Assessments of Public Water Supply Sources - EPSOM

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.*

S				Da	Number of Vulnerability			Susceptibility Ranking Criteria													
Source Number		Source Description	Source	Date Assessment Completed	Rankings		De	Wel	_	P	Highw	Pes	Se	Urban L	Ag La	An	La	Dry di	Sanita	Troph	
umber			Type	ssment	Highs	Mediums	Lows	Detects	Well/Intake	KCSs	PCSs	Highways/RRs	Pesticides	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges		Trophic status
System Type C C=Community; P=Non-Transient, Non-Community; N=Transient																					
EPAID	D 0771010 System Name: EPSOM VILLAGE DISTRICT																				
001	GPW		G	10/28/2002	3	3	6	L	L	L	М	Н	M	Н	L	Н	L	L		М	
002	GPW		G	10/28/2002	3	0	9	Н	L	L	L	L	L	Н	L	Н	L	L		L	
EPAID	0771020	System Name: KINGS GRANT										•									
001	BRW		G	3/11/2005	1	2	9	L	L	L	L	Н	L	M	L	M	L	L		L	
002	BRW		G	3/11/2005	1	2	9	L	L	L	L	Н	L	M	L	М	L	L		L	
EPAID	0773010	System Name: K	INGSTOW	NE MOBILE H	IOME	E PA	RK														
002	BRW		G	9/28/2001	4	3	5	Н	L	М	L	Н	L	Н	Н	M	L	L		M	
003	BRW		G	9/28/2001	4	3	5	Н	L	M	L	Н	L	Н	Н	M	L	L		М	
004	BRW		G	9/30/2005	4	3	5	Н	L	M	L	Н	L	Н	Н	M	L	L		M	
EPAID	0773020	System Name:	COLBY	BROOK ES	ГАТЕ	S															
001	BRW		G	4/13/2000	6	1	5	Н	L	L	М	Н	L	Н	Н	Н	L	L		Н	
002	DUG		G	3/11/2005	5	1	6	L	L	L	М	Н	L	Н	Н	Н	L	L		Н	
EPAID	0774010	0774010 System Name: EPSOM HEALTHCARE CENTER																			
001	BRW		G	8/16/2001	4	3	5	L	L	Н	M	Н	L	M	M	Н	L	L		Н	
EPAID	0774020	System Name:	HEA	ARTLAND PLA	ACE																
001	BRW		G	8/16/2001	5	2	5	L	L	Н	М	Н	L	M	Н	Н	L	L		Н	

ဟ				Da	Num Vulne				Sus	ce	otibi	ility	Ran	king	Cri	teri	a		
Source	Source Description		ription	te Assessm Completed	Rankings		gs				High	Pe	S	AgL	4	7	Dry o	Sani	Trop
Number			е Туре	Date Assessment Completed	Highs	Mediums	SwoT	Well/Intake Detects	KCSs	PCSs	Highways/RRs	Pesticides	Septics	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	Trophic status
				# 	1S	ms	S	O			Rs	6	Over	Ver			ges	is	tus
EPAID	0774030	System Name:	ME	EADOW BRO	OK														
001	BRW		G	4/12/2000	3	2	7	L L	L	M	Н	L	H L	Н	M	L		L	
002	BRW		G	4/12/2000	3	2	7	L L	L	М	Н	L	H L	Н	M	L		L	
System T	ype N	C=Commu	ınity; P=Non-Transient,	Non-Comm	unity	N=	Tra	nsien	t										
EPAID	0776020	System Name:	EP	SOM SHOPP	ES														
001	BRW		G	9/26/2000	3	0	6	L L	Н	Н	Н	L	L		L	L			
EPAID	0776040	System Name:	WENDY	'S /DUNKIN D	ONU	TS													
001	BRW		G	10/12/2000	2	0	7	L L	L	Н	Н	L	L		L	L			
EPAID	0777010	System Name:	BLAKES E	BROOK CAME	PGRO	UNE)												
001	DUG	-	G	1/24/2002	2	0	7	L H	L	Н	L	L	L		L	L			
002	BRW		G	10/12/2000	2	0	7	L H	L	Н	L	L	L		L	L			
EPAID	0777020	System Name:	EPSOM V	ALLEY CAME	PGRO	UNE)												
001	BRW		G	7/23/2001	2	0	7	L L	L	Н	Н	L	L		L	L			
EPAID	0777030	System Name:	LAZY RI	VER CAMPIN	IG AR	EA													
001	BRW		G	10/12/2000	0	0	9	L L	L	L	L	L	L		L	L			
EPAID	0777040	System Name:	BLAKES	BROOK BATI	н но	JSE													
001	DUG		G	1/24/2002	1	0	8	L L	L	Н	L	L	L		L	L			
EPAID	0778010	System Name:	COUNTRY	CIRCLE RES	STAUI	RAN	Т												
002	BRW		G	10/12/2000	5	0	4	НН	Н	Н	Н	L	L		L	L			
EPAID	0778020	System Name:	L	LOUIES PIZZ	Ą														
001	BRW	-	G	7/23/2001	2	0	7	L L	L	Н	Н	L	L		L	L			
EPAID	0778040	System Name:	MCDON	IALDS RESTA	AURA	NT													
001	BRW	-	G	10/12/2000	3	0	6	L L	Н	Н	Н	L	L		L	L			

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Source		Source Descr	ription	Source	te Assessm Completed	Rankings			₩		High	Pe	S	Urban	AgL	A	יאַע	Sanit	Trop		
Number				e Type	Date Assessment Completed	Highs	Mediums	Lows	Detects	Well/Intake	KCSs	Highways/RRs	Pesticides	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagons	Sanitary radius	Trophic status	
EPAID 07	78050 S y	stem Name:	(CONCOR	RD ELKS LOD	GE 1	1210														
001 BR	RW			G	9/26/2000	2	0	7	L	L	L	Н	L	L			L	-			
EPAID 07	78060 Sy	stem Name:	ŀ	HAPPY F	AMILY REST	AUR	ANT														
001 BR	RW			G	6/13/2001	3	0	6	L	L	L	Н	L	Н			L	-			
EPAID 07	79010 Sy	stem Name:		CII	RCLE 9 RANG	СН															
001 DL	JG	_		G	10/12/2000	2	0	7	L	L	L	Н	L	L			L	-			
002 DL	JG			G	10/12/2000	1	0	8	L	L	L	l L	L	L			L	-			
EPAID 07	79020 Sy	stem Name:		EPS	SOM REST AF	REA															
001 BR	RW			G	10/12/2000	2	0	7	L	L	L	Н	L	L			L	-			
System Type	e P	C=Commu	nity; P=Non-Tra	nsient, l	Non-Commu	ınity	; N=	Tra	nsi	ent											
EPAID 07	75010 Sy	stem Name:		PATHFI	NDER ACADE	EMY I	LLC														
001 BR	RW			G	9/28/2001	4	1	7	L	L	L	Л Н	L	Н	L	Н	L	-	Н		

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