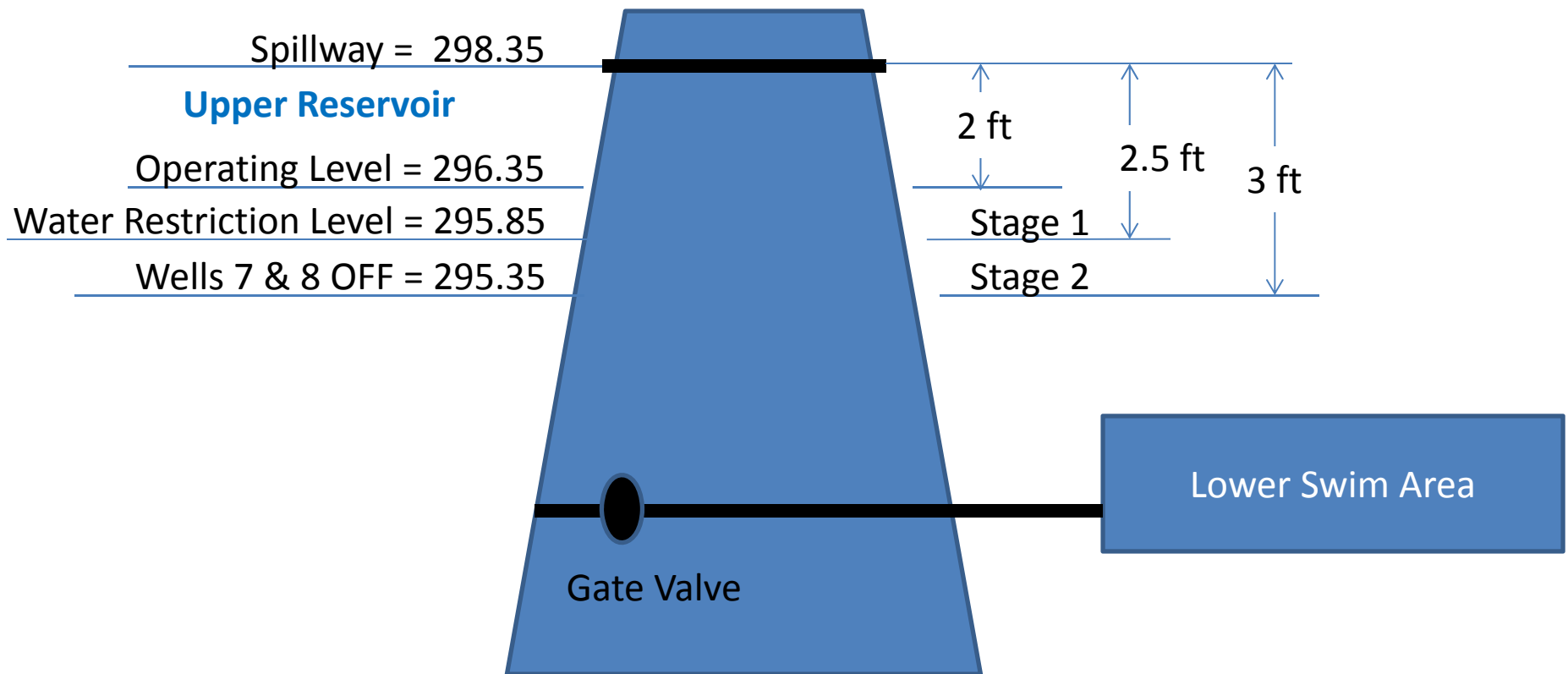


Major Conditions of 2001 Permit

- Gallons per person per day 65 RGPCD
 - We are currently at 57 RGPCD
- Unaccounted for Water (UAW) 10%
 - We are currently at 13 % UAW
- Water Use Restrictions
 - Mandatory restrictions @ reservoir level 295.85
 - Emergency conditions @ reservoir level 295.35
 - Maximum Daily Use exceeds 5.90 MGD

RGPCD = Residential Gallons Per Capita Per Day

Restrictions by DEP and DCR based on 2001 Permit



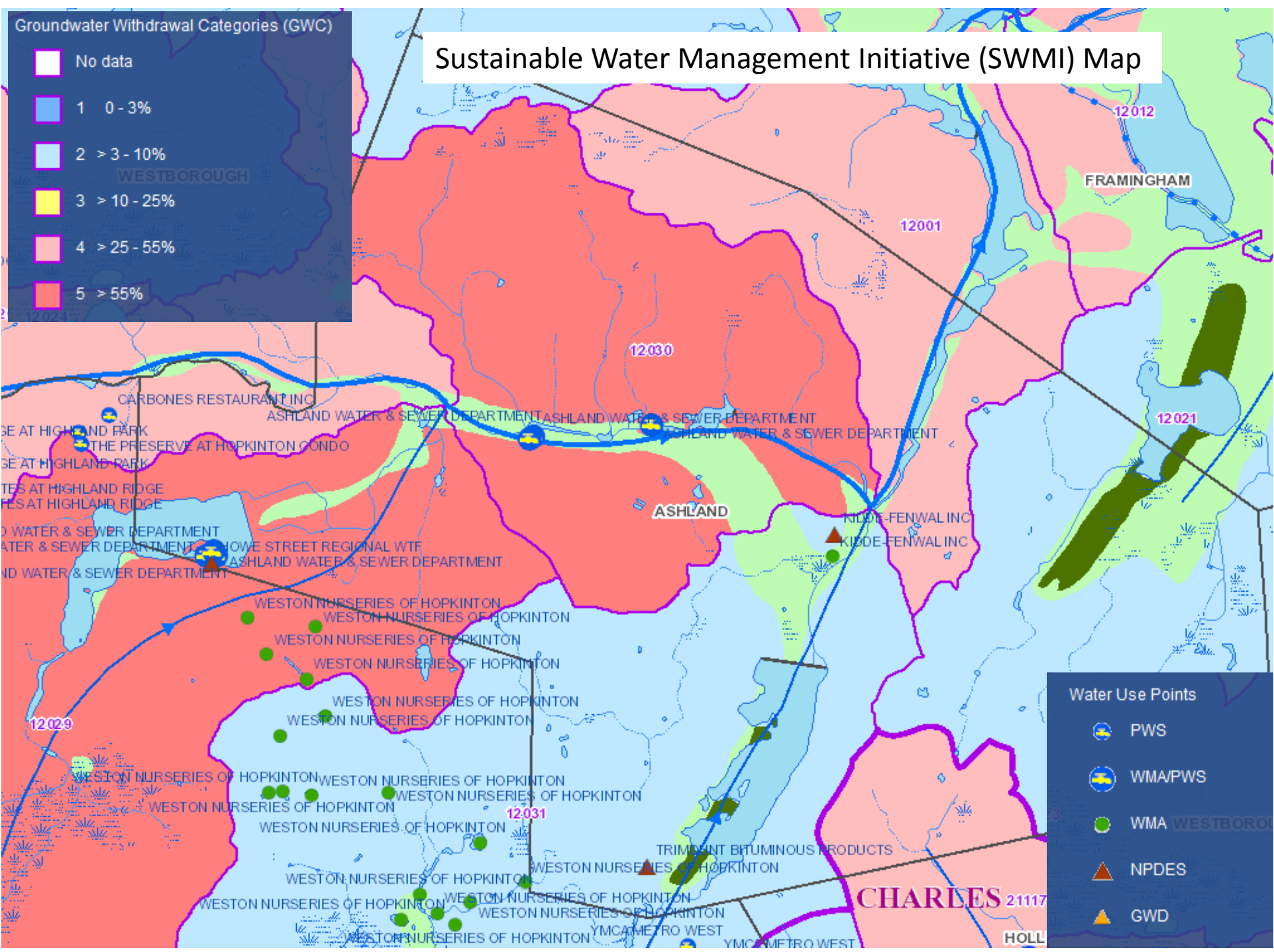
DCR and DEP Explained – SWMI Map

- **Sustainable water Management Initiative**
- **Comprehensive mapping of aquifers**
- **State-wide**
- **Shows**
 - Major and minor groundwater basins
 - Wells, discharges
 - % Withdrawal
 - Groundwater flow direction

Sustainable Water Management Initiative (SWMI) Map

Groundwater Withdrawal Categories (GWC)

White	No data
Light Blue	1 0 - 3%
Medium Blue	2 > 3 - 10%
Yellow	3 > 10 - 25%
Pink	4 > 25 - 55%
Red	5 > 55%



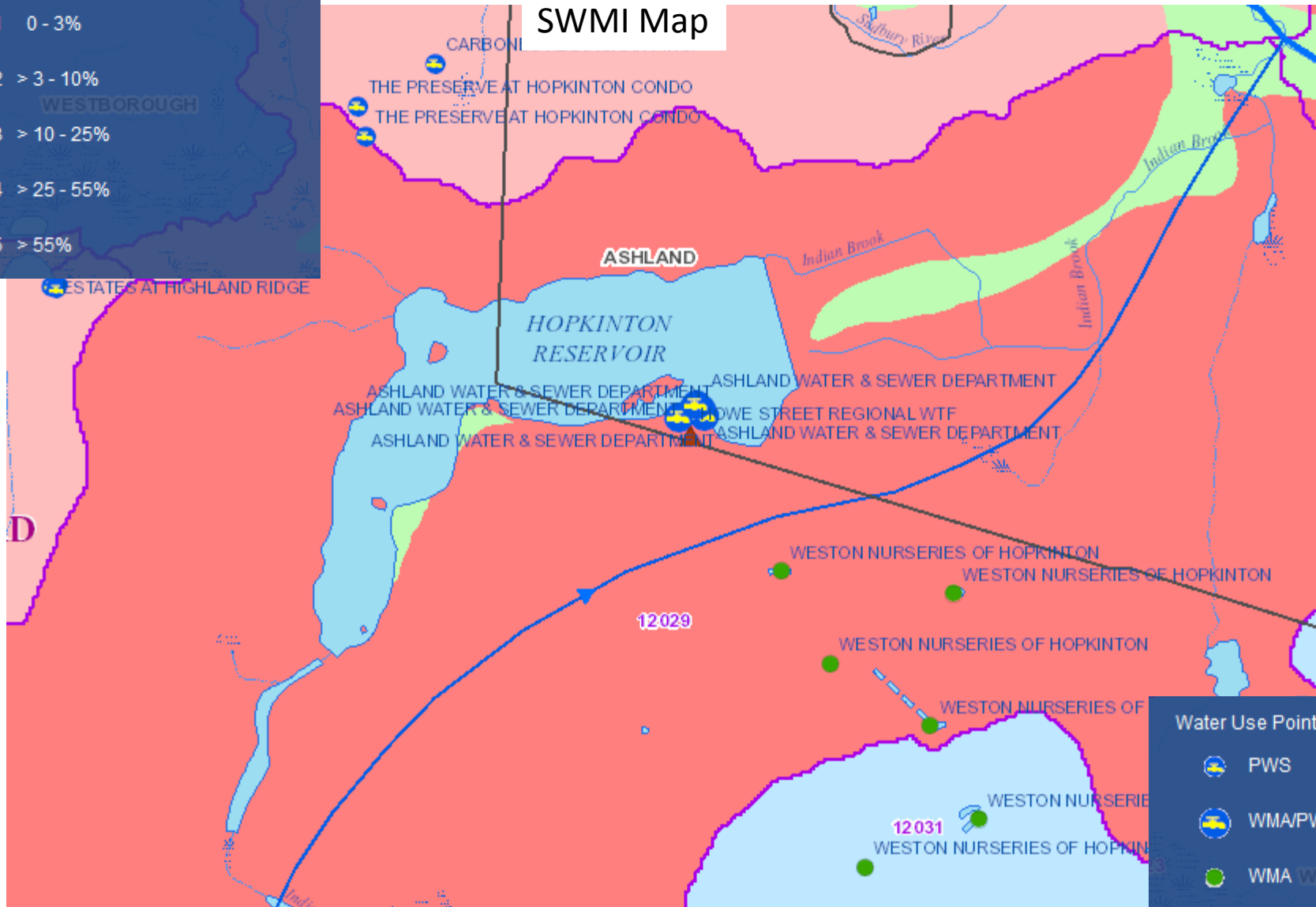
Water Use Points

- PWS
- WMA/PWS
- WMA WESTBOROUGH
- NPDES
- GWD

Groundwater Withdrawal Categories (GWC)

- No data
- 1 0 - 3%
- 2 > 3 - 10%
- 3 > 10 - 25%
- 4 > 25 - 55%
- 5 > 55%

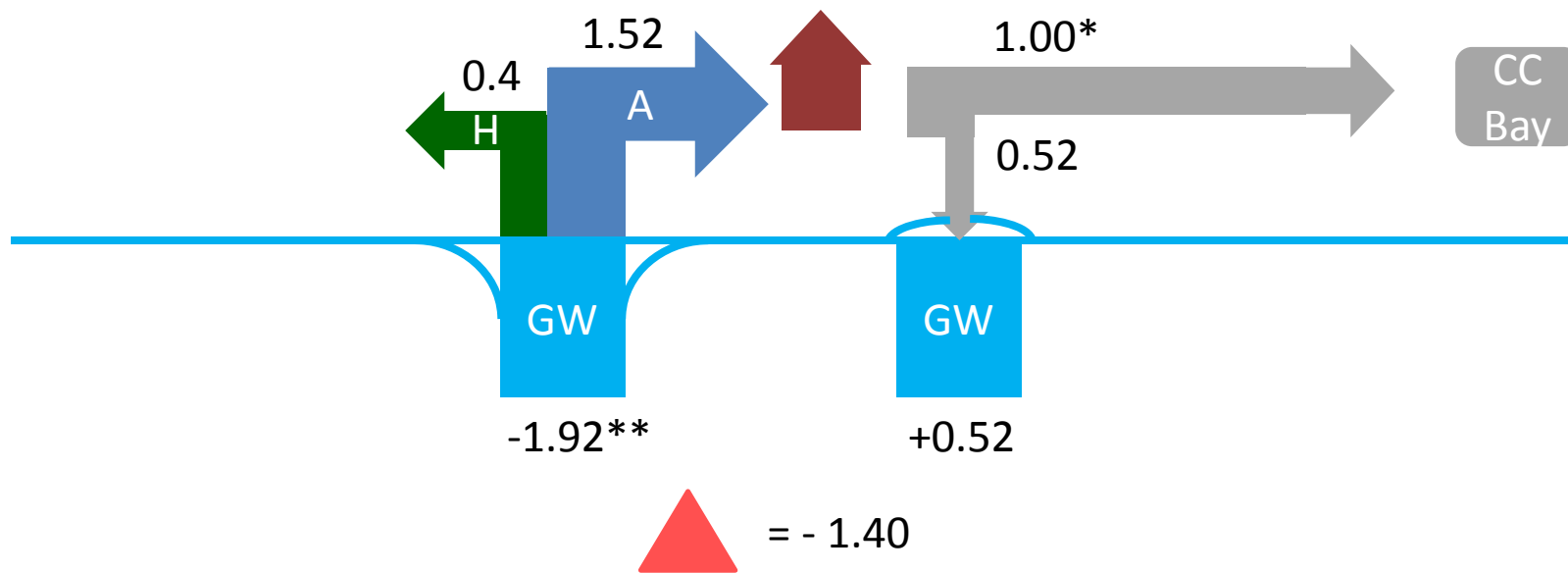
SWMI Map



Water Use Points

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What Does Red on SWMI Map Mean?



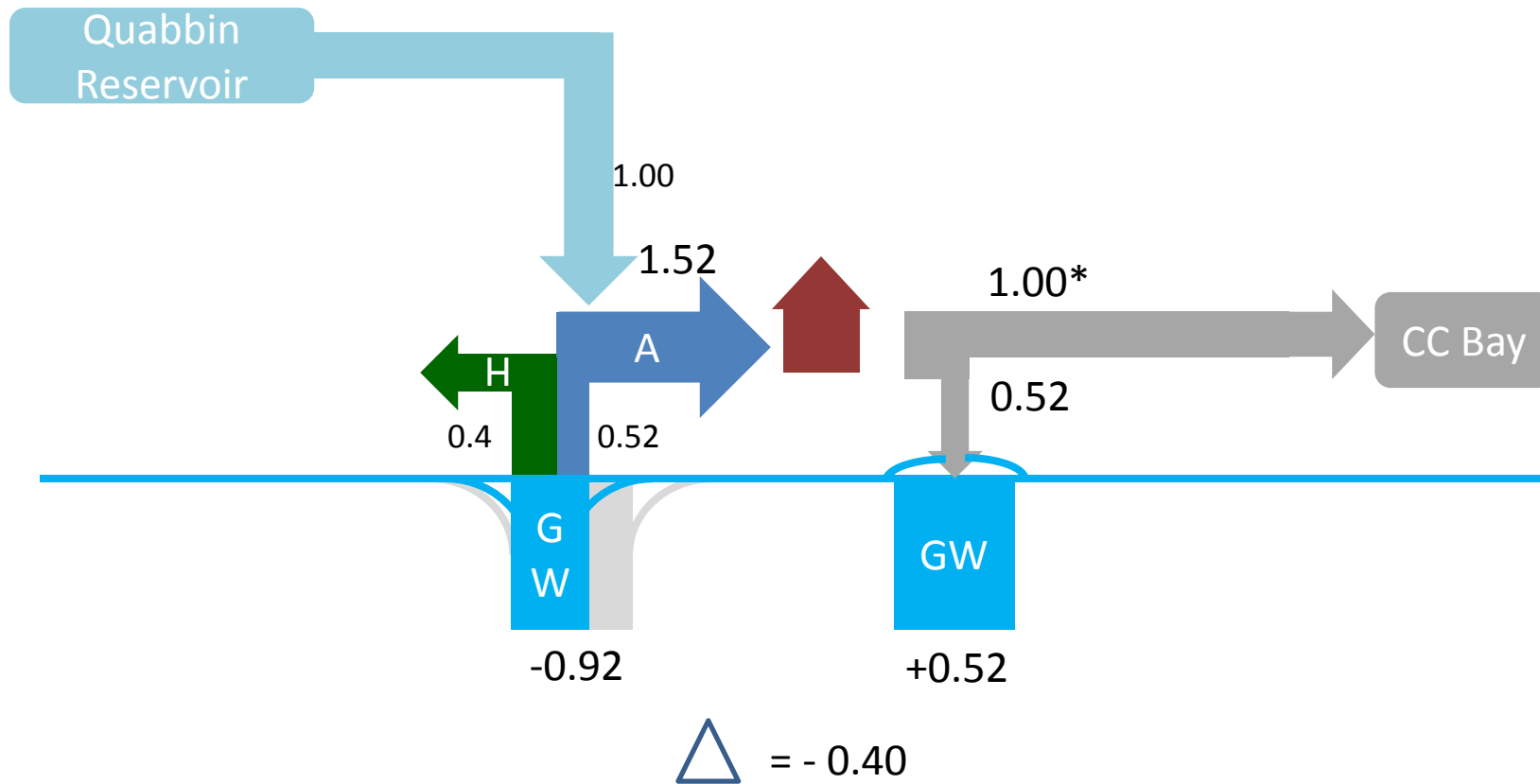
Notes

- * Sewer flows based on 36 month rolling average
- ** Water withdrawal based on 2010-2014 average

Current Withdrawal Not Sustainable

- Need for Emergency connection if;
 - Drought
 - Major water main failure
 - Dam repairs or major maintenance
- Past instances
 - Fall 2007 – Emergency Connection
 - Fall 2013 – Emergency Connection

MWRA Connection



Notes

- * Sewer flows based on 36 month rolling average
- ** Water withdrawal based on 2010-2014 average

Residents Concerns and Questions