VERMONT
ENVIRONMENTAL CONSERVATION

Huntington River

Watershed Description

This bacteria TMDL summary applies to a 0.7-mile reach of the Huntington River and includes a watershed reconnaissance survey, a set of site-specific potential bacteria sources, and action items for next steps towards removal of impairment.

The entire Huntington River is 18 miles long and drains an area of 67 square miles in Chittenden, Addison and Washington counties. The Huntington River flows from south to north from its headwaters in Buels Gore to its confluence with the Winooski River in the village of Jonesville in Richmond (Worthley, 2005). The river is located in the Northern Green Mountain biophysical region of Vermont which includes the Green Mountains and its foothills (HPC, 2007). An important natural resource in the region, the Huntington River provides opportunities for fishing and boating, as well as wildlife habitat and scenic resources. The river is also popular for swimming, with eight popular swimming holes within the Huntington section alone (HPC, 2007).

The Huntington River's bacteria-impaired reach begins at the East Street Bridge in Huntington and continues downstream through Huntington's Lower Village, crossing under Bridge Street and ending near the town cemetery (Figure 1). Upstream of the reach, the Huntington River is fed by many tributaries including Weaver Brook; Jones Brook in Hanksville; Cobb Brook by Charlie Smith Road; Carpenter Brook south of Shaker Mountain Road; Brush Brook in Huntington Center; Hollow Brook by the Hinesburg Hollow Road; and Fargo Brook by East Street (HPC, 2007).

Waterbody Facts (VT08-10)

- **Towns:** Huntington, Starksboro, Buels Gore
- **Impaired Segment Location:** Vicinity of Bridge Street in Huntington
- **Impaired Segment Length:** 0.7 miles
- **Classification:** Class B
- **Watershed Area:** 45 mi^2
- **Planning Basin:** 8-Winooski

The bacteria-impaired reach is 0.7 miles long and drains an area of 45 square miles, primarily within Huntington, Starksboro, and Buels Gore, and including small sections of Duxbury and Fayston (Figure 1). Overall, land use in the watershed is 90% forested, 9% agricultural, <1% developed, and <1% other

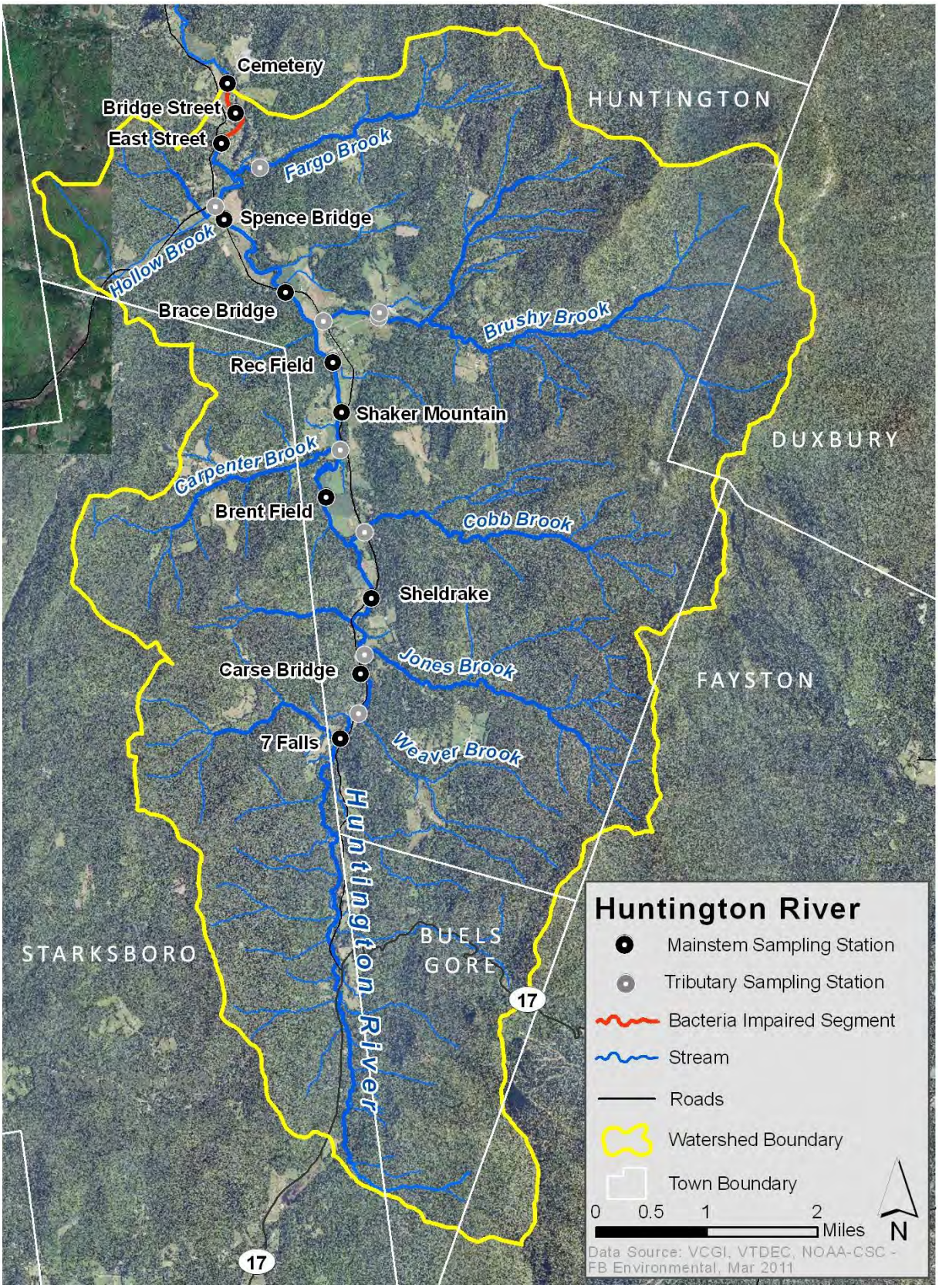

Figure 1: ***Map of the Huntington River watershed with impaired segment and sampling stations indicated.***

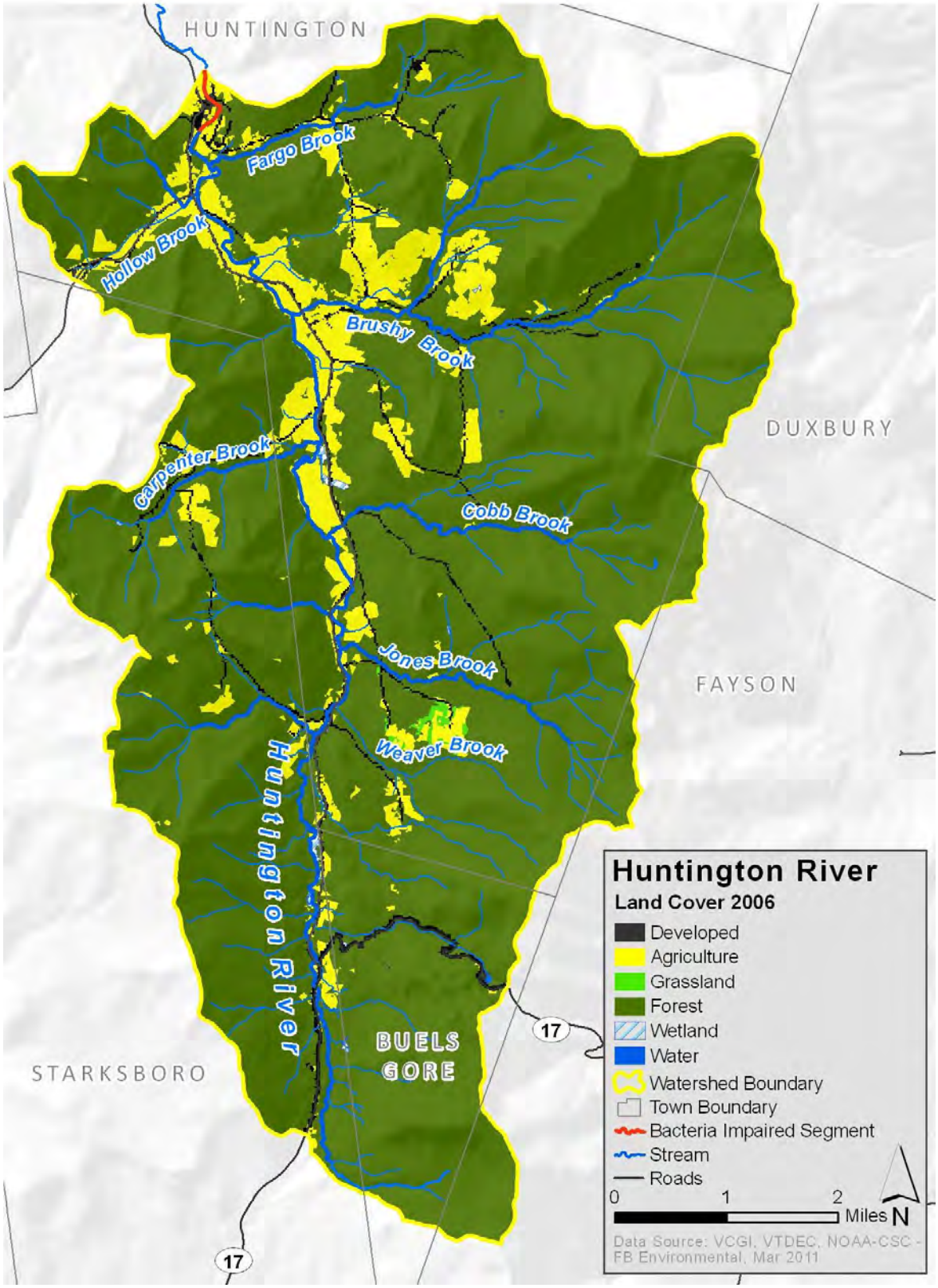

Figure 2: ***Map of the Huntington River watershed with impaired segment and land cover indicated.***

uses, as shown in Figure 2 (based on 2006 Land Cover Analysis by NOAA-CSC). Most of the developed land in the watershed is found in Huntington's Lower Village, where the impaired reach is located (Figure 3). Landuse adjacent to the impaired reach are primarily residential and agricultural. Most of the soils found along the Huntington River Valley are well suited for crop or pasture land. As such, many of the larger floodplains along the Huntington River have been converted to agricultural land.

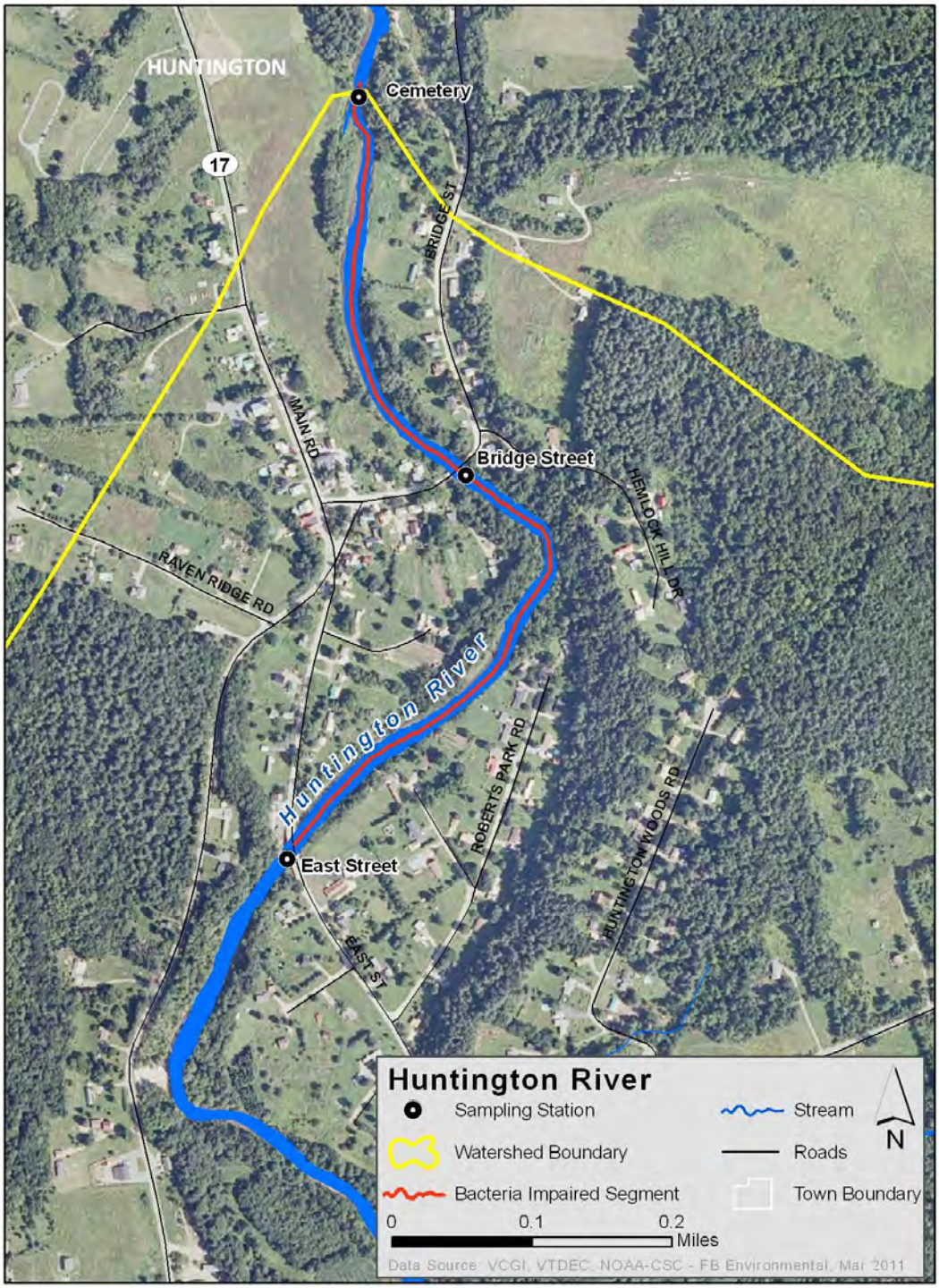

Figure 3: ***Map of the bacteria-impaired reach of the Huntington River with sampling locations indicated.***

Why is a TMDL needed?

The Huntington River is a Class B, cold water fishery with designated uses including swimming, fishing and boating (VTDEC, 2008). The Huntington Conservation Commission has monitored *E.coli* in the Huntington River since 2002. In 2006, the Huntington River Conservation Partnership, a collaboration between the conservation commissions in Huntington and Richmond, was formed and began to sample the river in both the towns of Huntington and Richmond. Samples are collected once a week at 16 sites throughout the summer season. Additional samples are collected in tributaries and at numerous floating sites, which are used to narrow down potential sources. Samples are analyzed at the State of Vermont Larosa Water Quality Lab in Waterbury (HRCP, 2010).

The data collected has documented a persistent *E.coli* contamination problem in the Huntington River. Table 1 provides a summary of bacteria sampling results from 2005 and shows that overall, *E.coli* levels were above the water quality criterion value (of 77 counts/100 mL) in over 50% of sampling events. At three stations in Huntington's Lower Village entitled; East Street, Bridge Street, and Cemetery in Figure 3, *E.coli* levels were above Vermont's water quality criterion 40%, 60%, and 70% of the time, respectively.

Due to elevated bacteria measurements at these stations, the Huntington River, in the vicinity of Bridge street in Huntington (from East Street to approximately 0.7 miles downstream), did not meet Vermont's water quality standards, was identified as impaired and was placed on the 303(d) list (VTDEC, 2008). The 303(d) listing states that use of the Huntington River for contact recreation (i.e., swimming) is impaired. The Clean Water Act requires that all 303(d) listed waters undergo a TMDL assessment that describes the impairments and identifies the measures needed to restore water quality. The goal is for all waterbodies to comply with state water quality standards.

Watershed Reconnaissance Survey and Potential Bacteria Sources

A reconnaissance survey was conducted by FB Environmental Associates in the Huntington River watershed on October 25 and 26, 2010. Prior to and during the survey, guidance and input were provided by Aaron Worthley, former Huntington Conservation Commission Chair, and Leslie Matthews and Karen Bates from the Vermont Department of Environmental Conservation. The survey was conducted beginning at the downstream boundary of the impaired reach and moving upstream and was conducted by car with frequent stops for observations whenever access to the river or its tributaries was available.

The reconnaissance survey was focused on determining the nature and extent of potential pollutant sources through visual inspection and coordination with knowledgeable stakeholders. Potential sources of interest included farms and developed areas situated near the stream. Septic systems and impervious cover areas situated in the stream buffer were of particular interest because of their potential to convey bacteria to the river. The survey resulted in a preliminary list of potential pollutant hotspots that provide guidance towards next steps for restoring water quality in the Huntington River.

Prior to conducting the survey, available bacteria data reports from the Huntington Conservation Commission and the Huntington River Conservation Partnership were reviewed. A preliminary comparison of results shows that results are generally higher at all sites during wet weather, including sites above and below the impaired reach, which suggests a systematic source of contamination from runoff in the watershed. In some years, however, results at some stations suggest an inverse relationship between *E. coli* levels and rainfall, a pattern that may be indicative of contamination from septic systems (Worthley, 2005). This observation is particularly valid at the Bridge Street and East Street sites in Huntington's Lower Village. These sites occasionally have high levels of bacteria during dry weather, at the same time that most sites upstream have low bacteria levels.

Figures 4 and 5 below show *E. coli* levels in recent years (2008 and 2010) at sampling locations within the Town of Huntington (Data obtained from the Huntington River Conservation Partnership, http://huntingtonriver.org/.) The graphs present bacteria measurements (on the y-axis) verses sampling locations with increasing distance downstream (on the x-axis). This presentation format is useful because it enables the reader to visualize bacteria concentrations along the river, noting that the sampling locations in Figures 4 and 5 are shown aerially in Figure 1.

In 2008 and 2010 (Figures 4 and 5, respectively), bacteria concentrations were generally observed to be highest in the downstream sampling locations. Three stations in Huntington's Lower Village; East Street, Bridge Street, and Cemetery span the Huntington River's impaired reach (Figure 3). While some of the highest concentrations were measured at East Street and Bridge Street in particular, exceedances occurred both upstream and downstream of the impaired reach as well. Wet weather events corresponded to the highest bacteria concentration events. On September 15, 2008 (shown in light blue), exceedances were measured at East Street and Bridge Street, while *E. coli* concentrations were generally low at other stations. These general observations are useful to support identification of bacteria sources because they indicate locations and conditions associated with elevated bacteria measurements.

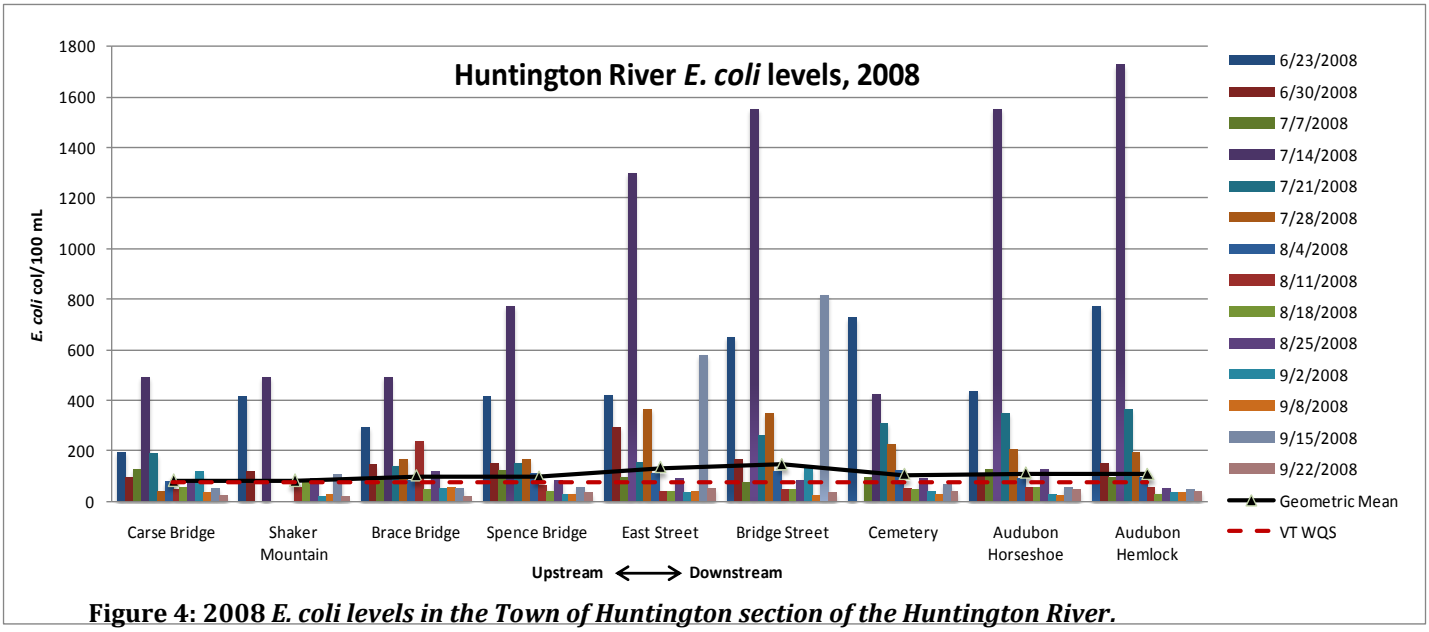

Figure 4: 2008 *E. coli levels in the Town of Huntington section of the Huntington River.*

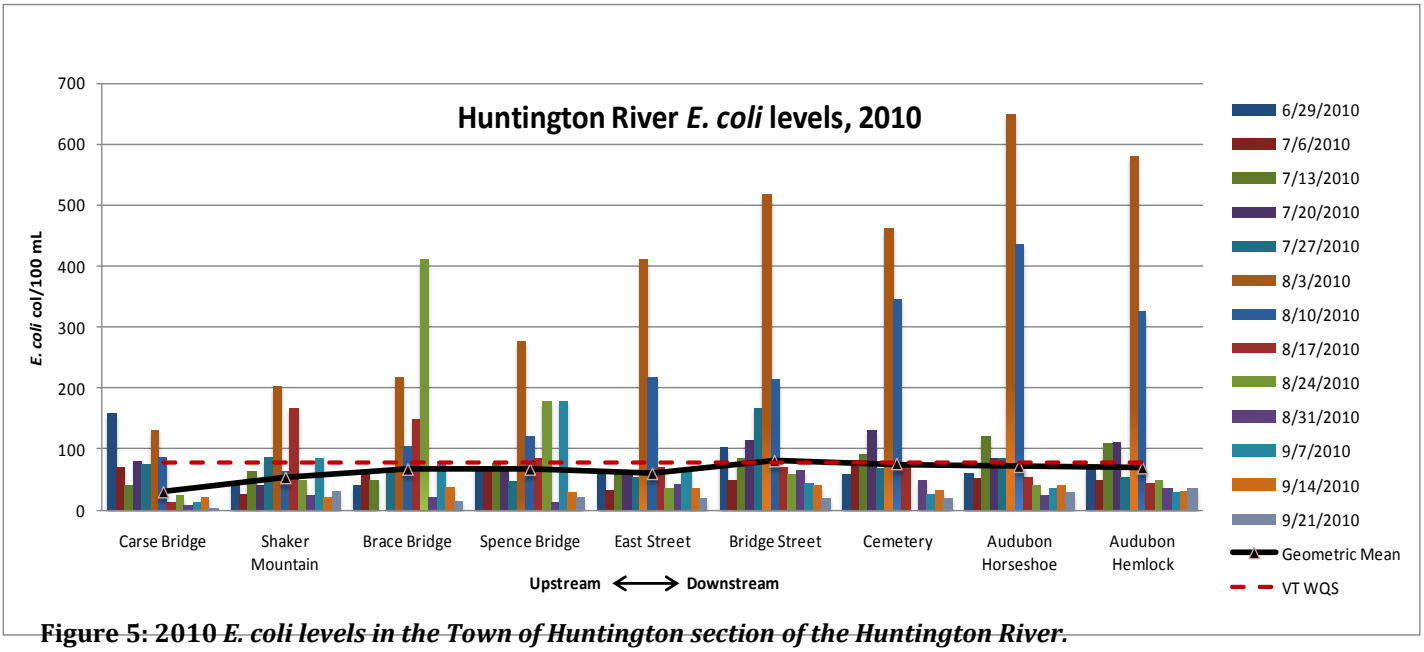

Figure 5: 2010 *E. coli levels in the Town of Huntington section of the Huntington River.*

In addition to reviewing available bacteria data reports, the preliminary results of a microbial source tracking (MST) study on the Huntington River were also reviewed (Matthews et al., 2011). In 2009, VTDEC and USGS conducted a microbial source tracking study to investigate sources of fecal contamination in the Huntington River. Stream samples collected at 6 sites during high-flow and base-flow conditions were analyzed for concentrations of *E. coli* and 16s rRNA genetic markers to exclude or identify humans, ruminants (e.g, cows, deer, etc.), and canids (e.g., dogs) as potential sources of fecal contamination. The East Street and Bridge Street sites (Figure 3, and sites H1 and H2 on Figure 6) were the upstream sites in the MST study; the remaining 4 sites were located downstream of the Huntington River impaired segment.

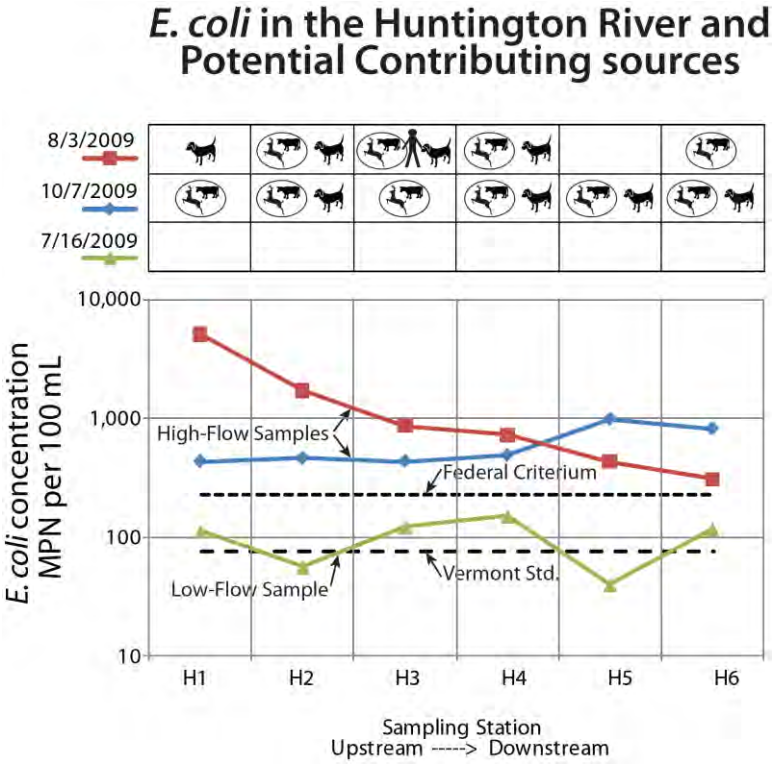

Figure 6: *Preliminary MST study results on the Huntington River. Sites H1 and H2 correspond East Street and Bridge Street, within the bacteria-impaired segment; the remaining sites are downstream. (Matthews et al., 2011)*

Preliminary results from samples from the Huntington River collected under different flow conditions on three dates indicated that humans were unlikely to be a major source of fecal contamination, except for a single positive result at one station that indicated the potential for human sources. Ruminants were potential sources of fecal contamination at all stations on the Huntington River during one high-flow

event and at all but two stations during the other high-flow event. Canids were potential sources of fecal contamination at some stations during two high-flow events, with genetic-marker concentrations in samples from two of the six stations showing positive results for both storm dates. A base-flow sample showed no evidence of major fecal contamination in the Huntington River from humans, ruminants, or canid (Matthews et al., 2011).

Based on the combination of information found in the historic data reports and the recent MST study, a combination of sources, including pet waste, agriculture (manure), wildlife and septic system failures likely contribute to bacterial contamination in the Huntington River watershed. The bacteria source reconnaissance survey focused on identifying potential bacteria sources in the watershed of the Huntington River impaired reach and resulted in identification of several potential bacteria sources. These examples of potential bacteria sources were prioritized into areas A through D, as shown in Figure 7 and described below.

A. Robert's Park/Bridge Street Septic Systems – potentially failing septic system sources;

B. Livestock and agricultural fields near Brace Bridge – potential manure and livestock management-related sources;

C. Farm animals near Trapp Rd. - potential animal waste runoff and manure management-related sources; and

D. Farm fields between Charlie Smith Rd. and Maple Dr.– potential manure management-related sources.

Each of these potential bacteria sources is described on the following pages.

In addition to the areas described in Sites B and D, all other agricultural fields (corn and hay crops) from Huntington Village to Hanksville are treated with liquid or solid manure during the summer months. Although some spot testing of a field just upstream of the village did not reveal a relationship (Worthley, personal communication), it is likely that, in places, manure spreading in the watershed may contribute bacteria to the Huntington during high flow events.

Additionally, it is important to note that Sites B and C are two among several horse and/or small animal operations in the watershed. There are other locations in the watershed where animals have access to surface water, primarily small tributaries to the Huntington River. Some other locations noted during the field reconnaissance visit are along Moody Rd. and Taft Rd.

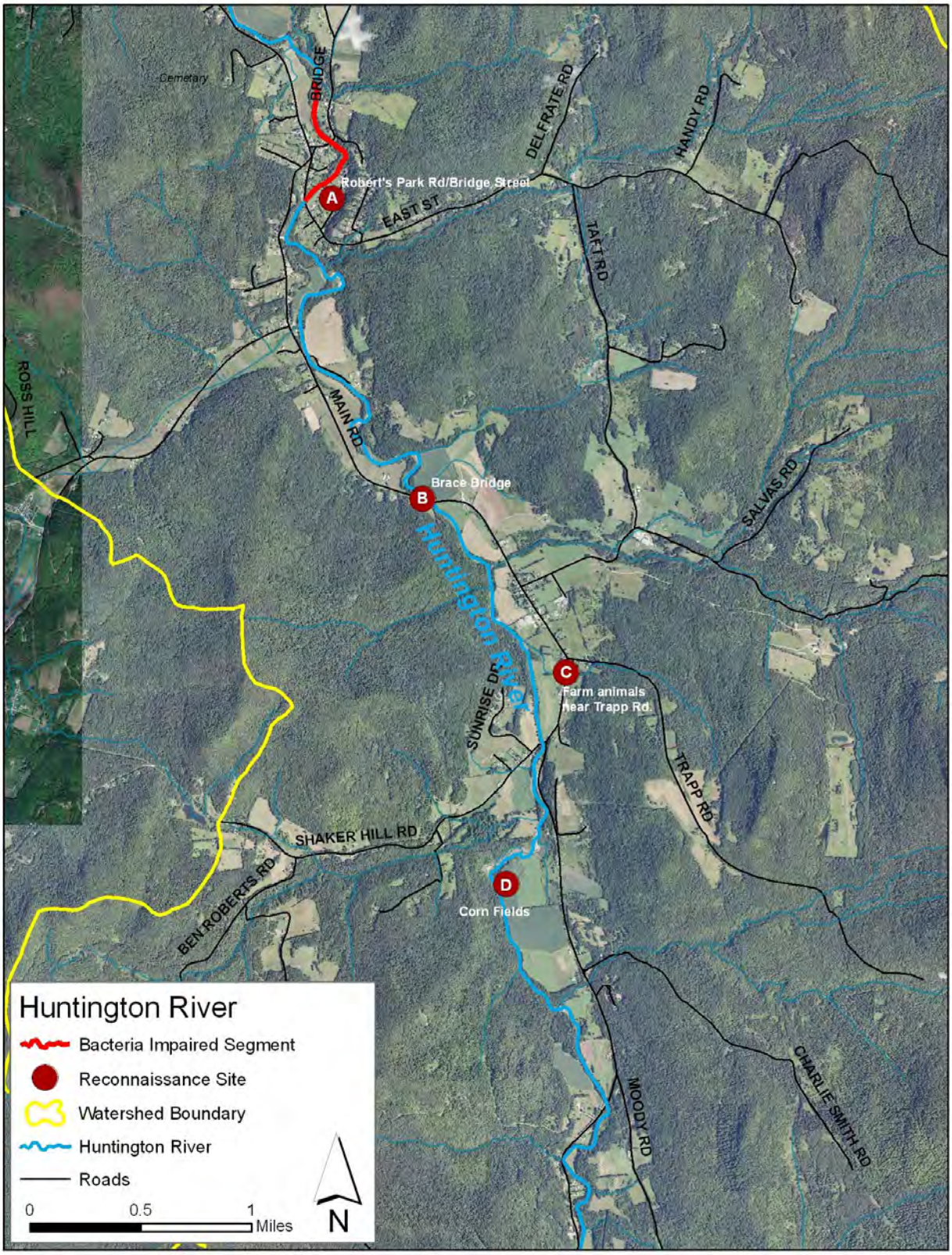

Figure 7: ***Aerial map of Huntington River reconnaissance survey sites.***

Site A: Robert's Parkway/Bridge Street Septic Systems

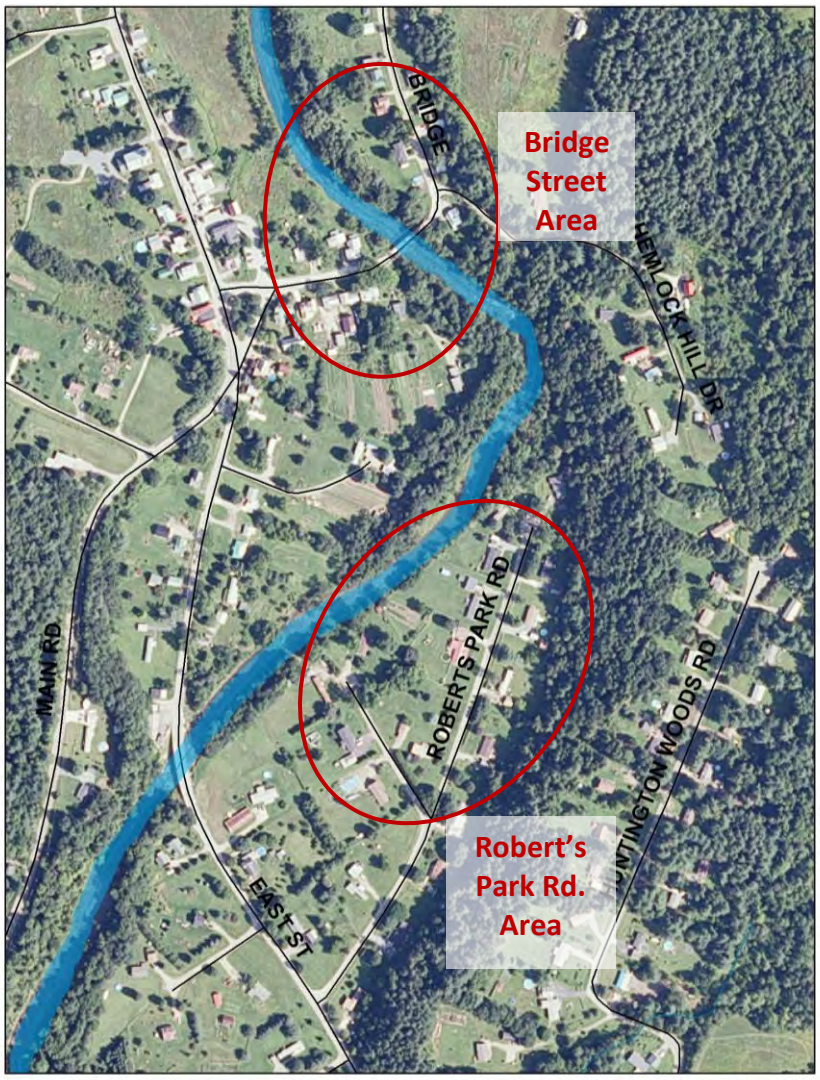

Figure 8: ***Aerial view of Site A, Roberts Park Rd. and Bridge St.***

There are numerous single family houses situated along Bridge Street and Roberts Park Road in Lower Huntington Village, as shown in Figure 8. As there is no public sewer system in Huntington, all of these homes rely on private septic systems. Some of the homes, particularly along Robert's Park Road, are located within the river's flood plain and the septic systems for each of these homes are likely to be close to the Huntington River. Soils in the Huntington River flood plain generally are not well suited to septic systems, due to periodic flooding and high proportions of clay in the soil. Additionally, according to town officials, the septic systems along Robert's Park Road date back to the mid-1970s, while many of the systems along Bridge Street are likely older. Soil wetness (seasonally high water table), poorly suited soils, and system age are common causes of septic system failure.

While water quality monitoring results for the Huntington River may not point to consistent septic system failures in the area, data does suggest sporadically ineffective septic systems that inadequately treat effluent prior to release. Bacteria from malfunctioning septic systems can enter surface waters through groundwater or stormwater runoff. Due to the close proximity of these septic systems to the river, they should be investigated to ensure that they are functioning properly.

Ground water monitoring stations located in the Lower Village could be a helpful additional data source. This could help determine if contamination is traveling underground from failing septic systems (Worthley, 2005). Optical brighter testing was conducted in 2005 with no measurable result; additional

surfactant and detergent testing could also be beneficial to identify contamination source (Worthley, 2005).

In Vermont, the Agency of Natural Resources is responsible for the permitting of septic systems. Owners of existing systems do not need a permit if there is nothing wrong with the septic system and no changes to the system are made. All new septic systems and replacement or modifications of existing systems require permits. The most common reason for modification or replacement is the failure of an existing system (NeighborWorks, 2007).

The NeighborWorks Alliance of Vermont offers Septic Repair and Replacement Loans as part of their Home Improvement Loan program. At no charge, NeighborWorks Alliance will write job specifications, approve insured contractors, help coordinate and evaluate bids for the work, inspect the work, and manage payments to contractors. Loan eligibility is determined by income. For more information, contact the Burlington NeighborWorks Alliance office at (802) 862-6244 [http://www.getahome.org/].

Figure 9: ***Photos of Site A. Top – houses in Roberts Park, located in Huntington River floodplain; Bottom left – Huntington River Bridge Street crossing; Bottom right – houses on Bridge Street.***

Site B: Livestock and agricultural fields near Brace Bridge

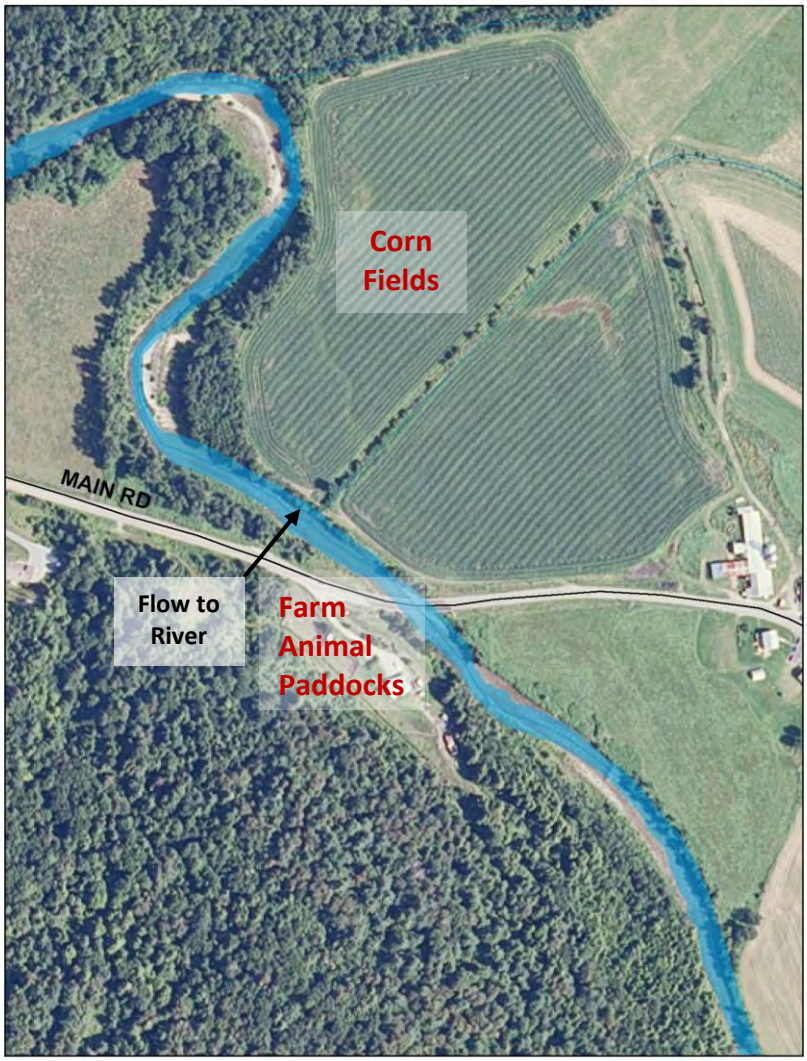

Figure 10: ***Aerial view of Site B, near Brace Bridge.***

Agricultural lands along the Huntington River may be contributing bacteria and other pollutants to the river. A farm situated near Brace Bridge is shown in Figures 7 and 10. The aerial view in Figure 10 shows that there is little stream buffer between the corn fields and the river. Additionally, a small homestead with livestock is located across the street (Figure 11). The animal paddocks are located on very steep slopes, and the runoff from the paddocks is channeled across the road and into the Huntington River.

Agricultural activities including livestock maintenance and manure applications to croplands adjacent to the river likely contribute to fecal bacteria contributions. Manure spreading is allowed in Vermont between April 2 and December 14 and may be applied within 10 feet of surface waters (VAAFM, 2006). Surface waters must be buffered from annual crop lands by at least 10 feet of perennial vegetation (VAAFM, 2006). In some locations along the river, vegetated buffers appear to be less than 10 feet in width. Additionally, mown vegetation, as shown in Figure 11, is less effective at reducing pollutant loads to the river.

Manure management and stream buffer practices should be reviewed at farms along the Huntington River. Several on-site improvement projects may be appropriate to reduce pollutant runoff from farms to the river. The Natural Resources Conservation Service, the Consolidated Farm Services Agency, USEPA, and other agencies can provide technical assistance and partial funding to support these projects. Potentially appropriate improvement projects may include increasing vegetated buffers, and diverting runoff to vegetated areas (rather than channeling directly to the river).

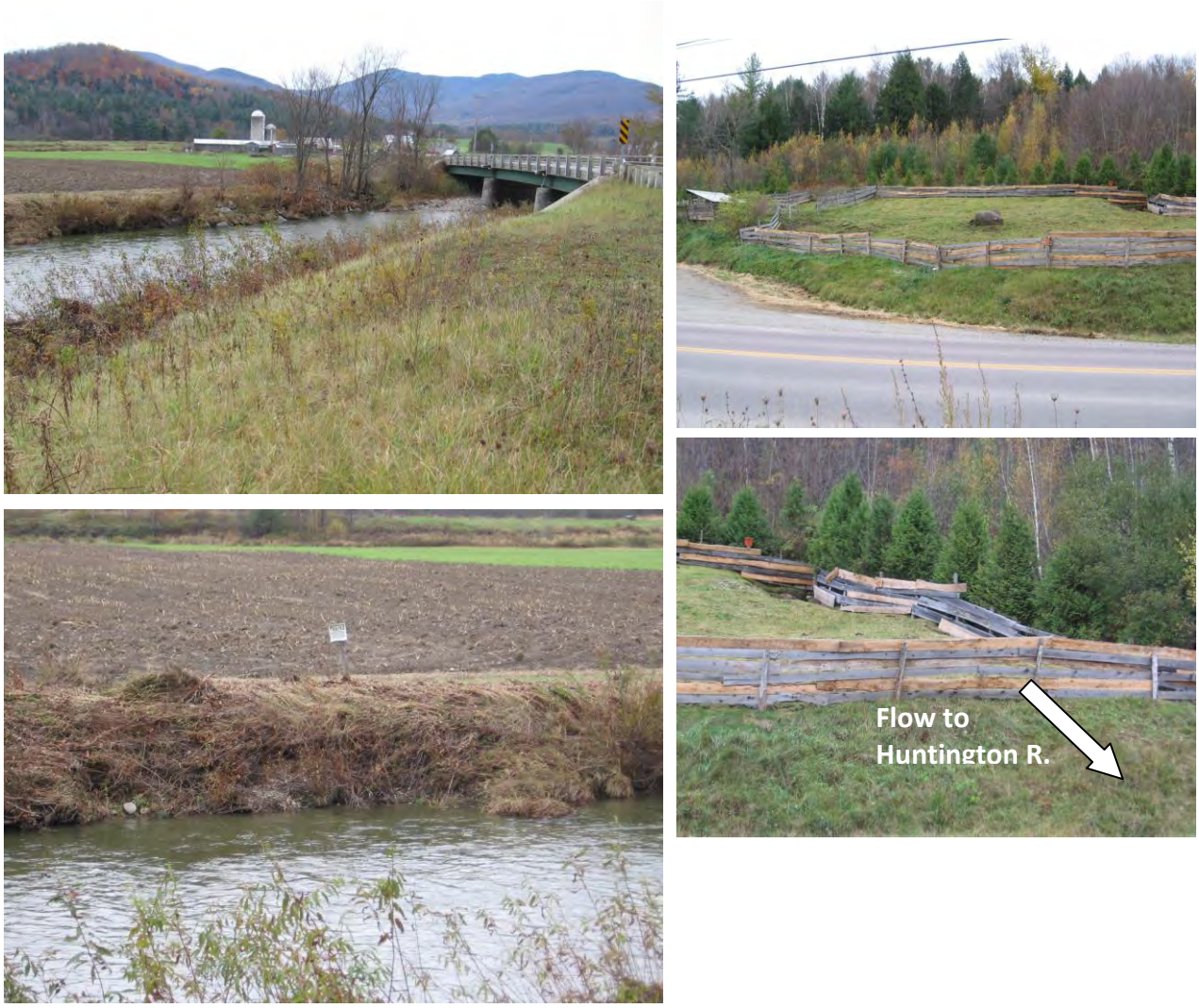

Figure 11: ***Photos of Site B. Left – tilled corn fields; Right – farm animal paddocks on steep slope.***

Site C: Farm animals near Trapp Rd

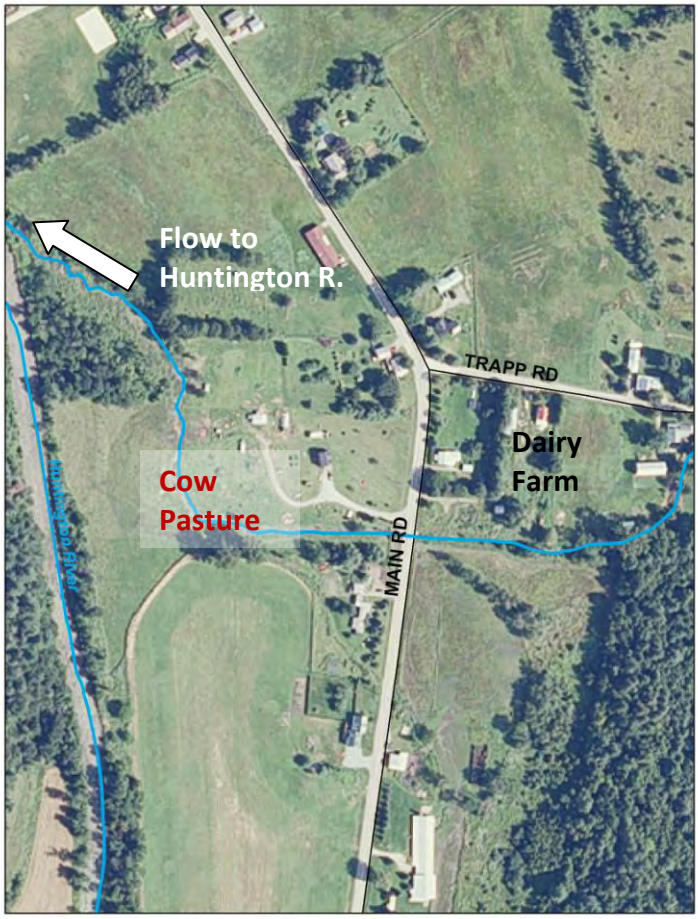

Figure 12: ***Aerial view of Site C, farm animals near Trapp Rd.***

There are several locations in the Huntington River watershed where farm animals have direct access to tributary streams that flow to the Huntington River. One location where animals sometimes have access to a tributary stream is a small farm near Trapp Rd, located across from Heartland Percheron (Figure 12).

At Site C, small tributary to the Huntington River runs through the Heartland Percheron property parallel to Trapp Road, and across the Main Rroad onto a small farm/homestead with cows on pasture.

During the 2010 reconnaissance visit, cows on pasture did appear to have direct access to the tributary (Figure 13). Installing fences and drinking water tank to keep cows away from the tributary is recommended.

Figure 13: ***Huntington River tributary at Site C, with cows grazing nearby.***

Site D: Farm fields between Charlie Smith Rd. and Maple Dr.

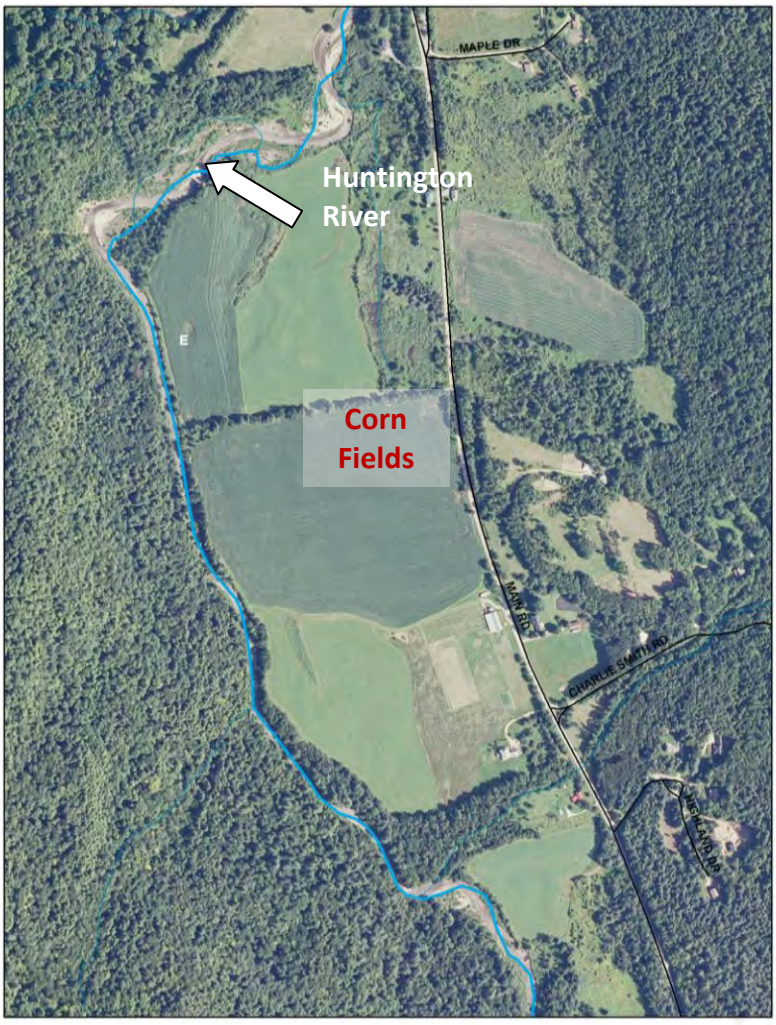

Figure 14: ***Aerial view of corn fields adjacent to the Huntington River at Site D.***

The alluvial soils in the Huntington River floodplains are ideal for agriculture. Many farm fields in the area are adjacent to the river. The Huntington River's vegetated buffer often only includes the bank and a narrow strip at the top of the bank, with a quick transition to agricultural land (HPC, 2007).

Figure 14 shows the location of corn fields between Charlie Smith Rd. and Maple Dr. These fields are one example of tilled agricultural fields with very narrow vegetated buffers, particularly the northern field. Manure spread on this field is likely to reach the Huntington River during wet weather, particularly if it is not incorporated into the soil quickly.

Figure 14 shows photos of the fields at Site D. For more information and recommendations about manure spreading, see Site B above.

Figure 15: ***Photos of corn fields adjacent to the Huntington River at Site D. Left – example of narrow buffer; Right – view of field from stream bank.***

Recommended Next Steps

Recommended next steps include continuing monitoring, investigating potentially failing septic systems, implementing agricultural best management practices, as needed, and conducting stream buffer restoration activities. Additionally, regular pumping of septic systems, fencing livestock, horses and other animals out of rivers, streams and wetlands and maintaining vegetated buffers along waterways are all ways to improve the water quality in the Huntington River.

- Continue Bacteria Monitoring Program- The Huntington River Conservation Partnership has a strong water quality monitoring program in place on the Huntington River. Continued monitoring and data analysis will help identify bacteria source areas and establish long-term trends.
- Inspect and Mitigate Failing Septic Systems – Conduct a survey of septic systems, particularly at Robert's Park Rd/ Bridge St area in Lower Huntington Village (potential source area A). We recommend that a systematic program be adopted to inspect all septic systems adjacent to the Huntington River and its tributaries. The Town Health Officer in Huntington is Dean Grover and the Chair of the Selectboard is Jim Christiansen. Town officials should coordinate with Vermont environmental enforcement officers to identify and replace failing systems.
- Groundwater Monitoring - Ground water monitoring stations located in the Lower Village are recommended. This could help determine if contamination is traveling underground from failing septic systems.
- Agricultural - Farms situated near the Huntington River, such as those described as potential source areas B, C and D should coordinate with the USDA, NRCS and other agencies to assess the extent of agricultural waste application and potentially reduce applications through improved nutrient management planning. These farm operations should also evaluate riparian buffer and identify opportunities to remove areas near the river from production.
- Riparian Corridor –Conduct riparian corridor projects and seek to enhance buffer through a combination of buffer plantings, land conservation, and improved agricultural practices.

The steps outlined above should be continued and enhanced to focus on the goals of bacteria TMDL implementation. If implemented, these actions will provide a strong basis toward the goal of mitigating bacteria sources and meeting water quality standards in the Huntington River.

Bacteria Data

Vermont's current criteria for bacteria are more conservative than those recommended by EPA. For Class B waters, VTDEC currently utilizes an E. coli single sample criterion of 77 organisms/100ml. Although, Vermont is in the process of revising their bacteria WQS to better align with the National Recommended Water Quality Criteria (NRWQC) of a geometric mean of 126 organisms/100ml, and a

single sample of 235 organisms/100ml. Therefore, in Table 1 below, bacteria data were compared to both the current VTWQS and the NRWQC for informational purposes.

Huntington River, Vicinity of Bridge Street in Huntington

***WB ID*:** VT08-10

Characteristics: Class B

Impairment: *E. coli* (organisms/100mL)

Current Water Quality Criteria for E. coli:

Single sample: 77 organisms/100 mL

NRWQC for E. coli:

Single sample: 235 organisms/100 mL

Geometric mean: 126 organisms/100 mL

Percent Reduction to meet TMDL (Current):

Single Sample: **97%**

Percent Reduction to meet NRWQC

Single sample: **90%**

Geometric mean: **74%**

Data: 2004-2007, Huntington Conservation Commission

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year.

Station Name	Station Location	Date	Result	Geometric Mean**
1	7 Falls	9/17/07	14	6
1	7 Falls	8/27/07	2	
1	7 Falls	7/23/07	5	
1	7 Falls	6/25/07	11	
1	7 Falls	8/29/06	9	NA
1	7 Falls	7/25/06	11	
1	7 Falls	6/27/06	49	
1	7 Falls	9/28/05	17	42
1	7 Falls	9/14/05	9	
1	7 Falls	9/7/05	9	
1	7 Falls	8/31/05	1120	
1	7 Falls	8/24/05	37	
1	7 Falls	8/17/05	9	
1	7 Falls	8/10/05	25	
1	7 Falls	8/3/05	39	
1	7 Falls	7/27/05	95	
1	7 Falls	7/20/05	26	
1	7 Falls	7/13/05	98	
1	7 Falls	7/6/05	117	
1	7 Falls	6/29/05	30	
1	7 Falls	6/22/05	131	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2005) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
1	7 Falls	9/27/04	4	
1	7 Falls	9/20/04	10	
1	7 Falls	9/13/04	4	
1	7 Falls	9/7/04	2	
1	7 Falls	8/30/04	47	
1	7 Falls	8/23/04	22	
1	7 Falls	8/17/04	36	
1	7 Falls	8/9/04	14	19
1	7 Falls	8/2/04	24	
1	7 Falls	7/26/04	34	
1	7 Falls	7/19/04	71	
1	7 Falls	7/12/04	34	
1	7 Falls	7/6/04	155	
1	7 Falls	6/28/04	13	
1	7 Falls	6/21/04	21	
1	7 Falls	9/24/03	79	
1	7 Falls	8/20/03	5	23
1	7 Falls	7/23/03	64	
1	7 Falls	6/25/03	12	
2	Carse Bridge	9/17/07	39	
2	Carse Bridge	9/10/07	260	
2	Carse Bridge	9/4/07	36	
2	Carse Bridge	8/27/07	23	
2	Carse Bridge	8/20/07	68	
2	Carse Bridge	8/13/07	1050	
2	Carse Bridge	8/6/07	69	87
2	Carse Bridge	7/30/07	46	
2	Carse Bridge	7/23/07	66	
2	Carse Bridge	7/16/07	81	
2	Carse Bridge	7/9/07	548	
2	Carse Bridge	7/2/07	56	
2	Carse Bridge	6/25/07	62	
2	Carse Bridge	6/18/07	74	
2	Carse Bridge	8/29/06	20	
2	Carse Bridge	7/25/06	24	NA
2	Carse Bridge	6/27/06	135	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
2	Carse Bridge	9/28/05	18	
2	Carse Bridge	9/21/05	18	
2	Carse Bridge	9/14/05	8	
2	Carse Bridge	9/7/05	37	
2	Carse Bridge	8/31/05	2420	
2	Carse Bridge	8/24/05	84	
2	Carse Bridge	8/17/05	41	
2	Carse Bridge	8/10/05	866	82
2	Carse Bridge	8/3/05	42	
2	Carse Bridge	7/27/05	162	
2	Carse Bridge	7/20/05	96	
2	Carse Bridge	7/13/05	43	
2	Carse Bridge	7/6/05	276	
2	Carse Bridge	6/29/05	38	
2	Carse Bridge	6/22/05	228	
2	Carse Bridge	9/27/04	27	
2	Carse Bridge	9/20/04	23	
2	Carse Bridge	9/13/04	11	
2	Carse Bridge	9/7/04	40	
2	Carse Bridge	8/30/04	122	
2	Carse Bridge	8/23/04	86	
2	Carse Bridge	8/17/04	39	
2	Carse Bridge	8/9/04	19	43
2	Carse Bridge	8/2/04	83	
2	Carse Bridge	7/26/04	52	
2	Carse Bridge	7/19/04	194	
2	Carse Bridge	7/12/04	45	
2	Carse Bridge	7/6/04	261	
2	Carse Bridge	6/28/04	6	
2	Carse Bridge	6/21/04	28	
2	Carse Bridge	9/24/03	96	
2	Carse Bridge	8/20/03	23	90
2	Carse Bridge	7/23/03	345	
2	Carse Bridge	6/25/03	86	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
3	Sheldrake	9/19/06	19	43
3	Sheldrake	9/12/06	24	
3	Sheldrake	9/5/06	14	
3	Sheldrake	8/29/06	22	
3	Sheldrake	8/22/06	39	
3	Sheldrake	8/14/06	10	
3	Sheldrake	8/8/06	32	
3	Sheldrake	8/1/06	130	
3	Sheldrake	7/25/06	50	
3	Sheldrake	7/18/06	48	
3	Sheldrake	7/11/06	178	
3	Sheldrake	7/5/06	56	
3	Sheldrake	6/27/06	116	
3	Sheldrake	6/20/06	114	
3	Sheldrake	9/28/05	33	89
3	Sheldrake	9/21/05	16	
3	Sheldrake	9/14/05	517	
3	Sheldrake	8/31/05	980	
3	Sheldrake	8/24/05	44	
3	Sheldrake	8/17/05	24	
3	Sheldrake	8/10/05	19	
3	Sheldrake	7/27/05	172	
3	Sheldrake	7/20/05	137	
3	Sheldrake	7/13/05	45	
3	Sheldrake	7/6/05	291	
3	Sheldrake	6/29/05	48	
3	Sheldrake	6/22/05	261	
3	Sheldrake	9/27/04	4	33
3	Sheldrake	9/20/04	19	
3	Sheldrake	9/13/04	21	
3	Sheldrake	9/7/04	26	
3	Sheldrake	8/30/04	126	
3	Sheldrake	8/23/04	18	
3	Sheldrake	8/17/04	50	
3	Sheldrake	8/9/04	12	
3	Sheldrake	8/2/04	24	
3	Sheldrake	7/26/04	64	
3	Sheldrake	7/19/04	93	
3	Sheldrake	7/12/04	30	
3	Sheldrake	7/6/04	261	
3	Sheldrake	6/28/04	13	
3	Sheldrake	6/21/04	73	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
3	Sheldrake	9/24/03	99	
3	Sheldrake	9/17/03	6	
3	Sheldrake	9/10/03	12	
3	Sheldrake	9/3/03	23	
3	Sheldrake	8/27/03	20	
3	Sheldrake	8/20/03	23	
3	Sheldrake	8/13/03	34	45
3	Sheldrake	8/6/03	99	
3	Sheldrake	7/30/03	38	
3	Sheldrake	7/23/03	210	
3	Sheldrake	7/16/03	345	
3	Sheldrake	7/9/03	98	
3	Sheldrake	6/25/03	47	
4	Brent Field	6/25/07	71	NA
4	Brent Field	9/19/06	16	
4	Brent Field	8/29/06	13	42
4	Brent Field	7/25/06	93	
4	Brent Field	6/27/06	160	
4	Brent Field	9/28/05	921	
4	Brent Field	9/21/05	9	
4	Brent Field	9/14/05	33	
4	Brent Field	9/7/05	34	
4	Brent Field	8/31/05	1200	
4	Brent Field	8/24/05	40	
4	Brent Field	8/17/05	31	
4	Brent Field	8/10/05	88	104
4	Brent Field	8/3/05	50	
4	Brent Field	7/27/05	231	
4	Brent Field	7/20/05	115	
4	Brent Field	7/13/05	210	
4	Brent Field	7/6/05	276	
4	Brent Field	6/29/05	70	
4	Brent Field	6/22/05	272	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
4	Brent Field	9/27/04	14	
4	Brent Field	9/20/04	11	
4	Brent Field	9/13/04	20	
4	Brent Field	9/7/04	14	
4	Brent Field	8/30/04	44	
4	Brent Field	8/23/04	19	
4	Brent Field	8/17/04	25	
4	Brent Field	8/9/04	17	36
4	Brent Field	8/2/04	33	
4	Brent Field	7/26/04	88	
4	Brent Field	7/19/04	186	
4	Brent Field	7/12/04	56	
4	Brent Field	7/6/04	365	
4	Brent Field	6/28/04	26	
4	Brent Field	6/21/04	57	
4	Brent Field	9/24/03	79	
4	Brent Field	8/20/03	20	56
4	Brent Field	7/23/03	91	
4	Brent Field	6/25/03	70	
5	Shaker Mountain	9/17/07	30	
5	Shaker Mountain	9/10/07	214	
5	Shaker Mountain	9/4/07	7	
5	Shaker Mountain	8/27/07	79	
5	Shaker Mountain	8/20/07	260	
5	Shaker Mountain	8/13/07	727	
5	Shaker Mountain	8/6/07	51	86
5	Shaker Mountain	7/30/07	68	
5	Shaker Mountain	7/23/07	52	
5	Shaker Mountain	7/16/07	96	
5	Shaker Mountain	7/9/07	166	
5	Shaker Mountain	7/2/07	135	
5	Shaker Mountain	6/25/07	50	
5	Shaker Mountain	6/18/07	96	
5	Shaker Mountain	9/19/06	12	
5	Shaker Mountain	8/29/06	22	
5	Shaker Mountain	8/22/06	71	
5	Shaker Mountain	8/14/06	18	
5	Shaker Mountain	8/8/06	19	
5	Shaker Mountain	8/1/06	64	49
5	Shaker Mountain	7/25/06	58	
5	Shaker Mountain	7/18/06	60	
5	Shaker Mountain	7/11/06	79	
5	Shaker Mountain	7/5/06	56	
5	Shaker Mountain	6/27/06	179	
5	Shaker Mountain	6/20/06	152	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
5	Shaker Mountain	9/28/05	44	
5	Shaker Mountain	9/21/05	20	
5	Shaker Mountain	9/14/05	53	
5	Shaker Mountain	9/7/05	88	
5	Shaker Mountain	8/31/05	1550	
5	Shaker Mountain	8/24/05	53	
5	Shaker Mountain	8/17/05	90	
5	Shaker Mountain	8/10/05	40	113
5	Shaker Mountain	8/3/05	816	
5	Shaker Mountain	7/27/05	167	
5	Shaker Mountain	7/20/05	69	
5	Shaker Mountain	7/13/05	69	
5	Shaker Mountain	7/6/05	276	
5	Shaker Mountain	6/29/05	66	
5	Shaker Mountain	6/22/05	461	
5	Shaker Mountain	9/27/04	4	
5	Shaker Mountain	9/20/04	15	
5	Shaker Mountain	9/13/04	21	
5	Shaker Mountain	9/7/04	17	
5	Shaker Mountain	8/30/04	109	
5	Shaker Mountain	8/23/04	16	
5	Shaker Mountain	8/17/04	34	
5	Shaker Mountain	8/9/04	17	37
5	Shaker Mountain	8/2/04	39	
5	Shaker Mountain	7/26/04	50	
5	Shaker Mountain	7/19/04	160	
5	Shaker Mountain	7/12/04	52	
5	Shaker Mountain	7/6/04	517	
5	Shaker Mountain	6/28/04	47	
5	Shaker Mountain	6/21/04	36	
5	Shaker Mountain	9/24/03	98	
5	Shaker Mountain	8/20/03	14	
5	Shaker Mountain	7/23/03	81	40
5	Shaker Mountain	7/2/03	23	
5	Shaker Mountain	6/25/03	41	
6	Rec Field	9/17/07	30	
6	Rec Field	8/27/07	66	59
6	Rec Field	7/23/07	98	
6	Rec Field	7/2/07	61	
6	Rec Field	9/19/06	16	
6	Rec Field	8/29/06	20	50
6	Rec Field	7/25/06	51	
6	Rec Field	6/27/06	387	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
6	Rec Field	9/28/05	51	
6	Rec Field	9/28/05	34	
6	Rec Field	9/21/05	18	
6	Rec Field	9/21/05	28	
6	Rec Field	9/14/05	93	
6	Rec Field	9/14/05	46	
6	Rec Field	8/31/05	2420	
6	Rec Field	8/31/05	2420	
6	Rec Field	8/24/05	980	
6	Rec Field	8/24/05	572	
6	Rec Field	8/17/05	21	
6	Rec Field	8/17/05	19	
6	Rec Field	8/10/05	37	
6	Rec Field	8/10/05	35	121
6	Rec Field	8/3/05	66	
6	Rec Field	8/3/05	69	
6	Rec Field	7/27/05	261	
6	Rec Field	7/27/05	291	
6	Rec Field	7/20/05	144	
6	Rec Field	7/20/05	101	
6	Rec Field	7/13/05	24	
6	Rec Field	7/13/05	43	
6	Rec Field	7/6/05	649	
6	Rec Field	7/6/05	308	
6	Rec Field	6/29/05	83	
6	Rec Field	6/29/05	105	
6	Rec Field	6/22/05	579	
6	Rec Field	6/22/05	613	
6	Rec Field	9/27/04	9	
6	Rec Field	9/20/04	14	
6	Rec Field	9/13/04	18	
6	Rec Field	9/7/04	19	
6	Rec Field	8/30/04	108	
6	Rec Field	8/23/04	17	
6	Rec Field	8/17/04	34	
6	Rec Field	8/9/04	25	40
6	Rec Field	8/2/04	62	
6	Rec Field	7/26/04	39	
6	Rec Field	7/19/04	299	
6	Rec Field	7/12/04	60	
6	Rec Field	7/6/04	727	
6	Rec Field	6/28/04	17	
6	Rec Field	6/21/04	34	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
6	Rec Field	9/24/03	96	48
6	Rec Field	8/27/03	10	
6	Rec Field	7/23/03	104	
6	Rec Field	6/25/03	51	
7	Brace Bridge	9/17/07	30	80
7	Brace Bridge	9/10/07	162	
7	Brace Bridge	8/27/07	23	
7	Brace Bridge	8/20/07	27	
7	Brace Bridge	8/13/07	1990	
7	Brace Bridge	8/6/07	68	
7	Brace Bridge	7/30/07	68	
7	Brace Bridge	7/23/07	79	
7	Brace Bridge	7/16/07	62	
7	Brace Bridge	7/9/07	156	
7	Brace Bridge	7/2/07	56	
7	Brace Bridge	6/25/07	68	
7	Brace Bridge	6/18/07	71	
7	Brace Bridge	9/19/06	20	78
7	Brace Bridge	9/12/06	21	
7	Brace Bridge	9/5/06	60	
7	Brace Bridge	8/29/06	36	
7	Brace Bridge	8/22/06	156	
7	Brace Bridge	8/14/06	66	
7	Brace Bridge	8/8/06	687	
7	Brace Bridge	8/1/06	156	
7	Brace Bridge	7/25/06	102	
7	Brace Bridge	7/18/06	40	
7	Brace Bridge	7/11/06	79	
7	Brace Bridge	7/5/06	43	
7	Brace Bridge	6/27/06	249	
7	Brace Bridge	6/20/06	86	
7	Brace Bridge	9/28/05	34	114
7	Brace Bridge	9/21/05	28	
7	Brace Bridge	9/14/05	93	
7	Brace Bridge	8/31/05	2420	
7	Brace Bridge	8/24/05	572	
7	Brace Bridge	8/17/05	19	
7	Brace Bridge	8/10/05	35	
7	Brace Bridge	8/3/05	66	
7	Brace Bridge	7/27/05	291	
7	Brace Bridge	7/20/05	101	
7	Brace Bridge	7/13/05	24	
7	Brace Bridge	7/6/05	308	
7	Brace Bridge	6/29/05	83	
7	Brace Bridge	6/22/05	613	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
7	Brace Bridge	9/27/04	11	
7	Brace Bridge	9/20/04	26	
7	Brace Bridge	9/13/04	23	
7	Brace Bridge	9/7/04	727	
7	Brace Bridge	8/30/04	93	
7	Brace Bridge	8/23/04	17	
7	Brace Bridge	8/17/04	50	
7	Brace Bridge	8/9/04	31	59
7	Brace Bridge	8/2/04	53	
7	Brace Bridge	7/26/04	49	
7	Brace Bridge	7/19/04	326	
7	Brace Bridge	7/12/04	46	
7	Brace Bridge	7/6/04	548	
7	Brace Bridge	6/28/04	25	
7	Brace Bridge	6/21/04	55	
7	Brace Bridge	9/24/03	88	
7	Brace Bridge	8/27/03	23	
7	Brace Bridge	8/13/03	47	68
7	Brace Bridge	7/23/03	435	
7	Brace Bridge	6/25/03	36	
8	Spence Bridge	9/17/07	33	
8	Spence Bridge	9/10/07	249	
8	Spence Bridge	8/27/07	29	
8	Spence Bridge	8/20/07	18	
8	Spence Bridge	8/13/07	1990	
8	Spence Bridge	8/6/07	34	
8	Spence Bridge	7/30/07	108	80
8	Spence Bridge	7/23/07	93	
8	Spence Bridge	7/16/07	96	
8	Spence Bridge	7/9/07	236	
8	Spence Bridge	7/2/07	26	
8	Spence Bridge	6/25/07	40	
8	Spence Bridge	6/18/07	75	
8	Spence Bridge	9/19/06	6	
8	Spence Bridge	9/12/06	32	
8	Spence Bridge	9/5/06	36	
8	Spence Bridge	8/22/06	137	
8	Spence Bridge	8/8/06	61	
8	Spence Bridge	8/1/06	248	66
8	Spence Bridge	7/25/06	66	
8	Spence Bridge	7/18/06	125	
8	Spence Bridge	7/11/06	88	
8	Spence Bridge	7/5/06	28	
8	Spence Bridge	6/27/06	186	
8	Spence Bridge	6/20/06	125	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
8	Spence Bridge	9/28/05	54	115
8	Spence Bridge	9/21/05	23	
8	Spence Bridge	9/14/05	141	
8	Spence Bridge	9/7/05	397	
8	Spence Bridge	8/31/05	1990	
8	Spence Bridge	8/24/05	58	
8	Spence Bridge	8/17/05	18	
8	Spence Bridge	8/10/05	35	
8	Spence Bridge	8/3/05	95	
8	Spence Bridge	7/27/05	411	
8	Spence Bridge	7/20/05	71	
8	Spence Bridge	7/13/05	61	
8	Spence Bridge	6/29/05	99	
8	Spence Bridge	6/22/05	816	
8	Spence Bridge	9/27/04	13	66
8	Spence Bridge	9/20/04	20	
8	Spence Bridge	9/13/04	34	
8	Spence Bridge	9/7/04	135	
8	Spence Bridge	8/30/04	124	
8	Spence Bridge	8/23/04	56	
8	Spence Bridge	8/17/04	51	
8	Spence Bridge	8/9/04	31	
8	Spence Bridge	7/26/04	80	
8	Spence Bridge	7/12/04	44	
8	Spence Bridge	7/6/04	866	
8	Spence Bridge	6/28/04	63	
8	Spence Bridge	6/21/04	166	
8	Spence Bridge	9/24/03	141	57
8	Spence Bridge	8/20/03	17	
8	Spence Bridge	8/13/03	41	
8	Spence Bridge	8/6/03	72	
8	Spence Bridge	7/23/03	161	
8	Spence Bridge	6/25/03	29	
9	East Street	9/17/07	30	78
9	East Street	9/4/07	33	
9	East Street	8/27/07	411	
9	East Street	8/20/07	18	
9	East Street	8/13/07	416	
9	East Street	8/6/07	20	
9	East Street	7/30/07	57	
9	East Street	7/23/07	78	
9	East Street	7/16/07	326	
9	East Street	7/9/07	219	
9	East Street	7/2/07	38	
9	East Street	6/25/07	41	
9	East Street	6/18/07	131	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
9	East Street	9/19/06	43	
9	East Street	9/12/06	22	
9	East Street	9/5/06	37	
9	East Street	8/29/06	31	
9	East Street	8/22/06	79	
9	East Street	8/14/06	22	55
9	East Street	8/8/06	55	
9	East Street	8/1/06	110	
9	East Street	7/18/06	179	
9	East Street	7/11/06	61	
9	East Street	7/5/06	38	
9	East Street	6/27/06	172	
9	East Street	9/28/05	24	
9	East Street	9/21/05	34	
9	East Street	9/14/05	66	
9	East Street	9/7/05	228	
9	East Street	8/31/05	2420	
9	East Street	8/24/05	71	
9	East Street	8/17/05	43	
9	East Street	8/10/05	32	114
9	East Street	8/3/05	63	
9	East Street	7/27/05	276	
9	East Street	7/20/05	68	
9	East Street	7/13/05	45	
9	East Street	7/6/05	1120	
9	East Street	6/29/05	85	
9	East Street	6/22/05	488	
9	East Street	9/27/04	23	
9	East Street	9/20/04	24	
9	East Street	9/13/04	28	
9	East Street	9/7/04	37	
9	East Street	8/30/04	326	
9	East Street	8/23/04	60	
9	East Street	8/17/04	93	
9	East Street	8/9/04	39	67
9	East Street	8/2/04	104	
9	East Street	7/26/04	72	
9	East Street	7/19/04	240	
9	East Street	7/12/04	50	
9	East Street	7/6/04	816	
9	East Street	6/28/04	17	
9	East Street	6/21/04	50	
9	East Street	9/24/03	328	
9	East Street	8/27/03	20	
9	East Street	8/20/03	40	
9	East Street	8/13/03	88	66
9	East Street	7/30/03	33	
9	East Street	7/23/03	155	
9	East Street	6/25/03	44	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
10	Bridge Street	9/17/07	41	
10	Bridge Street	9/10/07	517	
10	Bridge Street	8/27/07	1300	
10	Bridge Street	8/20/07	7	
10	Bridge Street	8/13/07	387	
10	Bridge Street	8/6/07	25	
10	Bridge Street	7/30/07	71	100
10	Bridge Street	7/23/07	64	
10	Bridge Street	7/16/07	248	
10	Bridge Street	7/9/07	210	
10	Bridge Street	7/2/07	67	
10	Bridge Street	6/25/07	26	
10	Bridge Street	6/18/07	127	
10	Bridge Street	9/19/06	28	
10	Bridge Street	9/12/06	14	
10	Bridge Street	9/5/06	26	
10	Bridge Street	8/29/06	26	
10	Bridge Street	8/22/06	78	
10	Bridge Street	8/14/06	18	
10	Bridge Street	8/8/06	61	57
10	Bridge Street	8/1/06	131	
10	Bridge Street	7/25/06	57	
10	Bridge Street	7/18/06	201	
10	Bridge Street	7/11/06	69	
10	Bridge Street	7/5/06	57	
10	Bridge Street	6/27/06	228	
10	Bridge Street	6/20/06	130	
10	Bridge Street	9/28/05	31	
10	Bridge Street	9/21/05	33	
10	Bridge Street	9/14/05	83	
10	Bridge Street	9/7/05	222	
10	Bridge Street	8/31/05	687	
10	Bridge Street	8/24/05	206	
10	Bridge Street	8/17/05	55	
10	Bridge Street	8/10/05	46	129
10	Bridge Street	8/3/05	79	
10	Bridge Street	7/27/05	548	
10	Bridge Street	7/20/05	90	
10	Bridge Street	7/13/05	38	
10	Bridge Street	7/6/05	980	
10	Bridge Street	6/29/05	60	
10	Bridge Street	6/22/05	770	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
10	Bridge Street	9/27/04	13	
10	Bridge Street	9/20/04	13	
10	Bridge Street	9/13/04	45	
10	Bridge Street	9/7/04	40	
10	Bridge Street	8/30/04	194	
10	Bridge Street	8/23/04	93	
10	Bridge Street	8/17/04	61	
10	Bridge Street	8/9/04	23	60
10	Bridge Street	8/2/04	141	
10	Bridge Street	7/26/04	47	
10	Bridge Street	7/19/04	308	
10	Bridge Street	7/12/04	45	
10	Bridge Street	7/6/04	579	
10	Bridge Street	6/28/04	18	
10	Bridge Street	6/21/04	72	
10	Bridge Street	9/24/03	328	
10	Bridge Street	9/17/03	140	
10	Bridge Street	9/10/03	14	
10	Bridge Street	9/3/03	36	
10	Bridge Street	8/27/03	23	
10	Bridge Street	8/20/03	73	115
10	Bridge Street	8/13/03	49	
10	Bridge Street	7/30/03	62	
10	Bridge Street	7/23/03	261	
10	Bridge Street	7/16/03	1120	
10	Bridge Street	7/9/03	1553	
10	Bridge Street	6/25/03	101	
11	Cemetary	9/17/07	43	
11	Cemetary	9/10/07	629	
11	Cemetary	9/4/07	26	
11	Cemetary	8/27/07	35	
11	Cemetary	8/20/07	13	
11	Cemetary	8/13/07	150	
11	Cemetary	8/6/07	22	58
11	Cemetary	7/30/07	62	
11	Cemetary	7/23/07	46	
11	Cemetary	7/16/07	54	
11	Cemetary	7/9/07	201	
11	Cemetary	7/2/07	52	
11	Cemetary	6/25/07	40	
11	Cemetary	6/18/07	70	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
11	Cemetary	9/19/06	22	
11	Cemetary	9/12/06	15	
11	Cemetary	9/5/06	20	
11	Cemetary	8/29/06	28	
11	Cemetary	8/22/06	72	
11	Cemetary	8/14/06	22	
11	Cemetary	8/8/06	83	55
11	Cemetary	8/1/06	114	
11	Cemetary	7/25/06	59	
11	Cemetary	7/18/06	172	
11	Cemetary	7/11/06	52	
11	Cemetary	7/5/06	55	
11	Cemetary	6/27/06	214	
11	Cemetary	6/20/06	144	
11	Cemetary	9/28/05	40	
11	Cemetary	9/21/05	38	
11	Cemetary	9/7/05	166	
11	Cemetary	8/31/05	2420	
11	Cemetary	8/24/05	153	
11	Cemetary	8/10/05	52	
11	Cemetary	8/3/05	95	167
11	Cemetary	7/27/05	613	
11	Cemetary	7/20/05	166	
11	Cemetary	7/13/05	47	
11	Cemetary	7/6/05	921	
11	Cemetary	6/29/05	101	
11	Cemetary	6/22/05	387	
11	Cemetary	9/27/04	13	
11	Cemetary	9/13/04	365	
11	Cemetary	9/7/04	23	
11	Cemetary	8/30/04	248	
11	Cemetary	8/23/04	33	
11	Cemetary	8/17/04	56	
11	Cemetary	8/2/04	111	76
11	Cemetary	7/26/04	42	
11	Cemetary	7/19/04	299	
11	Cemetary	7/12/04	50	
11	Cemetary	7/6/04	461	
11	Cemetary	6/28/04	25	
11	Cemetary	6/21/04	71	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
11	Cemetary	9/24/03	236	162
11	Cemetary	8/20/03	86	
11	Cemetary	7/23/03	276	
11	Cemetary	6/25/03	122	
101	Weaver Brook	9/7/05	18	NA
101	Weaver Brook	7/27/05	75	
101	Weaver Brook	6/29/05	61	
101	Weaver Brook	6/28/04	11	NA
101	Weaver Brook	8/27/03	1	NA
102	Jones Brook	9/17/07	5	9
102	Jones Brook	8/27/07	7	
102	Jones Brook	7/23/07	14	
102	Jones Brook	6/25/07	12	
102	Jones Brook	9/28/05	98	65
102	Jones Brook	8/31/05	435	
102	Jones Brook	7/27/05	142	
102	Jones Brook	6/29/05	3	
102	Jones Brook	9/27/04	10	10
102	Jones Brook	8/30/04	26	
102	Jones Brook	7/26/04	6	
102	Jones Brook	6/28/04	7	
102	Jones Brook	8/27/03	2	NA
103	Cobb Brook	9/17/07	5	5
103	Cobb Brook	8/27/07	3	
103	Cobb Brook	7/23/07	3	
103	Cobb Brook	7/2/07	11	
103	Cobb Brook	9/19/06	1	11
103	Cobb Brook	8/29/06	6	
103	Cobb Brook	7/25/06	34	
103	Cobb Brook	6/27/06	78	
103	Cobb Brook	9/28/05	6	11
103	Cobb Brook	8/31/05	816	
103	Cobb Brook	8/24/05	43	
103	Cobb Brook	8/10/05	15	
103	Cobb Brook	7/27/05	44	
103	Cobb Brook	6/29/05	0	
103	Cobb Brook	8/30/04	34	NA
103	Cobb Brook	7/26/04	16	
103	Cobb Brook	6/28/04	1	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
103	Cobb Brook	8/20/03	5	NA
104	Carpenter Brook	9/19/06	16	NA
104	Carpenter Brook	7/25/06	17	
104	Carpenter Brook	6/27/06	102	
104	Carpenter Brook	9/28/05	8	83
104	Carpenter Brook	8/31/05	2420	
104	Carpenter Brook	8/24/05	7	
104	Carpenter Brook	8/24/05	71	
104	Carpenter Brook	8/17/05	77	
104	Carpenter Brook	8/17/05	4	
104	Carpenter Brook	8/10/05	1120	
104	Carpenter Brook	7/27/05	488	
104	Carpenter Brook	6/29/05	114	
104	Carpenter Brook	8/30/04	127	102
104	Carpenter Brook	8/17/04	45	
104	Carpenter Brook	8/2/04	46	
104	Carpenter Brook	7/26/04	517	
104	Carpenter Brook	7/6/04	201	
104	Carpenter Brook	6/28/04	42	
105	Brushy Brook	9/17/07	16	16
105	Brushy Brook	8/27/07	10	
105	Brushy Brook	8/20/07	22	
105	Brushy Brook	7/23/07	16	
105	Brushy Brook	6/25/07	20	
105	Brushy Brook	9/19/06	6	45
105	Brushy Brook	8/29/06	37	
105	Brushy Brook	7/25/06	185	
105	Brushy Brook	6/27/06	96	
105	Brushy Brook	9/7/05	13	172
105	Brushy Brook	8/31/05	2420	
105	Brushy Brook	8/24/05	2420	
105	Brushy Brook	7/27/05	345	
105	Brushy Brook	7/13/05	31	
105	Brushy Brook	7/6/05	192	
105	Brushy Brook	6/29/05	29	
105	Brushy Brook	9/27/04	8	67
105	Brushy Brook	9/20/04	39	
105	Brushy Brook	9/13/04	31	
105	Brushy Brook	9/7/04	411	
105	Brushy Brook	8/30/04	435	
105	Brushy Brook	8/2/04	54	
105	Brushy Brook	8/20/03	12	NA

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
106	Hollow Brook	9/17/07	10	56
106	Hollow Brook	8/27/07	28	
106	Hollow Brook	8/20/07	23	
106	Hollow Brook	7/23/07	80	
106	Hollow Brook	7/2/07	193	
106	Hollow Brook	6/25/07	326	
106	Hollow Brook	9/19/06	36	64
106	Hollow Brook	8/29/06	30	
106	Hollow Brook	7/25/06	34	
106	Hollow Brook	6/27/06	461	
106	Hollow Brook	9/28/05	27	244
106	Hollow Brook	8/31/05	2420	
106	Hollow Brook	7/27/05	291	
106	Hollow Brook	6/29/05	186	
106	Hollow Brook	9/27/04	18	66
106	Hollow Brook	8/30/04	82	
106	Hollow Brook	7/26/04	77	
106	Hollow Brook	6/28/04	162	
106	Hollow Brook	8/20/03	30	NA
107	Fargo Brook	7/23/07	9	NA
107	Fargo Brook	6/25/07	3	
107	Fargo Brook	8/29/06	7	NA
107	Fargo Brook	7/25/06	84	
107	Fargo Brook	6/27/06	156	
107	Fargo Brook	9/28/05	7	72
107	Fargo Brook	8/31/05	2420	
107	Fargo Brook	7/27/05	225	
107	Fargo Brook	6/29/05	7	
107	Fargo Brook	9/27/04	14	35
107	Fargo Brook	8/30/04	248	
107	Fargo Brook	7/26/04	44	
107	Fargo Brook	7/12/04	36	
107	Fargo Brook	6/28/04	9	
107	Fargo Brook	9/24/03	46	NA

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

**Only geometric mean values calculated with 5 data points or more are used to determine percent reduction.

Table 1: *E.coli* (organisms/100 mL) Data for Huntington River (2004-2007) and Geometric Mean (organisms/100mL) for each Station based on Calendar Year (continued).

Station Name	Station Location	Date	Result	Geometric Mean**
109	Sherman Hollow Brk dnstrm	8/31/05	69	NA
109	Sherman Hollow Brk dnstrm	8/3/05	111	
109	Sherman Hollow Brk dnstrm	6/29/05	14	
109	Sherman Hollow Brk dnstrm	9/27/04	32	NA
109	Sherman Hollow Brk dnstrm	7/26/04	30	
109	Sherman Hollow Brk dnstrm	7/6/04	816	
109	Sherman Hollow Brk dnstrm	7/16/03	91	NA
207	Sherman Hollow Brk upstrm	6/29/05	5	NA
207	Sherman Hollow Brk upstrm	7/26/04	44	39
207	Sherman Hollow Brk upstrm	7/6/04	37	
208	Carpenter Brook Upstream	8/30/04	45	
208	Carpenter Brook Upstream	8/2/04	33	
209	Brushy Taft Bridge	7/13/05	29	NA
209	Brushy Taft Bridge	6/29/05	17	
209	Brushy Taft Bridge	9/27/04	8	8
209	Brushy Taft Bridge	9/20/04	3	
209	Brushy Taft Bridge	9/13/04	7	
209	Brushy Taft Bridge	9/7/04	14	
209	Brushy Taft Bridge	6/28/04	15	
210	Brushy trib Culvert	7/25/06	51	NA
210	Brushy trib Culvert	9/7/05	579	480
210	Brushy trib Culvert	8/17/05	2420	
210	Brushy trib Culvert	7/13/05	130	
210	Brushy trib Culvert	7/6/05	1120	
210	Brushy trib Culvert	6/29/05	125	
210	Brushy trib Culvert	9/27/04	98	NA
210	Brushy trib Culvert	9/20/04	1410	
210	Brushy trib Culvert	9/13/04	1730	

*Shaded cells indicate single sample and geometric mean used to calculate percent reduction.

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