

Groundwater Permits Draft 2017 Summary

Directors of Utilities Committee
February 7, 2017

Groundwater Permits

2014

Permit Count	Permit Activity
177	Total permits
163	Active Permits - Issued
3	Certificates of Groundwater Rights
3	Systems with Unrestricted Withdrawals
8	Active Permit - Pending Issuance

2014 Permitted Withdrawals (million gallons per day, MGD)

Water Use Category	MGD
Public Water Supply	65.650
Commercial	2.084
Agriculture	0.767
Industrial	74.099
Irrigation	1.167
Dewatering	0.233
Mixed Use	3.340
Total	147.339

Includes active permits pending issuance and Certificates of Groundwater Rights. Does not include estimates for unrestricted withdrawals (Navy). "Mixed Use" category includes permitted withdrawals for "Public Water Supply" and at least one other use water use category.

2017 (Draft Summary)

Permit Count	Permit Activity
248	Total Active Permits
240	Permits Issued
3	Permits Issued to Systems with Unrestricted Withdrawals
5	Pending Issuance

2017 Permitted Withdrawals (million gallons per day, MGD)

Water Use Category	MGD
Public Water Supply	48.710
Commercial	1.490
Agriculture	0.927
Industrial	47.643
Irrigation	1.267
Dewatering	0.233
Mixed Use	3.934
Total	104.204

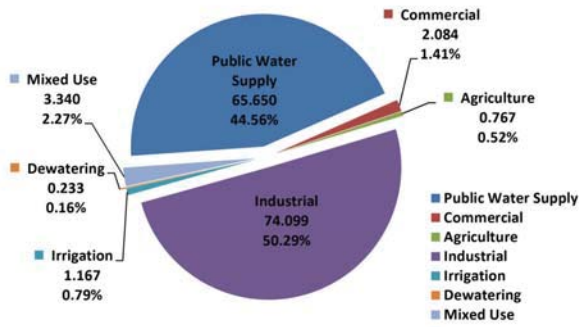
Includes active permits pending issuance and Certificates of Groundwater Rights. Does not include estimates for unrestricted withdrawals (Navy). "Mixed Use" category includes withdrawals permitted for "Public Water Supply" and one or more of the other use water use categories.

Groundwater Permits

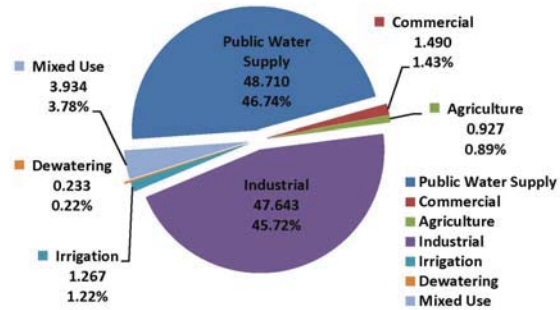
2014

2017 (Draft Summary)

2014 Permitted Withdrawals (MGD)



2017 Permitted Withdrawals (MGD)



"Mixed Use" includes withdrawals permitted for public water system use and one or more other uses.

2014

Source Aquifer	Water Use Category	Permit Count	Total Permitted Withdrawals (MGD)
Columbia	Industrial	1	0.043
	Industrial	*1	0.062
	Irrigation	2	0.091
	Irrigation	1	unrestricted (Navy)
	Dewatering	1	0.233
Columbia & Yorktown-Eastover	Public Water System	1	0.334
	Public Water System	1	unrestricted (Navy)
	Irrigation	3	0.268
Yorktown-Eastover	Mixed Use	1	0.116
	Industrial	8	0.256
	Agriculture	2	0.120
	Irrigation	5	0.252
	Irrigation	1	unrestricted (Navy)
St. Mary's-Choptank	Public Water System	1	0.027
Piney Point	Public Water System	8	0.823
	Public Water System	3	(pending) 0.088
Chickahominy & Piney Point	Public Water System	1	(pending) 0.043
	Industrial	1	0.059
Aquia	Public Water System	1	0.097
Virginia Beach	Public Water System	1	0.093
Virginia Beach	Mixed Use	1	0.075
Potomac	Public Water System	65	48.673
	Public Water System	3	(certificates) 15.424
	Public Water System	2	(pending) 0.055
	Mixed Use	22	3.115
	Mixed Use	1	(pending) 0.026
	Industrial	18	73.623
	Industrial	*1	0.055
	Commercial	2	1.960
Commercial	1	(pending) 0.124	
	Agriculture	13	0.646
	Irrigation	5	0.555
Total:		177	147.339

*The limits of this permit apportion withdrawals between the Columbia and Potomac aquifers.

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	Irrigation	2	0.108
	Irrigation	1	unrestricted (Navy)
	Dewatering	1	0.233
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	Agriculture	2	0.120
	Irrigation	5	0.252
	Irrigation	1	unrestricted (Navy)
St. Mary's-Choptank	Public Water System	1	0.027
Chickahominy-Piney Point	Public Water System	1	(pending) 0.043
	Industrial	1	0.059
Piney Point	Public Water System	9	0.835
	Public Water System	2	(pending) 0.051
	Mixed Use	1	(pending) 0.036
	Industrial	1	0.059
Virginia Beach	Public Water System	1	0.093
	Mixed Use	1	0.075
Aquia	Public Water System	1	0.097
	Industrial	1	0.043
Potomac & Columbia	Industrial	1	0.117
Potomac & Piney Point	Industrial	1	0.048
Potomac, Piney Point, & Aquia	Mixed Use	1	0.024
Potomac & Aquia	Public Water System	2	0.239
	Mixed Use	1	0.010
Potomac	Public Water System	73	44.206
	Mixed Use	23	3.621
	Mixed Use	1	(pending) 0.026
	Industrial	18	46.970
	Commercial	3	1.490
	Agriculture	12	0.628
	Irrigation	5	0.555
Not determined	Public Water System	50	2.726
	Mixed Use	4	0.084
	Industrial	3	0.106
	Agriculture	1	0.178
	Irrigation	2	0.121
Total:		248	104.203