

# Assessments of Public Water Supply Sources - MOULTONBOROUGH

This report is a summary of NH Department of Environmental Services' assessments of the vulnerability of each source used by the public water system(s) located in this municipality. The sources listed here are grouped first by the type of public water system and then by the system itself. Each source was ranked according to a number of criteria; a vulnerability ranking is given for each criterion that applies to the source. *An explanation of each column in the report can be found on the last page.*

Source Number	Source Description	Source Type	Date Assessment Completed	Number of Vulnerability Rankings			Susceptibility Ranking Criteria												
				Highs	Mediums	Lows	Detects	Well/Intake	KCSs	PCSs	Highways/RRs	Pesticides	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius
<b>System Type</b> <input type="checkbox"/> C <b>C=Community; P=Non-Transient, Non-Community; N=Transient</b>																			
<b>EPAID</b> <input type="text" value="1612010"/> <b>System Name:</b> <input type="text" value="PARADISE SHORES"/>																			
005	BRW	G	3/18/2002	1	2	9	L	L	L	L	M	L	H	L	M	L	L	L	
006	BRW	G	3/18/2002	3	3	6	H	L	L	M	H	L	H	M	M	L	L	L	
007	BRW	G	3/18/2002	3	3	6	H	L	L	M	H	L	H	M	M	L	L	L	
<b>EPAID</b> <input type="text" value="1612030"/> <b>System Name:</b> <input type="text" value="FAR ECHO HARBOR"/>																			
001	BRW	G	8/10/2000	2	1	9	L	L	H	L	L	L	M	L	L	L	L	H	
002	INF	G	7/5/2001	3	0	9	L	L	H	L	L	L	H	L	L	L	L	H	
<b>EPAID</b> <input type="text" value="1612040"/> <b>System Name:</b> <input type="text" value="WEST POINT"/>																			
001	BRW	G	8/8/2000	1	2	9	L	L	L	L	L	L	M	L	M	L	L	H	
003	BRW	G	6/3/2005	1	2	9	L	L	L	L	L	L	M	L	M	L	L	H	
<b>EPAID</b> <input type="text" value="1612130"/> <b>System Name:</b> <input type="text" value="SUISSEVALE AT WINNIPESAUKEE"/>																			
011	PARADISE SHORES	E	12/3/2001	0	0	0													
<b>EPAID</b> <input type="text" value="1612170"/> <b>System Name:</b> <input type="text" value="JONATHANS LANDING CONDOS"/>																			
001	BRW	G	10/17/2002	0	1	11	L	L	L	L	L	L	M	L	L	L	L	L	
002	BRW	G	10/17/2002	0	1	11	L	L	L	L	L	L	M	L	L	L	L	L	
003	BRW	G	10/17/2002	0	1	11	L	L	L	L	L	L	M	L	L	L	L	L	
<b>EPAID</b> <input type="text" value="1612200"/> <b>System Name:</b> <input type="text" value="LANDS END"/>																			



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				Highs	Mediums	Lows	Detects	Well/Intake	KCSS	PCSS	Highways/RRs	Pesticides	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	Trophic status
001	BRW	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
<b>EPAID</b>	1613010	<b>System Name:</b> LONG ISLAND BRIDGE CMGD /1/55																		
001	BRW	G	8/17/2001	1	0	8	L	L	L	H	L	L	L			L	L			
<b>EPAID</b>	1617020	<b>System Name:</b> CAMP TECUMSEH																		
002	BRW	G	1/18/2002	0	0	9	L	L	L	L	L	L	L			L	L			
<b>EPAID</b>	1617030	<b>System Name:</b> CAMP WINAUKEE																		
002	BRW	G	7/30/2001	1	0	8	L	L	L	H	L	L	L			L	L			
<b>EPAID</b>	1617050	<b>System Name:</b> CAMP ROBINDEL PROGRAM OFFICE																		
001	BRW	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
002	BRW	G	8/17/2001	1	0	8	L	L	L	H	L	L	L			L	L			
004	BRW	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
<b>EPAID</b>	1617070	<b>System Name:</b> BALD PEAK COLONY CLUB/CLUB HSE																		
001	BRW	G	11/20/2001	2	0	7	L	L	L	H	L	H	L			L	L			
003	BRW	G	7/30/2001	2	0	7	L	L	L	H	L	H	L			L	L			
005	BRW	G	7/30/2001	2	0	7	L	L	L	H	L	H	L			L	L			
<b>EPAID</b>	1617080	<b>System Name:</b> CASTLE IN THE CLOUDS																		
003	BRW	G	7/30/2001	1	0	8	L	L	L	H	L	L	L			L	L			
004	BRW	G	7/30/2001	1	0	8	L	L	L	H	L	L	L			L	L			
<b>EPAID</b>	1617090	<b>System Name:</b> ARCADIA REC HALL																		
001	BRW	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
<b>EPAID</b>	1617100	<b>System Name:</b> ARCADIA CAMPGROUND																		
002	BRW	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
<b>EPAID</b>	1617120	<b>System Name:</b> BEARS PINE WOODS CAMPGROUND																		
001	BRW	G	7/30/2001	1	0	8	L	L	L	H	L	L	L			L	L			

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EPAID 1617130	System Name: CAMP QUINEBARGE /SOUTH	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
001	BRW																			
EPAID 1617150	System Name: DEER HILL	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
001	BRW																			
EPAID 1617160	System Name: BALD PEAK COLONY CLUB /DORM	G	7/30/2001	2	0	7	L	L	L	H	L	H	L			L	L			
001	BRW																			
EPAID 1617180	System Name: LONG ISLAND BRIDGE CMGD/56/105	G	7/30/2001	1	0	8	L	L	L	H	L	L	L			L	L			
001	BRW																			
EPAID 1617190	System Name: CAMP ROBINDEL DINING HALL	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
001	BRW																			
EPAID 1617200	System Name: CAMP ROBINDEL STABLES	G	8/17/2001	1	0	8	L	L	L	H	L	L	L			L	L			
001	BRW																			
EPAID 1617210	System Name: MOULTONBOROUGH PLAYGROUND	G	2/1/2001	3	0	6	H	H	L	H	L	L	L			L	L			
001	BRW																			
EPAID 1618010	System Name: WOODSHED RESTAURANT	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
001	BRW																			
EPAID 1618050	System Name: BERRY POND MOTEL	G	9/21/2000	2	0	7	L	L	L	H	H	L	L			L	L			
002	BRW																			
EPAID 1618110	System Name: GRILL 25 AND PUB	G	11/20/2001	2	0	7	L	L	L	H	H	L	L			L	L			
001	BRW																			
EPAID 1618150	System Name: RODEWAY INN	G	2/1/2001	5	0	4	H	H	H	H	H	L	L			L	L			
001	BRW																			

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				Highs	Mediums	Lows	Detects	Well/Intake	KCSs	PCSs	Highways/RRs	Pesticides	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	Trophic status
EPAID 1618220	System Name: CENTER HARBOR DINER	G	11/20/2001	3	0	6	L	L	H	H	H	L	L			L	L			
001	BRW																			
EPAID 1618230	System Name: DEEPWOOD LODGES	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
001	BRW																			
EPAID 1618270	System Name: CAVALIERS COVE	G	11/20/2001	2	0	7	L	L	L	H	H	L	L			L	L			
001	BRW																			
EPAID 1618280	System Name: DILLINGERS RESTAURANT	G	9/19/2002	3	0	6	L	L	H	H	H	L	L			L	L			
001	BRW																			
EPAID 1618330	System Name: NEW VILLAGE KITCHEN	G	11/20/2001	2	0	7	L	L	L	H	H	L	L			L	L			
001	BRW																			
EPAID 1618340	System Name: RIDGEWOOD COUNTRY CLUB	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
001	BRW																			
EPAID 1618350	System Name: BAD MOOSE CAFE	G	9/26/2000	3	0	6	L	L	L	H	H	L	H			L	L			
001	BRW																			
EPAID 1619010	System Name: MOULTONBOROUGH LIONS CLUB	G	7/30/2001	2	0	7	L	L	L	H	H	L	L			L	L			
001	BRW																			
EPAID 1619020	System Name: GENEVA POINT CTR CARETAKER RES	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
002	BRW																			
EPAID 1619030	System Name: GENEVA POINT CTR /GIBBES HOUSE	G	11/20/2001	1	0	8	L	L	L	H	L	L	L			L	L			
001	BRW																			
EPAID 1619040	System Name: GENEVA POINT CTR/RED HOUSE	G	7/30/2001	3	0	6	L	H	L	H	L	L	H			L	L			
001	BRW																			



## Explanatory Notes

*Abbreviations used in the following notes:*

**HAC** = hydrologic area of concern for a surface water source. For small or undeveloped watersheds, the HAC includes the entire watershed. For all other surface sources, the HAC includes only a portion of the watershed close to the water system intake.

**WHPA** = wellhead protection area for a groundwater source. For community and non-transient systems, the WHPA is the area from which water is expected to flow to the well under extremely dry conditions. For transient systems, the WHPA is the area within 500 ft of the well.

**EPAID:** Each public water system is identified by a 7-digit federal ID number.

**Source number:** Each source is further identified by a 3-digit number.

**Source description:** An abbreviated description of the source from NHDES's database. (Some common abbreviations: BRW=bedrock well; GPW=gravel-pack well; GRW=gravel well; DUG=dug well; PTW=point well; SPR=spring; ART=artesian well; INF=infiltration well.)

**Source type:** G=groundwater (well or spring); S=surface water (lakes, reservoirs, ponds, rivers); E = water purchased from another system (*Purchased sources are not assessed per se, but the original sources used by the seller are assessed*).

**Date Assessment Completed:** The date NHDES completed the process of reviewing available data, collecting new data, and entered the assessment information into its database.

**Number of Vulnerability Rankings:** The number of High, Medium, and Low rankings for that source listed in the columns to the right. Each criterion is explained below. Some criteria do not apply to all types of sources or systems.

**Detects:** Confirmed detections of certain contaminants (after treatment) of suspected human origin, not including disinfection byproducts. L = none detected at or above trigger levels in the most recent round of sampling. There is no M ranking for this criterion. H = contaminants were detected at or above trigger levels.

**Well/Intake:** The integrity of the well (if a groundwater source) or the intake (if a surface water source). L = no unresolved deficiencies with the well or intake identified in the most recent sanitary survey. There is no M ranking for this criterion. H = there are unresolved deficiencies.

**KCSs:** Known contamination sources in the vicinity of the source. This includes any site known to DES where contaminants are known or very likely to have been released to the ground, and where remediation is not complete. L = none present in the WHPA (for groundwater sources) or in the HAC (for surface water sources). M (for community and non-transient systems) = one or more KCSs in the WHPA or HAC but not within 1,000 ft of the well or intake. *There is no M ranking for transient systems.* H = one or more KCSs within the WHPA or HAC within 1,000 ft of the well or intake.

**PCSs:** Potential contamination sources in the vicinity of the source. This includes any site known to DES where contaminants are known or very likely to be used in significant quantities, but where there are no known releases to the ground. L (for community and non-transient systems) = no PCSs within 1,000 ft of the well in the WHPA (for groundwater sources) or none present in the HAC (for surface water sources). L (for transient systems) = none present in the WHPA. M (for groundwater sources serving community and non-transient systems) = 10 or fewer PCSs within 1,000 ft of the well in the WHPA. M (for surface water sources) = one or more PCSs in the HAC but not within

1,000 ft of the intake. *There is no M ranking for transient systems.* H (for groundwater sources serving community and non-transient systems) = more than 10 PCSs within 1,000 ft of the well in the WHPA. H (for transient sources) = one or more PCSs in the WHPA. H (for surface water sources) = one or more within 1,000 ft of the intake in the HAC.

**Highways/RRs:** The presence of numbered state highways or active railroads in the vicinity of the source. L = none present in the WHPA or HAC. M (for community and non-transient groundwater sources) = one or more in the WHPA but not within 1,000 ft of the well. M (for surface sources) = one or more in the HAC but not within 300 ft of the source water. *There is no M ranking for transient systems.* H (for transient sources) = one or more in the WHPA. H (for community and non-transient groundwater sources) = one or more in the WHPA within 1,000 ft of the well. H (for surface sources) = one or more in the HAC within 300 ft of the source water.

**Pesticides:** Whether or not pesticides have been routinely applied in the vicinity of the source. This is based on the presence of land parcels owned by registered pesticide applicators. L = no application areas in WHPA or HAC. M (for community and non-transient sources) = application site(s) in WHPA or HAC but not within 500 ft of the well or within 300 ft of the intake. *There is no M ranking for transient systems.* H = application site(s) within 500 ft of the well or within 300 ft of the intake.

**Septics:** The presence or density of septic systems and sewer lines in the vicinity of the source. L (for community and non-transient groundwater sources) = no septic systems or sewer lines located within 500 ft of the well, and fewer than 30 septic systems in the remainder of the WHPA. L (for surface sources) = no septic systems within 500 ft of surface water. L (for transient sources) = no septic systems or sewer lines within 75 ft of the well. M (for community and non-transient groundwater sources) = fewer than 10 septic systems and no sewer line located within 500 ft of well, and fewer than 30 septic systems in remainder of the WHPA. M (for surface sources) = low density of septic systems (lots averaging 2 acres or more) within 500 ft of surface water in the HAC. *There is no M ranking for transient systems.* H (for community and non-transient groundwater sources) = 10 or more septic systems or any sewer line within 500 ft of the well and/or high density of septic systems (more than 30) in the WHPA. H (for surface sources) = densely developed shoreline (lots averaging less than 2 acres) within 500 ft of surface water in the HAC. H (for transient sources) = one or more septic systems or sewer lines within 75 ft of the well.

**Urban Land Cover:** The percentage of urban land cover in the vicinity of the source, based primarily on satellite images. *This criterion does not apply to sources serving transient systems.* L = less than 10% of the WHPA or HAC is urban, and less than 10% of the WHPA within 1,000 ft of the well is urban. M (for community and non-transient groundwater sources) = less than 10% of WHPA is urban but 10% or more of the WHPA within 1,000 ft of the well is urban. M (for surface sources) = between 10% and 20% of HAC is urban. H (for community and non-transient groundwater sources) = 10% or more of WHPA is urban. H (for surface sources) = 20% or more of HAC is urban.

**Ag Land Cover:** The percentage of agricultural land cover in the vicinity of the source (in the WHPA or within 300 ft of surface water in the HAC), based primarily on satellite images. *This criterion does not apply to sources serving transient systems.* L = no ag land. M = less than 10% ag land. H = 10% or more ag land.

**Animals:** The presence of concentrations of 10 or more animal units in the vicinity of the source. L = none in the WHPA or (for a surface source) within 300 ft of surface water in the watershed. M (for community and non-transient groundwater sources) = one or more such farms in the WHPA but not within 1,000 ft of the well. M (for a surface source) = none within 300 ft of surface water in the HAC, but one or more within 300 ft of surface water in the watershed. *There is no M ranking for transient systems.* H = one or more in the WHPA within 1,000 ft of the well or (for a surface source) within 300 ft of surface water in the HAC.

**Lagoons:** The presence of wastewater treatment lagoons or spray irrigation sites in the vicinity of the source. L = none in the WHPA or (for a surface source) in the entire watershed. M (for community and non-transient groundwater sources) = one or more in the WHPA but not within 1,000 ft of the well. M (for a surface source) = none within 300 ft of surface water in the HAC, but one or more in the watershed. *There is no M ranking for transient systems.* H = one or more in the WHPA within 1,000 ft of the well or (for a surface source) within 300 ft of surface water in the HAC.

**Dry Discharge:** The presence of dry-weather stormwater discharge sites in the vicinity of the source. *Only a handful of surface sources were evaluated for such discharges; no discharges were found.*

**Sanitary Radius:** The presence of development not associated with the well within the sanitary radius (within 75 to 400 ft of the well). *Applies only to groundwater sources serving community and non-transient systems.* Of particular concern are sewer lines, septic systems, or storage of regulated substances in this area. L = no inappropriate land uses or practices. No medium ranking. H = inappropriate land uses or practices were discovered during the most recent sanitary survey, and have not been corrected.

**Trophic status:** The projected trophic (nutrient) status of the source as predicted by a computer model using a future land development scenario for the watershed. *This criterion applies only to 24 lakes, ponds, and reservoirs included in the phosphorus loading study.* L = oligotrophic (relatively good clarity and water quality with low algae population). M = mesotrophic (intermediate clarity, quality, and algae population). H = eutrophic