



# 20-Year Permit Renewal Application

## A. Facility Information

**Important:** When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



### 1. Permittee Contact Information:

Town of Ashland - Water Department		
Facility Name		
20 Ponderosa Rd		
Street Address		
Ashland	MA	01721
City	State	Zip Code
David Manugian / DPW Director	508-532-7941	
Contact Person Name/Title	Phone #	
508-881-0112	dmanugian@ashlandmass.com	
Fax #	Email	
9P2-3-14-014.02	Concord River Basin	
Water Management Act Permit #	Watershed	

### 2. Consultant Contact:

Haley and Ward, Inc		
Consultant Company Name		
63 Great Road, Suite 200		
Street Address		
Maynard	MA	01754
City	State	Zip Code
Gregory J. Eldridge / V.P.	978-648-6025	
Contact Person Name/Title	Phone #	
978-648-6068	geldridge@haleyward.com	
Fax #	Email	

### 3. Existing Permit and Registration Information

Complete the following table for your existing Water Management registration(s) and permit(s).

Watershed Name(s)	Registration(s)	Permit(s)	Total Authorized Volume(s)
Concord River Basin	31401401	9P2-3-14-014.02	164.25 mgd + 182.5 mgd for Hopkinton
Watershed	Registration #	Permit #	
	1.23	0.45 + 0.5 for Hopkinton	
	Registered Volume (mgd)	Year 20 Permit Volume (mgd)	
Watershed	Registration #	Permit #	
	Registered Volume (mgd)	Year 20 Permit Volume (mgd)	Total Authorized Volume
Watershed	Registration #	Permit #	
	Registered Volume (mgd)	Year 20 Permit Volume (mgd)	Total Authorized Volume



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## B. Water Withdrawal Information

1. Is this a public water supply?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, PWS ID #:	<u>3014000</u>
			PWS ID #
2. Number of permitted withdrawal points:		<u>3</u>	
Name and type of withdrawal points:		Groundwater (G)	Surface Water (S)
		DEP Source ID #	Location (Street/Town)
		(if applicable)	
(a) Howe Street Well #6	<input checked="" type="checkbox"/> G <input type="checkbox"/> S	<u>3014000.07G</u>	<u>Howe Street, Ashland</u>
(b) Howe Street Well #7	<input checked="" type="checkbox"/> G <input type="checkbox"/> S	<u>3014000.08G</u>	<u>Howe Street, Ashland</u>
(c) Howe Street Well #8	<input checked="" type="checkbox"/> G <input type="checkbox"/> S	<u>3014000.09G</u>	<u>Howe Street, Ashland</u>
(d)	<input type="checkbox"/> G <input type="checkbox"/> S		
(e)	<input type="checkbox"/> G <input type="checkbox"/> S		
(f)	<input type="checkbox"/> G <input type="checkbox"/> S		
(g)	<input type="checkbox"/> G <input type="checkbox"/> S		

Photocopy this page and attach if you have more than seven withdrawal points.

3. Primary use category for this water withdrawal:

Public Water Supply	<input checked="" type="checkbox"/>	Commercial	<input type="checkbox"/>	Industrial	<input type="checkbox"/>
Agriculture	<input type="checkbox"/>	Cranberry	<input type="checkbox"/>	Golf	<input type="checkbox"/>
Other (please describe)	<input type="checkbox"/>	_____			

4. For public water suppliers, are you using Department of Conservation and Recreation (DCR) Office of Water Resources water needs forecasts?

Yes  No

Other (please describe): \_\_\_\_\_

5. For seasonal water users, have the number of days of operation for your water withdrawal changed from what is on your current permit?

Yes  No

If yes, number of days of operation on current permit: \_\_\_\_\_ # Days

Number of days of operation requested on renewed permit: \_\_\_\_\_ # Days

Please note that if there is an increase in total withdrawal volume, then a full permit application must be filed for the increase.

6. Permit length requested (number of years): 20 # Years

Permits cannot extend beyond the end of the 20-year permit cycle for your watershed. See the attached Permit Schedule for the watershed permitting and end date schedule.



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## B. Water Withdrawal Information (continued)

### Wastewater Discharge

7. Where will the water withdrawn be discharged?

85% will be discharged to a public sewer system.

Source for this data is from the 2005 Vollmer Comprehensive Wastewater Management Plan  
Sewer System Name \_\_\_\_\_

12.25% will be discharged to on-site disposal systems.

2.75% will be discharged to another alternative (please describe).

Trucking the waste water discharge - NYACOL - 19.185 MGY in 2014-See Waste Water Nyacol for Data.

8. Is some fraction of the water withdrawn to be discharged out of this watershed (include ocean discharge if appropriate)?

Yes     No    If yes, what fraction of your total discharge and to which watersheds?

85% will be discharged to the Massachusetts Coastal Basin  
Watershed

      % will be discharged to the \_\_\_\_\_  
Watershed

      % will be discharged to the \_\_\_\_\_  
Watershed

      % will be discharged to the \_\_\_\_\_  
Ocean discharge

9. Is there an NPDES discharge permit?     Yes     No    \_\_\_\_\_  
NPDES Permit #

What is the authorized NPDES daily discharge volume? \_\_\_\_\_  
Gallons per day

Is the discharge volume metered?     Yes     No

What is the location of the discharge point? \_\_\_\_\_  
Discharge point location

10. Are there groundwater discharge permit(s)?     Yes     No    \_\_\_\_\_  
GW Discharge Permit #

What is the authorized daily discharge volume? \_\_\_\_\_  
Gallons per day

Is the discharge volume metered?     Yes     No

What is the location of the discharge point? \_\_\_\_\_  
Discharge point location

Please attach copies of any NPDES or groundwater discharge permits.



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## C. Special Permit Conditions

Below is a list of special conditions that are often included in Water Management permits.

- Check all special permit conditions that appear in your Water Management permit;
- Provide a brief description how you have complied with the conditions; or
- If there have been unique circumstances that have affected your compliance with the conditions during the past five years, provide that information; and
- Attach additional sheets or additional information as needed.

Maximum Authorized Daily Withdrawals from each Withdrawal Point

Well#6 - 0.86 MGD, Well#7 - 2.16 MGD, Well#8 - 2.16 MGD withdrawal limits have been complied through a computer based control system that records water withdrawals from each raw water flow meter.

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Zone II Delineation (for Public Water Supplies only)

Zone II ID - 192, Department records show that Howe street wells #6, #7 and#8 have a DEP approved Zone II Delineation. Therefore, no further Zone II work is required as a condition of this permit. See Source Protection - Zone II in the "2014 ASR" document Pages 17,18.

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Wellhead Protection (for Public Water Supplies only)

Attached is the "Groundwater Protection" Map.

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Conservation

Please attach a copy of your Water Conservation Plan and provide a brief description of how the conservation plan has been implemented.

- For municipal public water suppliers, compliance with your conservation conditions is documented by completing the Commonwealth of Massachusetts Water Resources Commission Water Conservation Questionnaire for Public Water Suppliers, revised: March 11, 2008, which can be found on the MassDEP Website at <http://www.mass.gov/dep/water/laws/outline.htm>.

See attached - Ashland Water Conservation Guide document for Town's implementation of Water restriction guidelines and the Water Conservation Questionnaire.

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Resource Monitoring - please check all that apply:

Streamflow     Wetlands     Pond or Lake     Groundwater

Other (please describe):

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## C. Special Permit Conditions (continued)

- Residential Gallons per Capita Day Performance Standard (for Public Water Supplies only)

- Unaccounted-for-Water Performance Standard (for Public Water Supplies only)

- Summer Limits on Nonessential Outdoor Water Use

Use of wells 7&8 are restricted if reservoir levels drop below 295.35' from June 1 to August 31. Water restrictions are in place when the reservoir drops below 295.85'.

- Baseline Withdrawal Volumes (for Public Water Supplies only)

- Reporting Raw and Finished Water Volumes

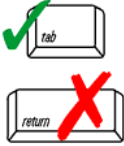
Total Raw water pumped in the year 2014 is 695.275 mgd, Finished water -2014 - 642.559 mgd - Per the 2014 ASR. Compliance is maintained through recording of 'raw water' and 'finish water' meter readings by the treatment plant computer based SCADA system

- Other



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## D1. Summary of 5-Year Historic Withdrawal Volumes

1. What is your current authorized withdrawal volume in this watershed?  $\frac{1.23}{\text{Registered Volume (mgd)}} + \frac{0.95}{\text{Permit Volume (mgd)}} = \frac{2.18}{\text{Total Authorized (mgd)}}$

2. Fill in the total monthly historic withdrawals for the past five years in million of gallons (MG).  
NOTE 100,000 gallons = 0.10 MG.

Calendar Year	January	February	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Annual Total
2014	44.989	46.066	51.822	53.019	62.617	72.906	76.718	69.905	63.238	53.499	52.01	48.86	695.275
2013	55.485	46.295	51.552	52.031	66.175	67.826	74.74	73.881	61.957	62.824	42.403	34.848	690.017
2012	49.814	46.658	50.009	52.488	61.259	66.799	80.031	67.537	62.198	56.649	53.05	52.298	698.791
2011	52.886	46.267	49.633	54.877	61.042	65.936	77.478	73.725	63.887	58.017	50.137	54.971	709.05
2010	58.949	52.803	58.099	59.654	74.562	74.118	74.388	58.998	56.422	53.696	47.614	47.417	716.7

3. If your withdrawals have exceeded your total authorized withdrawal, or if you can identify unique circumstances that have affected your withdrawals during the past five years, please provide that information in the space below.

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## D2. 20-Year Projection of Withdrawal Volume

- Fill in the projected daily average water withdrawal in millions of gallons in Column 2.  
NOTE: 100,000 gallons = 0.10 MG
- In Column 3, fill in the number of **days you expect to operate**. For **year-round withdrawals**, enter 365 days. For **seasonal withdrawals**, multiply the number of months that you will operate each year by 30 to get the days of operation (e.g., a golf course that irrigates during April, May, June, July, August and September would enter 6 months of operation x 30 days = 180 days of operation). Seasonal withdrawers must also complete Question 6 on page 8.
- Multiply the **average daily water withdrawal** (Column 2) by the **days of operation** (Column 3) to get the **total annual water withdrawal**. Enter the number in Column 4.

	(1) Calendar Year	(2) Average Daily Withdrawal Volume (mgd)	(3) Days of Operation	(4) Total Annual Water Withdrawal (mgy)
	2016	2.7745	366	807.03
	2017	2.7913	365	812.444645
	2018	2.8081	365	820.0642899
	2019	2.8249	365	827.6839349
<b>Years 1-5</b>	2020	2.8417	366	837.5920828
	2021	2.8585	365	842.9232249
	2022	2.8753	365	850.5428698
	2023	2.8921	365	858.1625148
	2024	2.9089	366	868.1541657
<b>Years 6-10</b>	2025	2.9257	365	873.4018047
	2026	2.9425	365	881.0214497
	2027	2.9572	365	887.6886391
	2028	2.9719	366	896.8061183
	2029	2.9866	365	901.0230178
<b>Years 11-15</b>	2030	3.0013	365	907.6902071
	2031	3.0160	365	914.3573964
	2032	3.0307	366	923.5479408
	2033	3.0454	365	927.6917751
	2034	3.0601	365	934.3589645
<b>Years 16-20</b>	2035	3.0748	365	941.0261538



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## D2. 20-Year Projection of Withdrawal Volume (cont.)

4. The projected average daily withdrawal volume during Years 1-5, Years 6-10, Years 11-15 and Years 16-20 of the permit period is shown in the Table above.

Average daily withdrawal volumes:	<u>2.8081</u>	<u>2.8921</u>	<u>2.9719</u>	<u>3.0454</u>
	Years 1-5	Years 6-10	Years 11-15	Years 16-20

5. If part of this volume is **registered**, subtract the registered volume from the average daily withdrawal volumes for Years 1-5, Years 6-10, Years 11-15 and Years 16-20.

<u>2.8081</u>	-	<u>1.23</u>	=	<u>1.5781</u>
Average daily withdrawal volume for Years 1-5		Registered volume		Requested permit volume for Years 1-5
<u>2.8921</u>	-	<u>1.23</u>	=	<u>1.6621</u>
Average daily withdrawal volume for Years 6-10		Registered volume		Requested permit volume for Years 6-10
<u>2.9719</u>	-	<u>1.23</u>	=	<u>1.7419</u>
Average daily withdrawal volume for Years 11-15		Registered volume		Requested permit volume for Years 11-15
<u>3.0454</u>	-	<u>1.23</u>	=	<u>1.8154</u>
Average daily withdrawal volume for Years 16-20		Registered volume		Requested permit volume for Years 16-20

### For Seasonal Withdrawals operating less than 12 months per year

6. Seasonal withdrawals are often made at varying rates over the course of the season or year. For example, golf courses, ski areas or other seasonal suppliers do not need to withdraw water year round.

If your withdrawal has large seasonal variations, please show the anticipated total monthly withdrawals for a typical year in the space below. The numbers you use can be actual projections for one year during the permit period. NOTE: 100,000 gallons = 0.10 MG

Jan.    Feb.    Mar.    Apr.    May    Jun.    Jul.    Aug.    Sep.    Oct.    Nov.    Dec.

If you expect the seasonal variation in your withdrawal to change during the permit period, or if there is any unique aspect to the pattern of your withdrawal, please provide that information in the space below.

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## E. Certification

I certify, under penalty of law, that this application and all attachments were prepared under my supervision, in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted in this application, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Title

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date