Assessments of Public Water Supply Sources - DERRY

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.*

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· ·	2			Da	Num Vulne				Sus	ce	otibilit	y R	ank	king	Cri	teri	a	
Source Number		Source Description	Source Type	Date Assessment Completed	Ran			Well/Intake	KCSs	PCSs	Pesticides Highways/RRs	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Trophic status
System '	Type C	C=Community; P=Non-Tra	ansient, N	Non-Comm	unity;	N=	Trans	ient	1									
EPAID	0611010	System Name:	DERI	RY WATER [DEPT													
004	MANCHES	STER WATER WORKS /LAKE MASSA	ABES E	12/3/2001	0	0	0											
EPAID	0612010	System Name:	PEU /O/	AKWOOD TE	RRAC	E												
502	DERRY W	ATER WORKS/LAKE MASSABESIC	MAN E	12/3/2001	0	0	0											
EPAID	0612020	System Name:	PEU /M	MAPLE HILL	ACRES	3												
005	BRW		G	8/3/2001	1	2	9 L	L	М	L	L L	Н	L	M	L	L	L	-
006	BRW		G	8/3/2001	1	2	9 L	L	M	L	L L	Н	L	M	L	L	L	-
EPAID	0612040	System Name:	BARKLA	AND ACRES	ASSO	С												
001	BRW		G	8/31/2000	2	1	9 L	L	L	L	L L	Н	L	M	L	L	H	1
002	2 BRW		G	8/31/2000	2	1	9 L	L	L	L	LL	Н	L	M	L	L	H	1
EPAID	0612050	System Name: MO	RNINGSIE	DE DRIVE WA	ATER A	ASS	SOC											
001	BRW		G	11/5/2001	2	1	9 L	L	L	L	M L	Н	Н	L	L	L	L	-
002	2 BRW		G	11/5/2001	2	1	9 L	L	L	L	M L	Н	Н	L	L	L	L	-
EPAID	0612070	System Name:	GL	EN RIDGE D	EV													
001			G	10/12/2000	1	3	8 L	L	L	L	M L	Н	L	M	L	L	١	1
002	2 BRW		G	10/12/2000	1	3	8 L	L	L	L	M L	Н	L	M	L	L	N	4
EPAID	0612080	System Name:	RED	FIELD ESTA	TES													

S			Da	Nur Vuln	nber erab				Sus	ce	otibi	lity	Ra	nk	ing	Cri	teri	a		
Source	Source Description	Source	e Ass Comp		nkin		1	M			High	Pe	3	Urbar	Ag L	7	7	Dry	Trophic Sanitary	
Number		e Type	Date Assessment Completed	Highs	Mediums	Lows	Detects	Well/Intake	KCSs	PCSs	Highways/RRs	Pesticides	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Trophic status Sanitary radius	
004	BRW	G	10/12/2000	1	2	9	L	L	L	M	L	L	Н	L	M	L	L		L	
007	BRW	G	10/12/2000	1	1	10	L	L	L	L	L	L	Н	L	M	L	L		L	
800	DREW WOODS INTERCONNECTION	E	12/3/2001	0	0	0														
EPAID	0612090 System Name:	Н	UBBARD HIL	L																
001	BRW	G	10/12/2000	1	3	8	L	L	L	L	M	L	Н	L	M	L	L		М	
002	BRW	G	9/15/2006	0	2	10	L	L	L	L	L		M	L	M	L	L		L	
003	BRW	G	10/12/2000	1	3	8	L	L	L	L	M	L	Н	L	M	L	L		M	
EPAID	0612110 System Name:	PEU /F	ARMSTEAD A	ACRI	ES															
001	BRW	G	8/3/2001	4	0	8	L	L	L	L	L	Н	Н	Н	Н	L	L		L	
EPAID	0612120 System Name:	ME	EADOWBROO	OK																
001	BRW	G	8/3/2001	3	0	9	L	L	L	L	L	Н	Н	L	Н	L	L		L	i
003	BRW	G	8/3/2001	2	0	10	L	L	L	L	L	L	Н	L	Н	L	L		L	
EPAID	0612130 System Name:	RICHA	ARDSON EST	ATE	S															
001	BRW	G	10/12/2000	0	2	10	L	L	L	L	M	L	L	L	M	L	L		L	
EPAID	0612140 System Name:	HI A	ND LO ESTA	TES																
001	BRW	G	10/12/2000	2	3	7	L	L	L	М	Н	L	Н	L	M	L	L		M	i
002	BRW	G	10/12/2000	2	3	7	L	L	L	М	Н	L	Н	L	M	L	L		М	
003	BRW	G	10/12/2000	2	3	7	L	L	L	М	Н	L	Н	L	M	L	L		М	
004	BRW	G	3/11/2005	2	3	7	L	L	L	M	Н	L	Н	L	M	L	L		M	
	0612150 System Name:	D	REW WOOD																	
	BRW	G	10/11/2000	1	5	6	L	L	L	М	M		Н		M	L	L		М	
	BRW	G	10/12/2000	1	5	6	L	L	_	М			Н		M	L	L		М	
	BRW	G	10/12/2000	1	4	7	L	L	L	М	М		Н		M	L	L		L	
	BRW	G	12/20/2001	1	3	8	L	L	L	L	L		Н		M		L		М	
	BRW	G	12/20/2001	1	2	9	L	L	L	L	L	L	Н		М		L		L	
007	BRW	G	12/20/2001	1	3	8	L	L	L	L	L	L	Н	L	M	M	L		M	

S			Da	Numb Vulner			S	usce	ceptibility Ranking Criteria											
Source	Source Desc	cription	te Ass Com		kings		×		High	Pe		Urbai	Ag L		Dry	Sani	Trol			
Number		е Туре	Date Assessment Completed	Highs	Mediums	Detects	KCSs Well/Intake		Highways/RRs	Pesticides	Septics	Urban Land Cove	Ag Land Cover	Animals	Dry discharges	Sanitary radius	Trophic status			
٦			#	hs	sms	5	6		Rs	Ö		over	Ver		ges	Sius	tus			
EPAID	0612160 System Name:	0612160 System Name: WOODLAND AT DERRY																		
001	BRW	G	8/13/2001	2	0 10	0 L	L	L L	L	L	Н	L	Н	L	_	L				
002	BRW	G	8/13/2001	1	1 10	0 L	L	L L	L	L	Н	L	М	L	-	L				
EPAID	0612170 System Name:	N	MAPLE HAVE	N																
002	BRW	G	10/12/2000	3	0 9	L	L	L L	Н	L	Н	L	Н	L	_	L				
003	BRW	G	10/12/2000	2	1 9	L	L	L L	Н	L	М	L	Н	L	-	L				
004	BRW	G	10/12/2000	3	0 9	L	L	L L	Н	L	Н	L	Н	L	-	L				
EPAID	0612190 System Name:	E	BIRCHFIELDS	3																
001	BRW	G	10/12/2000	3	1 8	L	L	L M	L	Н	Н	L	Н	L	_	L				
002	BRW	G	10/12/2000	3	1 8	L	L	L M	L	Н	Н	L	Н	L	-	L				
EPAID	0612210 System Name:	OLD	COACH VILL	AGE																
001	BRW	G	2/7/2002	1	2 9	L	L	L L	L	L	M	L	М	L	_	Н				
002	BRW	G	8/3/2001	1	1 10	0 L	L	L L	L	L	Н	L	М	L	- 1	L				
EPAID	0612220 System Name:	AL	JTUMN WOO	DS																
001	BRW	G	10/10/2002	1	1 10	0 L	L	L L	L	L	M	L	Н	L	_	L				
002	BRW	G	10/10/2002	1	1 10	D L	L	L L	L	L	М	L	Н	L	-	L				
EPAID	0612230 System Name:	RAN	D SHEPARD	HILL																
001	BRW	G	12/20/2001	3	0 9	L	L	L L	Н	L	Н	L	Н	L	-	L				
002	BRW	G	12/20/2001	3	0 9	L	L	L L	Н	L	Н	L	Н	L	-	L				
003	BRW	G	12/20/2001	2	2 8	L	L	L L	M	M	Н	L	Н	L	-	L				
EPAID	0612240 System Name:	V	VILLOW BENI	D																
001	BRW	G	3/15/2001	1	3 8	L	L	L L	Н	L	M	L	M	M	-	L				
EPAID	0613010 System Name: ANNIE OAKLEY MOBILE HOME PARK																			
	BRW	G	7/12/2000	3	3 6	Н	L	H L	L	L	M	M	M	L		Н				

S		-	Da	Num Vulne				Sus	ce	eptibility Ranking Criteria										
ource	Source Desc	eription Source	te Assessm Completed		king	s	S			High	9	Urbar	AgL	—	Dry	Sani	Trophic			
Source Number		еТуре	Date Assessment Completed	Highs	Mediums	Lows	Well/Intake	KCSs	PCSs	Highways/RRs	Septicides	Urban Land Cover	Ag Land Cover	Animals	Dry discharges Lagoons	Sanitary radius	ohic status			
EPAID 061	3030 System Name:	PE	EACEFUL ACF	RES																
001 BRV		G	8/3/2001	5	3	4	L	Н	M	Н	. Н	Н	M	L	L	M				
EPAID 061	3050 System Name:	FROST RE	SIDENTS CO	OPER	ATI\	/E														
003 BRV	W	G	10/28/2002	2	3	7 L	L	M	M	Н	. H	L	M	L	L	L				
EPAID 061	3060 System Name:		THE BIG W																	
003 BRV	W	G	4/4/2001	5	2	5 H	L	L	M	Н	. H	Н	M	L	L	Н				
System Type	e N C=Commu	unity; P=Non-Transient,	Non-Commu	ınity;	N=	Trans	ient													
EPAID 061	7030 System Name:	HIDDEN '	VALLEY CAME	PGRO	UNE)														
002 BRV	W	G	1/14/2000	1	0	8 L	L	L	Н	LI	L			L	L					
EPAID 061	7040 System Name:	BOYS CLU	JB OF GREAT	ER DI	ERR	Υ														
001 BRV	W	G	7/11/2001	1	0	8 L	L	L	Н	LI	L			L	L					
EPAID 061	7060 System Name:	ROE	BERT FROST I	ARM																
001 BRV	W	G	6/16/2000	3	0	6 L	Н	L	Н	Н	. L			L	L					
EPAID 061	8050 System Name:	NE	W LEIS GARE	DEN																
001 BRV	W	G	9/19/2000	2	0	7 L	L	L	Н	Н	L			L	L					
EPAID 061	8060 System Name:	ROBER	T FROST MO	TOR I	NN															
001 BRV	W	G	6/16/2000	3	0	6 L	L	Н	Н	Н	L			L	L					
EPAID 061	8080 System Name:	BEAVER LA	AKE MHP AND	COT	TAG	ES														
001 BRV	W	G	7/26/2001	1	0	8 L	L	L	Н	LI	L			L	L					
EPAID 061	8090 System Name:	PR	OMISES TO K	EEP																
001 BRV		G	1/14/2000	0		9 L	L	L	L	LI	_ L				L	Ш				
002 BRV	W	G	6/16/2000	0	0	9 L	L	L	L	LI	. L			L	L	Ш				
EPAID 061	8100 System Name:	KERS	HAWS QUICK	STO	Р															

တ္					Dat	Number of Vulnerability			S	us	cept	ibili	ty R	ank	ing	Cri	teri	a			
Source		Source Descr	ription	Source	te Assessm Completed	Rankings			We		9	40!H	S	Urban	Ag L	V	Ε.	Dry c	Sanit	Trophic	
Number				Type	Date Assessment Completed	Highs	Mediums	Lows	Detects	Well/Intake	KCSs	PCSs	Pesticides Highways/DDs	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	ohic status
001	BRW			G	7/23/2001	3	0	6	L	L	Н	Н	l L	L			L	L			
System T	System Type P C=Community; P=Non-Transient, Non-Community; N=Transient																				
EPAID	0615020	System Name:	CAL\	ALVARY CHURCH AND SCHOOL																	
001	BRW			G	8/3/2001	2	2	8	L	L	L	L	L	Н	M	M	L	L		Н	
EPAID	0615040	System Name:	CIF	RCLE	OF FRIENDS	SCH	OOL														
001	BRW			G	8/3/2001	3	2	7	L	L	L	M	l L	Н	L	Н	L	L		М	
EPAID	0615060	System Name:	E DER	RY M	EMORIAL EL	EM S	СНС	OOL													
001	BRW			G	8/3/2001	1	4	7	L	L	L	M	_ N	Н	L	M	L	L		М	
EPAID	0615070	System Name:	RTHE	RAINBOW P	RESC	СНО	OL														
001	BRW	_		G	11/5/2001	2	4	6	L	L	Н	M	1 L	M	L	M	L	L		М	
EPAID	0616020	0616020 System Name:				ZA															
001	BRW	<u> </u>		G	3/13/2001	3	3	6	Н	L	Н	M	l L	L	L	M	L	L		М	

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