

Exeter Annual Water Use versus Stream Flow – Calendar Year 2004

Water use was reported by twelve sources, one transfer of water, and no discharges in the Exeter Water Management Planning Area. The Water Management Planning Area has no hydropower facilities. The Water Management Planning Area includes two industrial (aggregate) facilities each with two sources, two sources at a golf course, and two water supply system sources. The Sherwood Forest Mobile Home Park received water temporarily during 2004 from a transfer from Exeter Water Works and returned water to the Exeter Sewer system resulting in no change within the watershed.

Four sources were not included in this assessment because they did not meet the definition of an Affected Water User. These sources include two agricultural ponds used for irrigation, a bottled water supply, and a community water supply and two agricultural sources that were not used in 2004. The annual water use during 2004 reported for the remaining two sources was 6,368,445 gallons (851 ft³). This use represents 5 to 22 % of the water use included in the assessment.

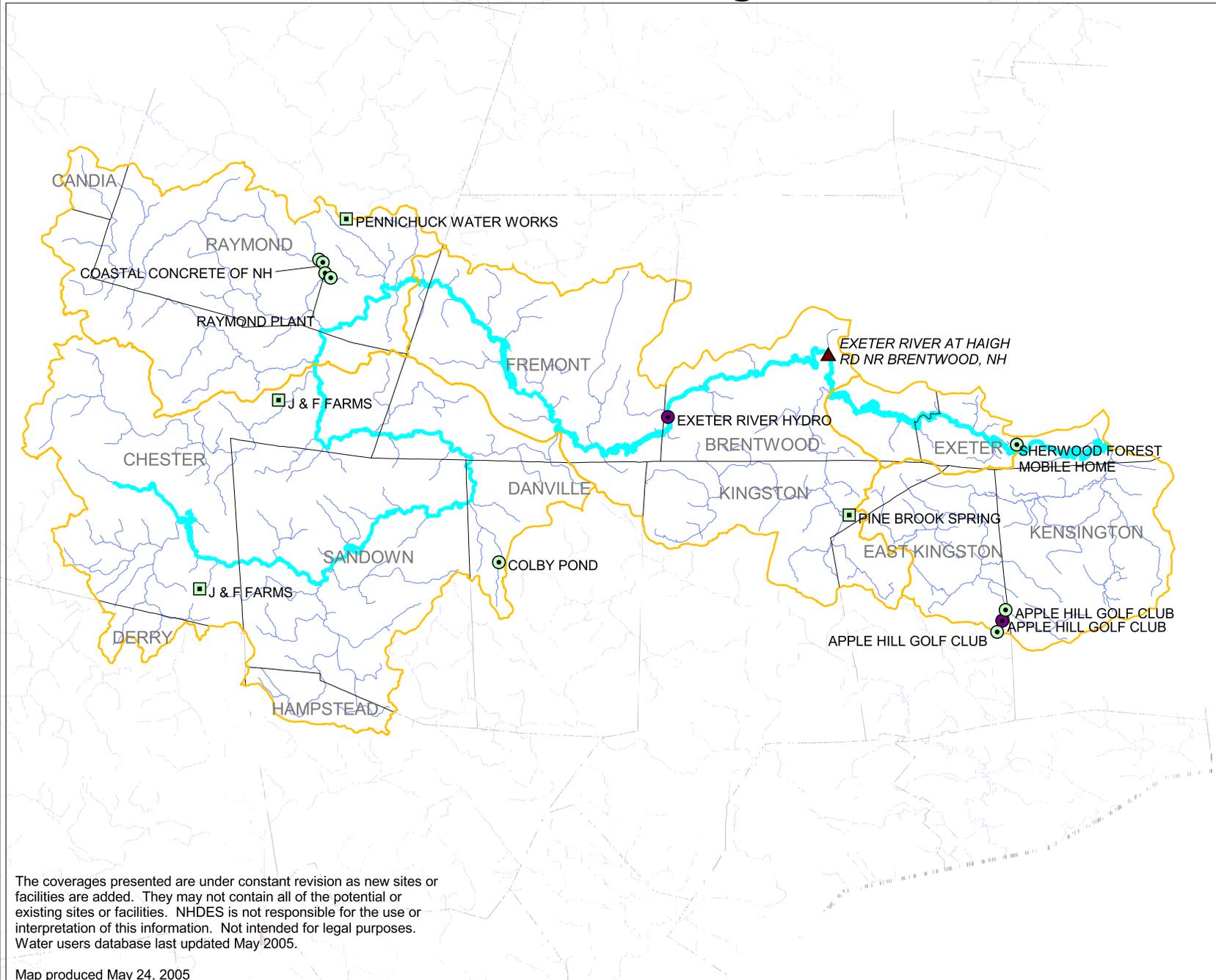
Unassessed Water Users (Source > 500 feet from perennial stream)	Unassessed Annual Water Use (gallons)
Liberty Tree Community WS	6,163,445
Pine Brook Spring Water	205,000
J & F Farms (Source 3)	0
J & F Farms (Source 4)	0

The beginning of the Designated River is at its headwaters at the route 102 bridge in Chester and the end is at its confluence with Great Brook in Exeter. The Exeter Water Management Planning Area covers 76 square miles and includes a streamflow gage in Brentwood (USGS 01073587 EXETER RIVER AT HAIGH ROAD, NEAR BRENTWOOD, NH) measuring 63.5 square miles of the WMPA. For this report the streamflow was transposed areally from the gage to all impact points on the Designated River. A value for 7Q10 at the Exeter gage was estimated by averaging 7Q10 values from the adjacent Lamprey River and nearby Oyster River watershed gages. The 2004 assessment resulted in one month not in compliance with the General Standard. July was the only month in 2004 when the Designated River was not in compliance with the General Standard.

Exeter Designated River	River Miles not in Compliance with General Standard (0 at the mouth)	Length of River Miles not in Compliance with General Standard	Maximum value of Aggregate WU /Stream flow	2003 Months not in Compliance with the General Standard	Unassessed Water Use outside 500' as a percent of the total Water Use
January	--	--	0.26%	--	25.1%
February	--	--	0.30%	--	23.0%
March	--	--	0.23%	--	11.0%
April	--	--	0.078%	--	21.2%
May	--	--	0.24%	--	8.7%

June	--	--	0.58%	--	5.7%
July	28.8 to 0.0	28.8	1.5%	x	6.7%
August	--	--	1.0%	x	7.4%
September	--	--	0.83%	x	7.4%
October	--	--	1.0%	--	7.1%
November	--	--	0.68%	--	8.1%
December	--	--	0.17%	--	11.0%

Exeter Affected Water User Facilities: Source and Discharge Locations



Legend

Affected Water Users

- Source
- Discharge

Water Users (outside 500 ft from hydrology)

- Source
- Discharge

Stream Gages

- ▲ Active
- ▲ Inactive

~ Designated Reach

~ Hydrology

State boundary

Town boundary

WMPA

The coverages presented are under constant revision as new sites or facilities are added. They may not contain all of the potential or existing sites or facilities. NHDES is not responsible for the use or interpretation of this information. Not intended for legal purposes. Water users database last updated May 2005.

Map produced May 24, 2005

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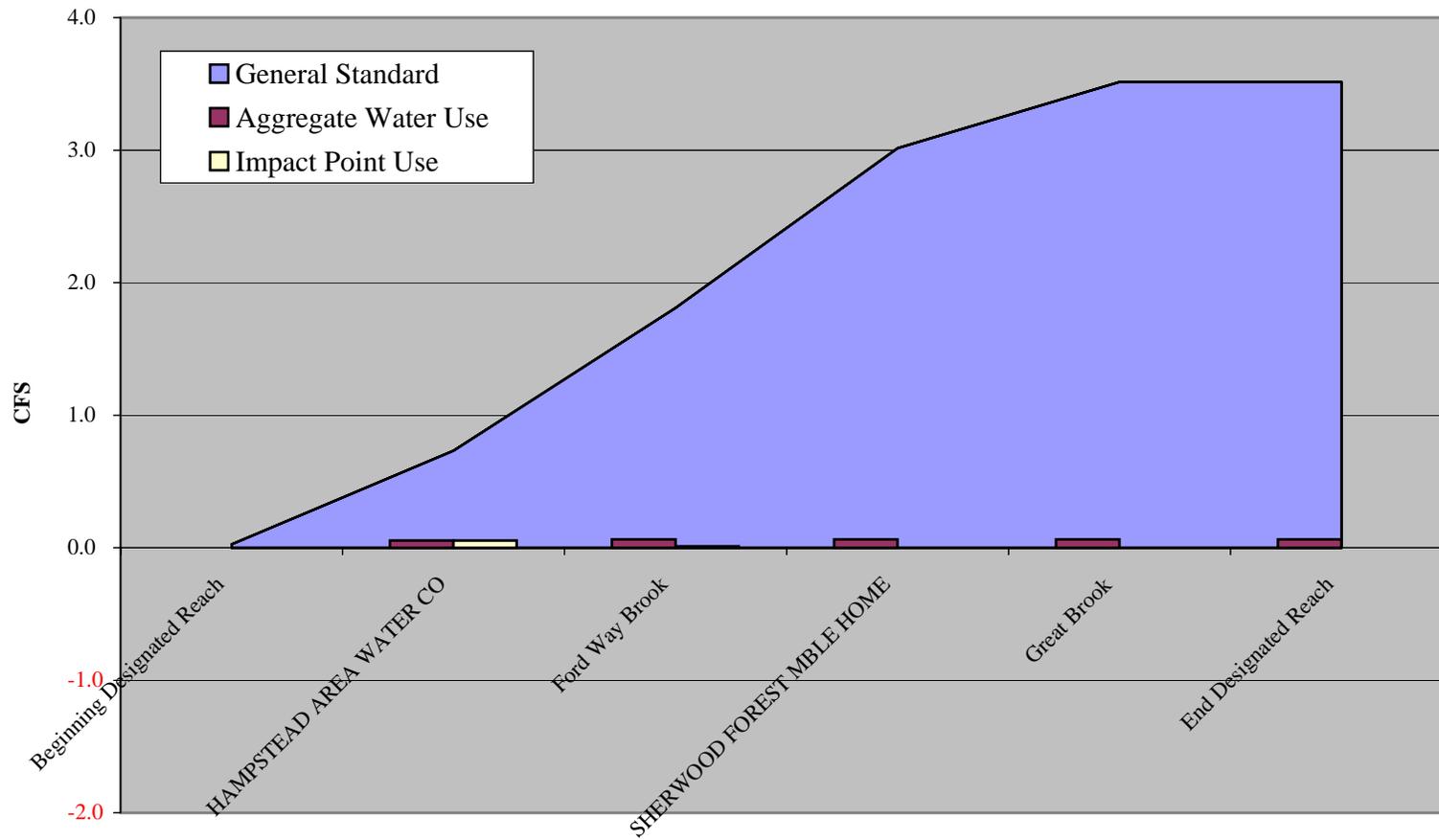


0 1 2 Miles

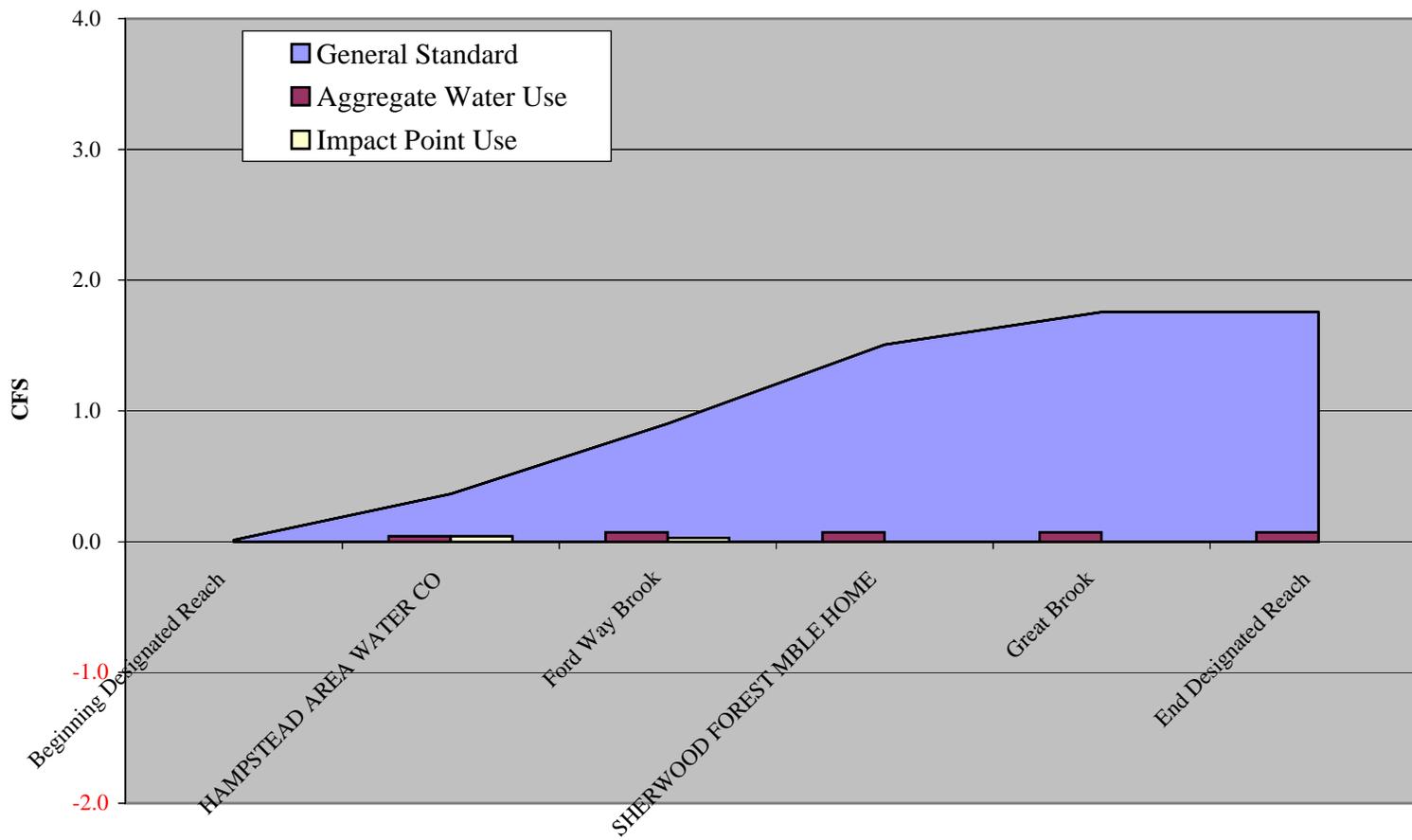
2004 Exeter

2004 Exeter															
WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Beginning Designated Reach			0.65	0.026	0.013	0.026	0.103	0.026	0.026	0.001	0.013	0.013	0.013	0.013	0.026
HAMPSTE	COLBY PC	20768 207	18.31	0.68	0.33	0.70	2.88	0.68	0.65	(0.046)	0.29	0.32	0.31	0.32	0.69
Ford Way	Water use at confluenc		45.20	1.7	0.83	1.6	7.0	1.5	1.5	(0.25)	0.58	0.62	0.61	0.61	1.6
SHERWOOD FORES	20468 204		75.40	3.0	1.4	2.9	11.8	2.7	2.7	(0.22)	1.2	1.2	1.2	1.2	2.8
Great Broo	Water use on Great Br		87.83	3.5	1.7	3.4	13.8	3.2	3.2	(0.24)	1.4	1.5	1.5	1.5	3.3
End Desigr	Confluence Exeter and		87.83	3.5	1.7	3.4	13.8	3.2	3.2	(0.24)	1.4	1.5	1.5	1.5	3.3

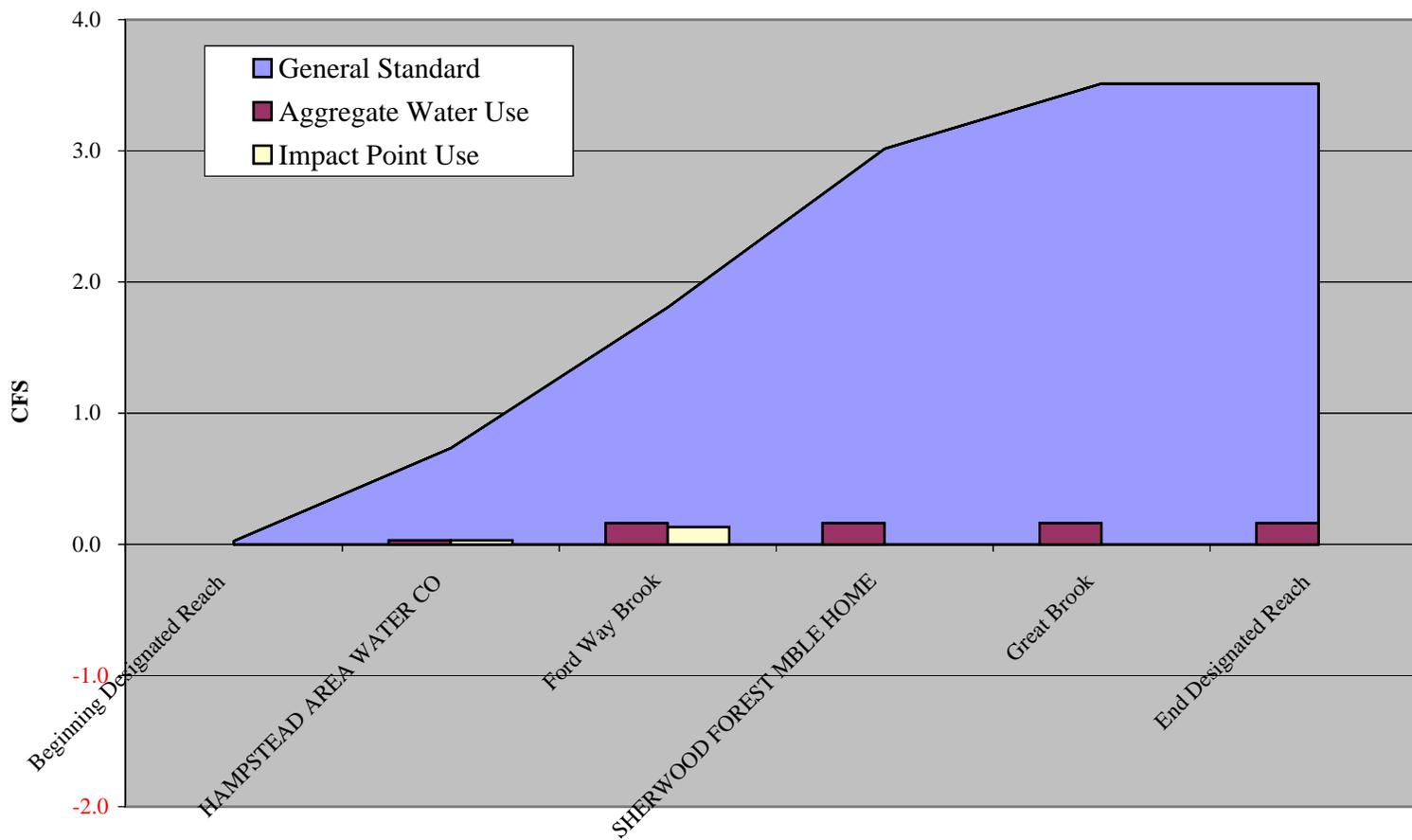
January 2004 Exeter



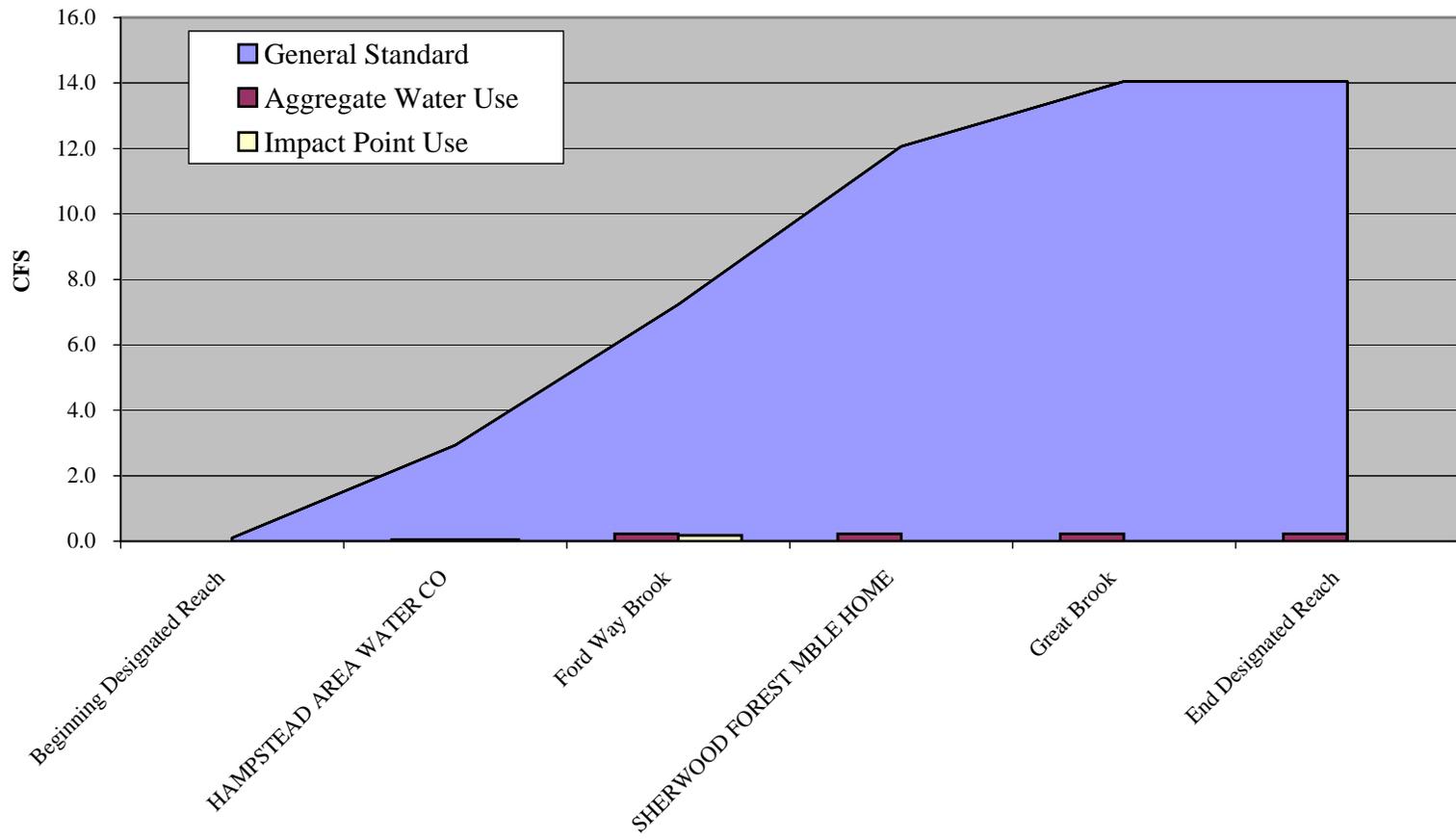
February 2004 Exeter



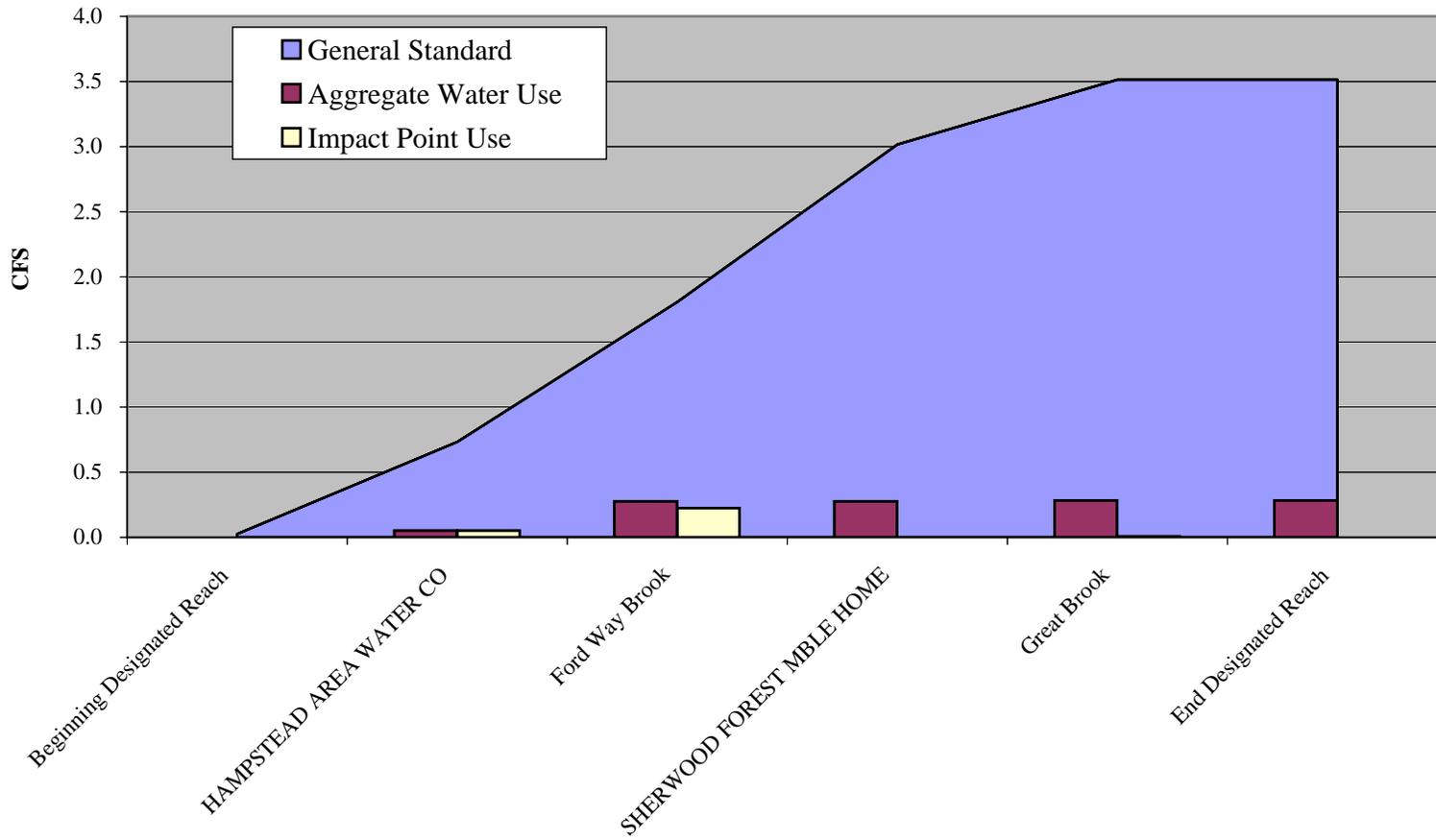
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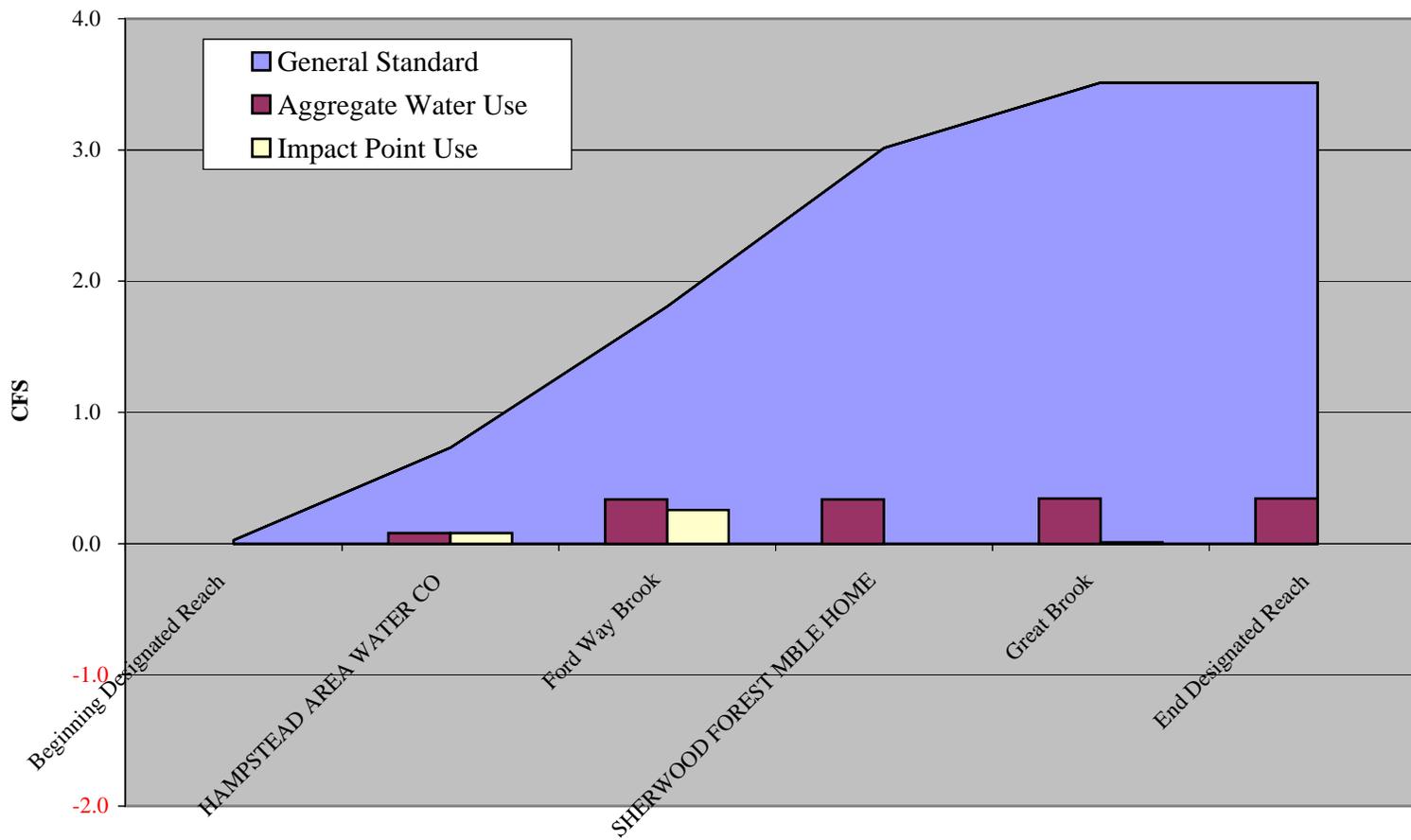
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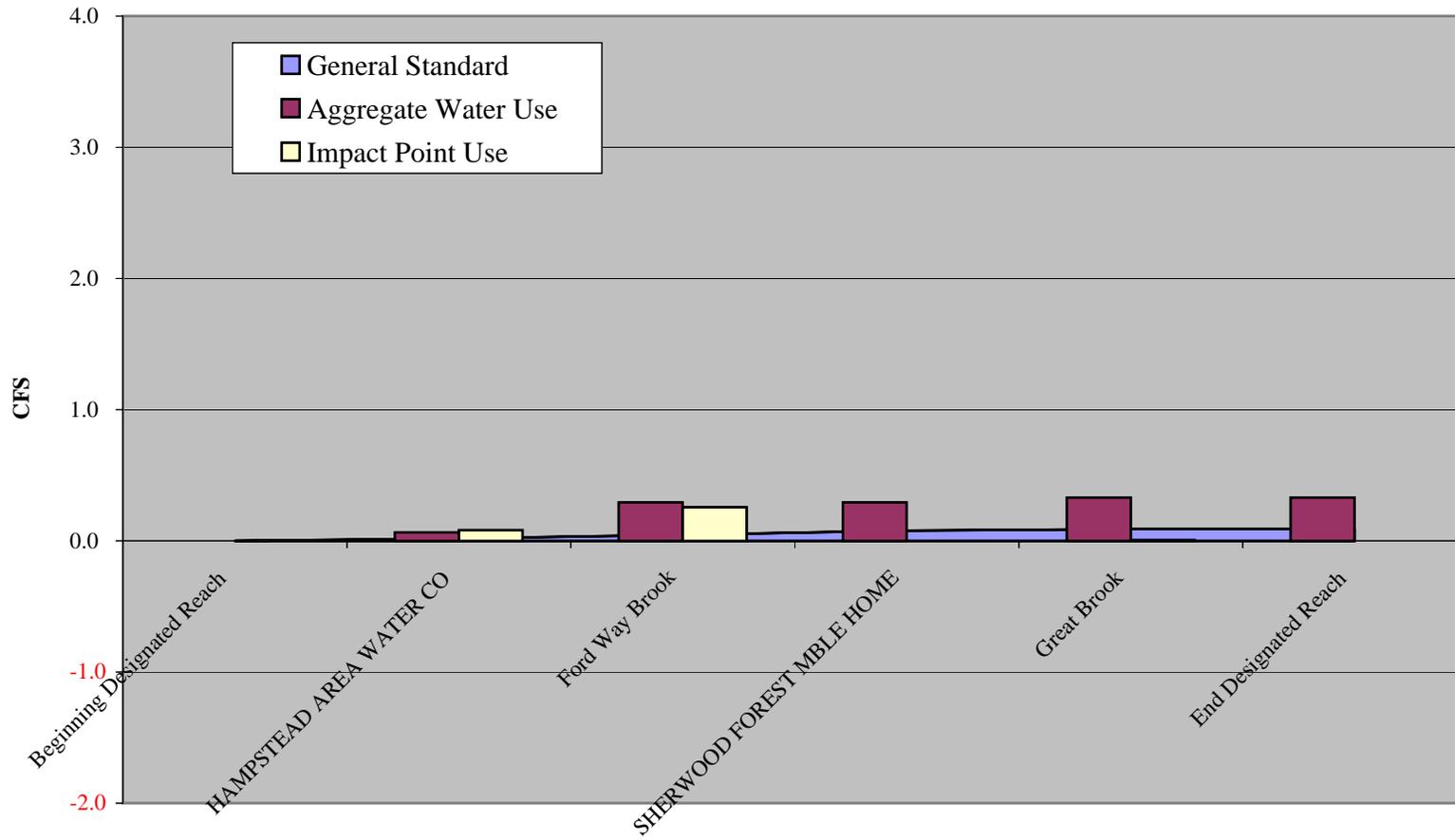
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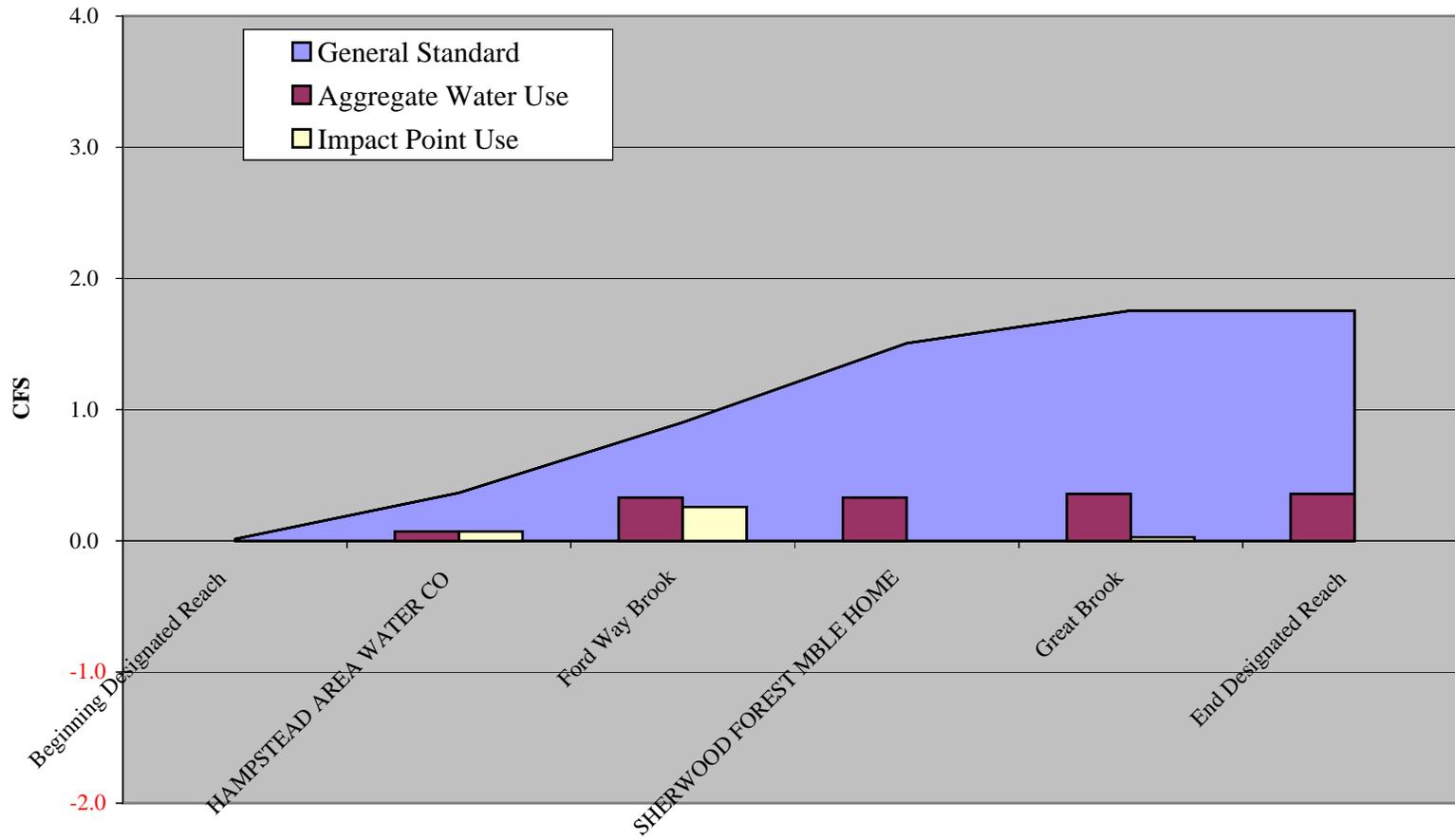
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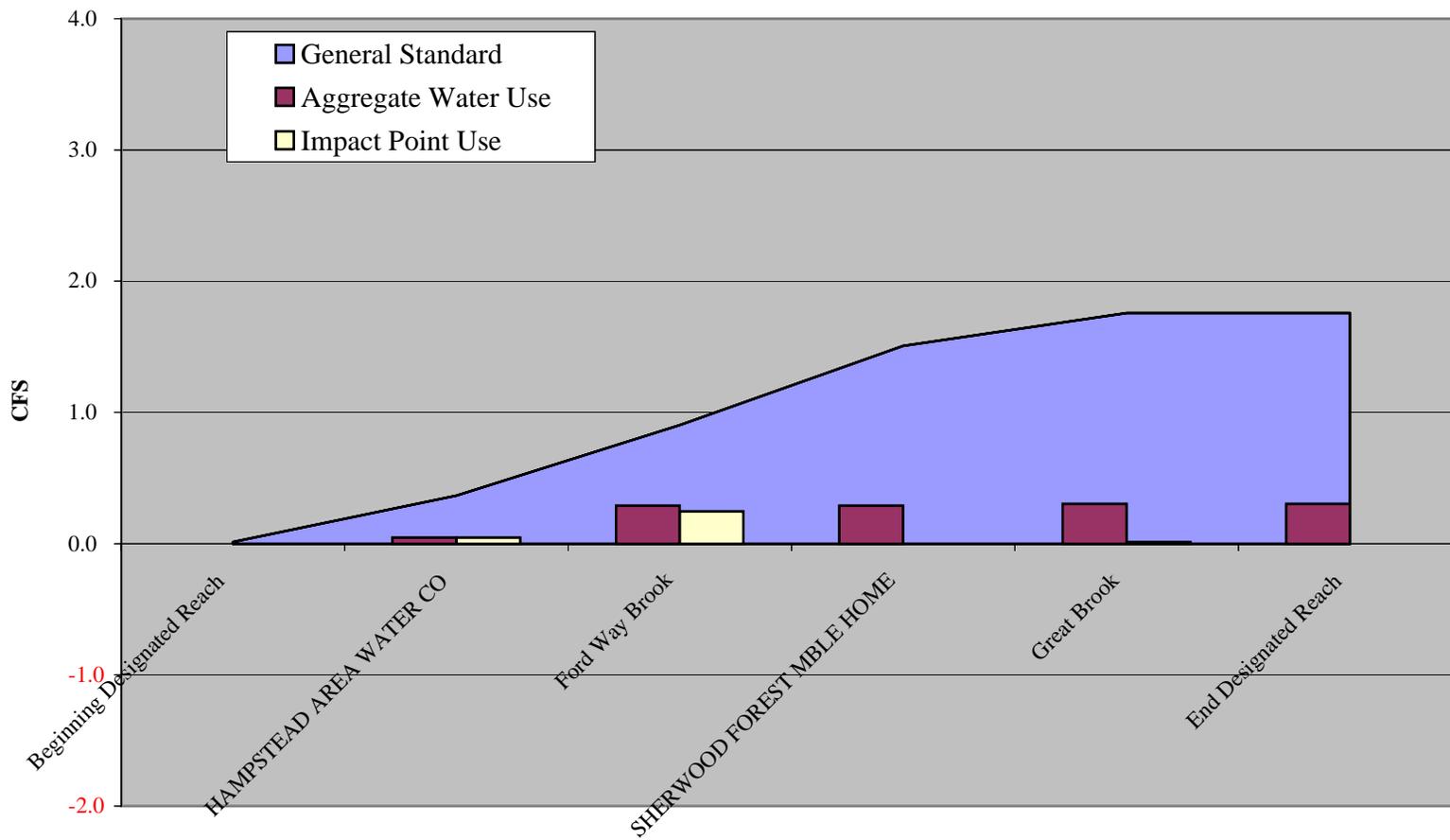
July 2004 Exeter



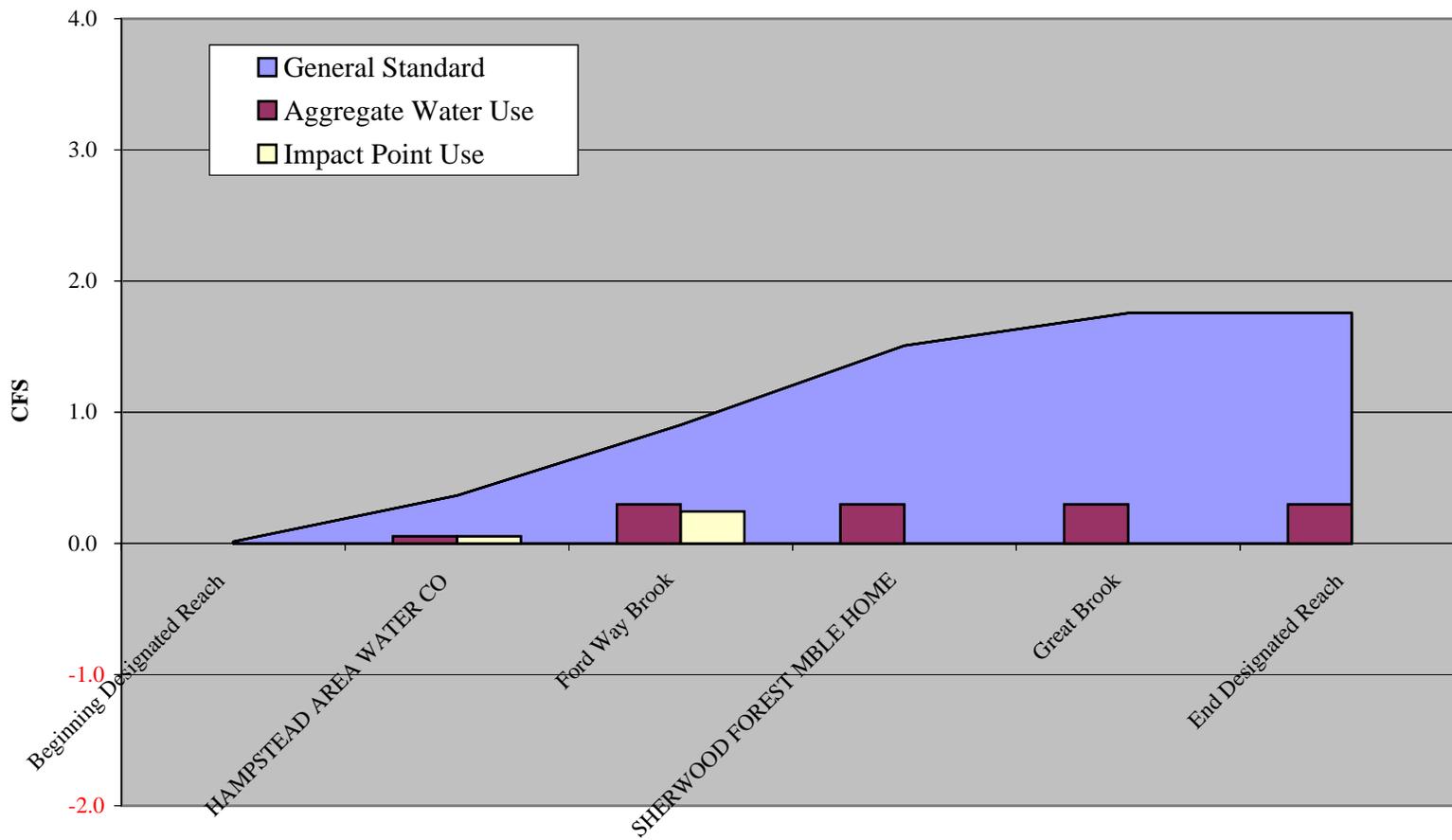
August 2004 Exeter



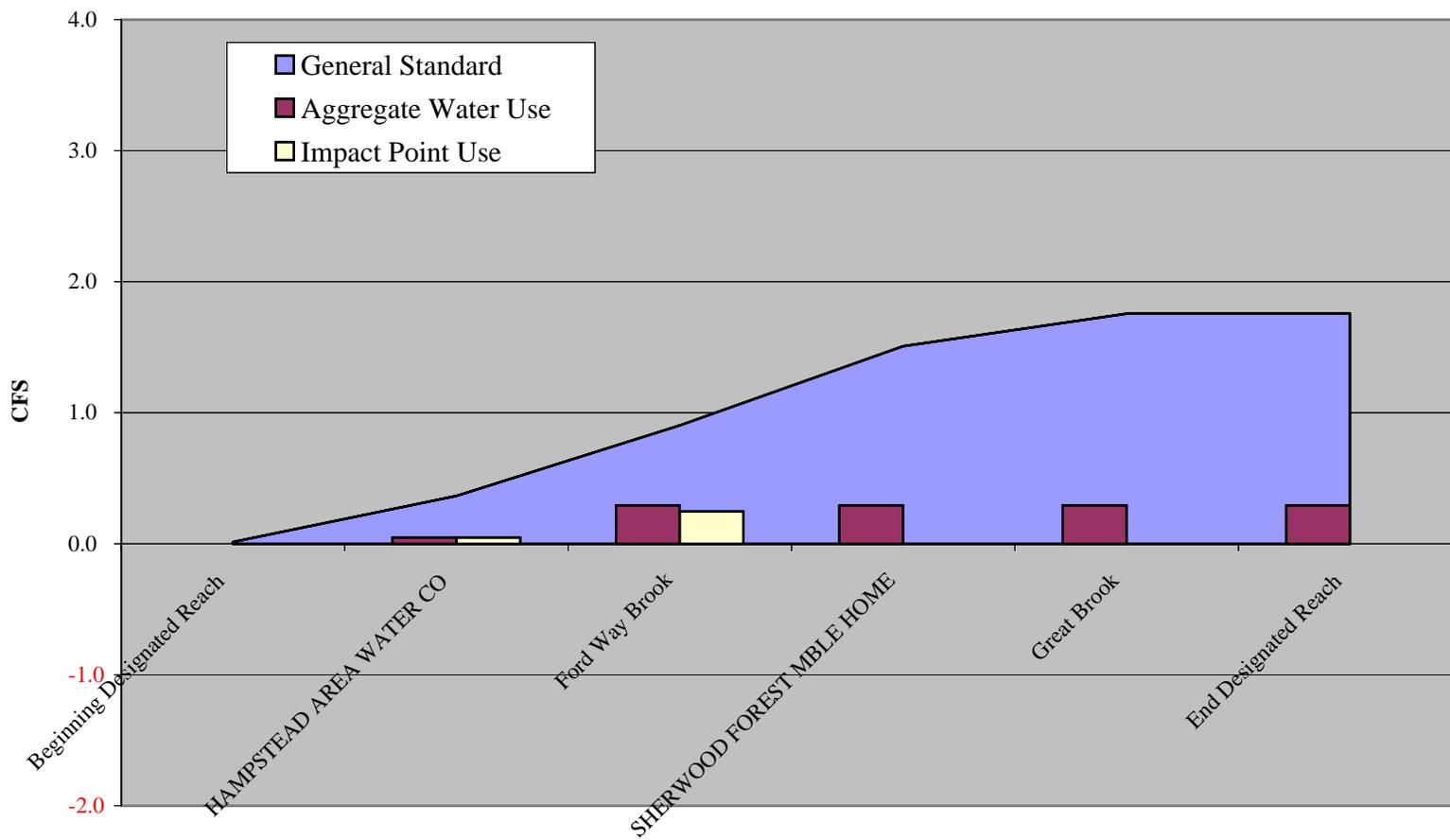
September 2004 Exeter



October 2004 Exeter



November 2004 Exeter



December 2004 Exeter

