

**WATER AUDITS and LOSS REDUCTION REPORT  
2013**

Water audits are conducted to determine the amount of water lost from a distribution system due to leakage. A comprehensive audit can provide the water system with a detailed profile of the distribution system and the water uses allowing for more effective management of the resource and infrastructure.

Water audits are usually required for water systems serving greater than 10,000 people and are required as a condition of the water system's Water Appropriation and Use Permit. Audits are completed annually and report on the previous year's water production. Any reported water loss greater than 10% triggers submission of a water loss reduction plan.

The State of Maryland has 31 water systems serving a population greater than 10,000 people. For calendar year 2013, 28 of these systems completed an audit and 61% of the systems reported water loss below 10%, while 39% reported more than 10% water loss.

System	PWSID*	Population	2013 Loss	Water Loss Reduction Plan
Aberdeen	012-0001	16,200	5.34%	N
Annapolis	002-0001	35,000	9.49%	N
Baltimore City	030-0002	1.6M	-----	No WAP**
Bowie	016-0002	25,000	9.80%	N
Broad Creek (AA DPW)	002-0004	22,479	2.75%	N
Cambridge	009-0002	15,000	8.85%	N
Chapel Hill	012-0002	13,152	6.00%	N
Crofton-Odenton (AA DPW)	002-0008	62,986	9.46%	N
Cumberland	001-0008	23,600	26.17%	No WAP**
Easton	020-0003	11,760	7.81%	N
Elkton	007-0011	12,458	21.00%	Y
Frederick	010-0015	54,000	4.50%	N
Freedom District	006-0002	23,687	14.53%	Y
Frostburg	001-0011	11,000	8.51%	N
Fort George G. Meade	002-0012	50,001	0.00%	No metering
Glen Burnie, Broadneck (AA DPW)	002-0017	239,447	8.27%	N
Hagerstown	021-0010	88,000	21.97%	Y
Harford County	012-0016	104,567	8.8%	N
Havre de Grace	012-0012	14,000	18.52%	Y
Howard County	013-0002	247,000	-----	No WAP**
Lexington Park	018-0007	39,056	3.0%	N
MD American Water Co.	012-0003	13,200	17.50%	Y
New Design	010-0030	40,241	10.39%	Y
Ocean City	023-0003	30,000	---	No Permit Condition
Ocean Pines	023-0005	11,800	16.0%	Y

Patuxent Naval Air Station (NAWCAD)	018-0022	22,000	0.00%	No metering
Rockville	015-0003	46,500	9.5%	N
Salisbury	022-0004	30,343	16.50%	Y
Waldorf	008-0049	70,640	5.45%	N
Westminster	006-0015	35,256	22.29%	Y
WSSC	015-0005	1.8M	17.14%	Y

Table 1 Water 2013 Audit Submission Summary

\*Public Water System ID Number. Each public water system has a PWISD and they are used for Safe Drinking Water Act reporting and compliance purposes.

\*\* Water Appropriation and Use Permit