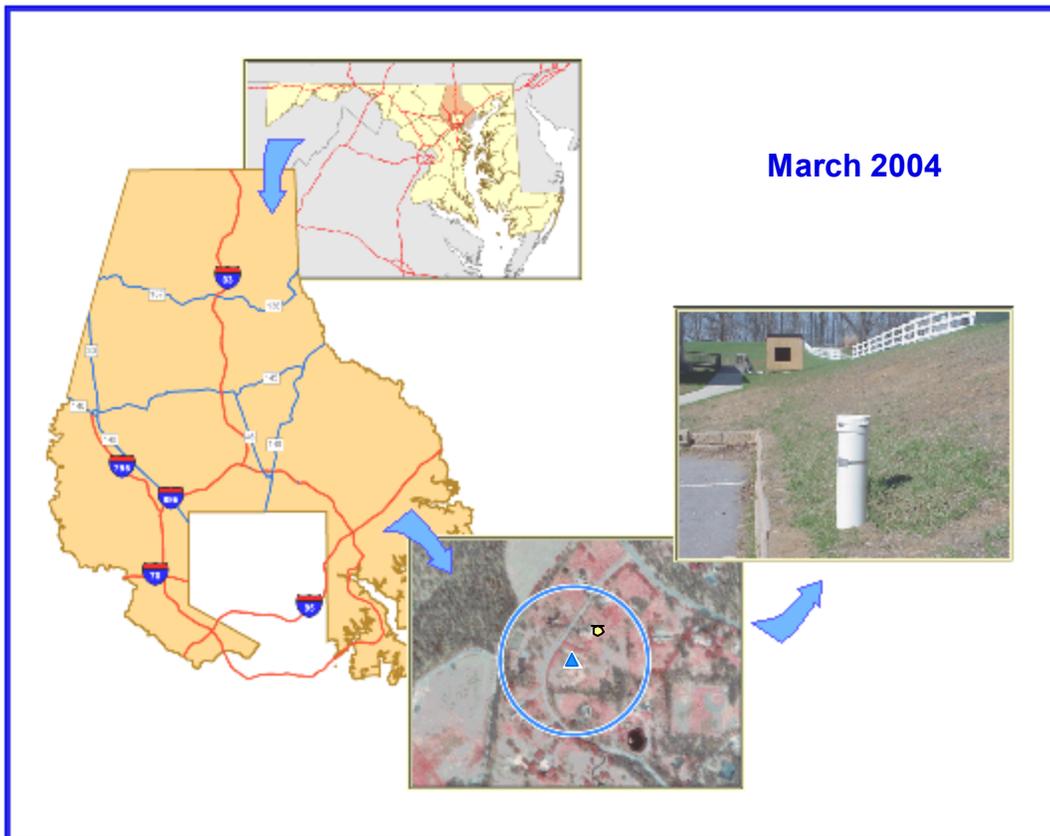


Source Water Assessment for Small, Transient, Non-Community Public Water Systems in Baltimore County, Maryland



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Executive Summary

This report presents the results of a Source Water Assessment for 200 small, transient, non-community public water systems (PWS) in Baltimore County, Maryland. The assessment was performed in accordance with the 1996 amendments to the Safe Drinking Water Act, and Maryland's Source Water Assessment Plan. For these systems, the assessment includes 1) a delineation of the boundaries of areas providing source waters to the systems, 2) an inventory of significant potential sources of contamination, and 3) a determination of the susceptibility of public water systems to specific contaminants.

Water-quality data for the transient systems, spanning the period from 1993 to 2002, were reviewed in paper and electronic copies. As per Maryland's requirements, these results were compared to levels equivalent to one-half the Maximum Contaminant Level (MCL). If more than 10% of samples exceeded this level, an analysis was completed for that contaminant.

Analyses of nitrate/nitrite were reviewed for all the systems. Nitrate is a naturally-occurring ion that is also a contaminant associated with agricultural fertilizers and septic systems/sewage. Of the systems reviewed, 53% exceeded one-half of the MCL in more than 10% of samples. Twenty-five of these systems (13%) exceeded the existing regulatory limit of 10 mg/L at least once.

Analytical data for coliform bacteria were also reviewed. Twenty-two percent (22%) of these PWS had tested positive for total coliform in at least 10% of the samples. Three systems (2%) had tested positive for fecal coliform.

Source Water Assessment Areas (SWAAs) were determined for each system based upon the local hydrogeology and the average groundwater usage of each system. PWS drawing water from unconfined fractured bedrock aquifers were assigned SWAAs defined by a 1,000 foot radius from the active wells. Systems sourced in unconfined aquifers of the coastal plain were assigned wedge-shaped SWAAs oriented according to the groundwater flow direction. Wells drawing water from confined aquifers in the coastal plain were not assigned SWAAs, as they are assumed to be protected from surficial contamination sources. Locations of wells were determined from GPS coordinates collected during site visits to each system.

Generally, land use within each SWAA includes mixtures of low-density residential with agricultural areas, forested land, and institutional areas such as the schools and churches served by the PWS. For the majority of PWS, the dominant land use within the SWAA either agricultural (40%) or residential (23%). When the total land used within each SWAA was estimated from aerial imagery, agricultural and residential land comprised 35% and 25% respectively, with the remainder consisting of forested land, commercial land, industrial areas, major transportation corridors, golf courses, and institutional lands. None of the relevant PWS is served by city water or sewer systems, although areas in sewer service do impinge on about 5% of the SWAAs.

The following potential contaminant sources were identified and inventoried during site visits: underground storage tanks (USTs), documented generators of hazardous substances, land disposal sites, mined areas, and areas of salt water intrusion. For the 200 systems, nearly 40% of the SWAAs included at least one active or out-of-service underground storage tank containing heating oil, gasoline, and/or diesel fuel. About 17% of the SWAAs encompassed at least one documented hazardous substance generator including telephone substations, hazardous waste sites, and industrial sites. Smaller numbers of SWAAs included discharges to groundwater, CERCLIS sites, mined lands, and landfills.

All of the SWAAs defined in this report are for water obtained from unconfined aquifers that are in communication with the overlying unconsolidated sediments (alluvium or regolith). They are therefore susceptible to contamination from surficial sources such as those identified above.

A regional susceptibility analysis completed for the 200 systems concluded that they are most susceptible to nitrate contamination from agricultural and septic sources, and BTEX and MTBE contamination from underground fuel tanks. Many systems appear susceptible to coliform contamination, although poor surface seals or other sanitary issues may be a greater concern than groundwater contamination and migration.

Based upon this review, recommendations to system operators and regulators include the following:

- Maintaining the sanitary integrity of the well, treatment system(s), and all above-ground portions of the water-supply system
- Installation of physical barriers to damage for wells in trafficked areas
- Potential modifications to monitoring requirements for BTEX, MTBE, and VOCs
- Additional coliform and/or other testing of wells within below-ground vaults to test for impacts of flooding
- Awareness of changing land use within the SWAAs and implementation of appropriate changes to groundwater monitoring as development occurs
- Consideration of Source Water Assessment during planning of land use, e.g. in revising zoning, and providing permits for construction of facilities likely to be Potential Contaminant Sources (e.g. gas stations, industrial facilities)

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REPORT

Section 1

Introduction

The 1996 Amendments to the Safe Drinking Water Act (SDWA) affirmed the importance of source water protection for maintaining drinking water quality. The Maryland Department of the Environment (MDE) is currently implementing a program to complete Source Water Assessments (SWAs) for sources of groundwater used as public water supplies throughout the state.

This report presents the results of the SWA for *small, transient, non-community* public water systems (PWS) in Baltimore County, Maryland. Two hundred (200) public water systems identified by MDE are covered. The work was carried out by S.S. Papadopoulos & Associates, Inc. (SSP&A) and Chesapeake Environmental Management (CEM) under contract to the MDE.

As defined in the Maryland Code of Regulations (COMAR 26.04.01.01) *community* public water systems serve at least 15 service connections used by year-round residents, or regularly serve at least 25 residents throughout the year. The systems covered by this report, are *non-community*. They are also classified as *transient* systems because they do not regularly serve more than 25 of the same individuals over six (6) months per year. All of the systems covered by this report are considered *small* as they average less than 10,000 gallons per day (gpd) of water for use.

A formalized Source Water Assessment Program (SWAP) consists of:

- 1) delineating the boundaries of areas providing source waters for public systems,
- 2) inventorying significant potential sources of contamination, and
- 3) determining the susceptibility of the public water system to such contaminants as mandated by the SDWA.

In accordance with these three elements, this report presents for each of the subject PWS, a map delineating the boundaries of the areas providing water to the system – the Source Water Assessment Area (SWAA). Potential sources of contamination (PCSs) are also inventoried and shown on the maps for each system. The methodologies for defining SWAAs and identifying PCSs are defined in Maryland’s Source Water Assessment Program (MDE, 1999). These are explained in detail in appropriate sections of the report.

As per Maryland’s SWAP (MDE, 1999), the report also presents a Susceptibility Analysis for the transient, non-community systems. This analysis is completed on a regional basis, considering collectively the SWAAs, PCSs and other factors for the transient, non-community systems.

Finally, the report concludes with recommendations for protecting the water supplies for the transient, non-community water systems.

The 200 PWS shown in Table 1 and Figure 1 were identified by MDE as meeting the criteria for small, transient, non-community systems. These systems are composed of 231 individual wells or “sources” (Table 2). Information on the system locations, contacts, wells, and water treatment was provided to SSP&A by the MDE from the Water Supply Program database, and updated as the project progressed.

PWS records were reviewed at the offices of the MDE and Baltimore County Health Department. This included the most recent sanitary survey form for each site, well construction logs, water sampling data, and any other pertinent information in MDE’s files for each system. Water-quality data were also obtained in electronic database format from MDE. SSP&A provided updated information to MDE based upon these file reviews.

Section 2

Hydrogeology of Baltimore County

The ultimate source of all groundwater in Baltimore County is precipitation – rain and snow that fall to the earth (Trapp and Horn, 1997). The portion of precipitation that does not flow on the surface to streams can infiltrate into the ground through soil and rock. Once beneath the surface, this water infiltrates toward the zone in which all openings are filled with water – the *saturated zone*. Water in the saturated zone is called *groundwater*.

Groundwater moves at a generally slow pace through tiny holes and fractures in soil and rock. These openings are called *porosity*. Some types of rocks and sediments have a greater porosity and/or allow water to flow more freely than do others. Sands and gravels, for example, transmit water more easily than does clay, as the spaces between grains of sand are much larger than the spaces between clay particles. These materials are said to be more “*permeable*.” Similarly, rocks composed of sand and gravel (sandstones and conglomerates) tend to be more permeable than rocks made primarily of clays (shales). In metamorphic and igneous rocks such as gneiss and granite, fractures usually provide most of the porosity and permeability.

A geologic unit capable of supplying useable amounts of groundwater to a well or spring is called an *aquifer* (Heath, 1983). Aquifers may be composed of sands, gravels, limestones, granites, or other materials. When water only partly fills an aquifer and the upper surface of the saturated zone is free to rise and fall, the aquifer and its water are considered *unconfined* (Heath, 1983). The top water surface in such aquifers is called the *water table*.

In contrast, a geologic unit with low permeability and/or porosity that is not capable of supplying or transmitting useable amounts of water is called an *aquitard*. When this type of rock unit restricts the movement of groundwater into or out of adjacent aquifers, it is called a *confining* bed or unit (Heath, 1983). The underlying aquifer is considered *confined*.

Baltimore County covers an area of approximately 600 square miles and has a population of about 750,000 (Maryland Department of Business & Economic Development, 2002). The county straddles two physiographic provinces, the Piedmont province to the northwest and Atlantic Coastal Plain to the southeast. The dividing line between these two provinces, which is situated approximately along the trace of Route 95, is called the Fall Line (Figure 1).

The Piedmont physiographic province in Baltimore County consists of generally rolling topography of low to moderate elevation. It is underlain by metamorphic and igneous rocks of Paleozoic age (Figure 2; Crowley, 1976). Consequently, the aquifers in this region consist of fractured bedrock. On top of the bedrock is a layer of weathered rock and soil that may be just a trace or more than 100 feet thick (LeGrand, 1988, 1989; Figure 3). The Coastal Plain physiographic province consists of layered sediments and sedimentary rocks of Cretaceous and younger ages. These include both unconfined and confined aquifers. Small coastal plain public

water systems in Baltimore County typically retrieve water from either unconsolidated surficial deposits or the Patapsco Aquifer, a major regional aquifer that is confined in places.

The majority of systems covered by this report obtain water from fractured bedrock aquifers in the Piedmont province. Aquifers tapped by these systems include the Loch Raven Schist, the Prettyboy Schist, the Baltimore Gneiss, and Cockeysville Marble (Figure 2). These aquifers are unconfined and are in communication with the overlying unconsolidated sediments (regolith). Commonly, the top of the saturated zone (the water table) lies close to the top of bedrock, within the regolith. The regolith is generally more porous than the bedrock and therefore can provide a large amount of water to wells screened in the underlying bedrock (LeGrand, 1988; Trapp and Horn, 1997). The level of the water table fluctuates annually, and over longer periods of time due to changes in precipitation and infiltration. Normally, this fluctuation is on the order of several feet.

In the Maryland Piedmont, groundwater flow in the crystalline bedrock tends to be localized and dominated by flow to perennial streams within small topographic basins. There is relatively little inter-basin flow (LeGrand, 1988, 1989). Because groundwater flow in the bedrock aquifers occurs primarily in fractures, and because these fractures generally decrease in size and interconnectedness with depth, the zone of significant bedrock groundwater flow also decreases with depth. The base of the zone of useable water is diffuse and variable. For the Piedmont province as a whole, LeGrand (1988) indicates that useable amounts of groundwater are rarely obtainable from below a depth of approximately 400 feet.

In contrast, in the Coastal Plain of Maryland, groundwater flow tends to be regional. It is largely controlled by the characteristics and extent of regional aquifers and aquitards that extend through not only Maryland, but also Delaware, Virginia, and New Jersey. As shown in Figure 4, these coastal plain aquifers form wedge-shaped units that thicken seaward. Groundwater that enters these units tends to flow laterally within the same aquifer, generally flowing seaward, or “downdip,” except where flow is altered by pumping or other local factors.

For the transient PWS in Baltimore County, the Coastal Plain aquifer of most concern is the Patapsco Aquifer, one of the shallowest of aquifers that fall within the Potomac Group (Vroblesky and Fleck, 1991). This unit can be considered an unconfined aquifer where it outcrops at the surface or is overlain solely by similar permeable units, or a confined aquifer where it is overlain by a less permeable confining unit (Figure 4).

Within the Coastal Plain of Baltimore County, the Patapsco Aquifer is at or near the surface for many of the transient systems. Although the groundwater flowing to these wells may be confined by local lenses of clay or silt, in the absence of more detailed local geologic information, or the results of pumping tests performed on these wells, it is impossible to be certain that these systems are drawing water from a confined portion of the aquifer. Indeed, elevated nitrate levels in some wells suggest a surface connection. In order to be conservative, Coastal Plain wells in Baltimore County are treated as deriving their water from unconfined aquifers unless well construction records or water-quality data indicate otherwise.

Section 3

Review of Water-Quality Data

We have reviewed water-quality data from all of the public water systems described in this report. The initial data were supplied electronically to SSP&A from the MDE Water Supply Program database; these consisted of approximately 2,600 records of bacteriological and nitrate analyses. Paper records of water-quality analyses were also reviewed at the Baltimore County Health Department for quality control purposes, and to supplement the electronic data. From this review, an additional 2572 records of bacteriological and nitrate data were added to the working database (Table 3).

These data are the collective results of regular sampling events from 1993 to 2002, with most of the analyses spanning 1996 to 2002 (Figure 5). Many of the records represent samples of water at the point of use, often subsequent to treatment. Consequently, these results must be interpreted as an indicator of source water quality with caution.

For Public Water Systems sourced in groundwater, MDE's Source Water Assessment Program requires that if a contaminant is detected at greater than 50% of its regulatory concentration limit in 10% or more of the data, then a detailed analysis will be completed for that contaminant. The following contaminants are considered in the assessment:

- Nitrate/nitrite
- Total/Fecal Coliform
- Protozoa
- Viruses

The current assessment is limited by the data available in MDE's and Baltimore County's files. Since protozoa and viruses are not routinely analyzed or reported for these systems, there are no data with which to make an assessment. The other contaminants are addressed below.

Nitrate

Nitrate (NO_3^-) is a naturally-occurring form of nitrogen dissolved in groundwater. Its concentration in groundwater depends upon the nature of soil and/or bedrock through which groundwater has traveled, as well as the groundwater conditions at the sampling location. Depending upon the groundwater conditions, nitrate and other nitrogen ions (e.g. nitrite and ammonia) may be converted into each other through chemical reactions known as oxidation-reduction, or redox reactions. These reactions can change the measured concentrations of nitrate in response to changing environmental conditions. In general, nitrate is the most stable form of nitrogen in groundwater.

Elevated levels of nitrate may pose a health risk to humans and livestock, particularly for newborn infants. As a result, the U.S. Environmental Protection Agency (USEPA) has set an MCL of 10 mg/L for nitrate in drinking water. Public water systems routinely test for nitrate during sampling events. Two of the primary man-made sources of nitrate to groundwater are septic systems and fertilizers. Both of these sources provide nitrogen compounds that may ultimately break down to nitrate.

For the transient, non-community PWS in Baltimore County, there were 1168 analyses of nitrate in water sampling data (Table 4). Of the 200 systems, 109 systems (55%) recorded at least one sample result that exceeded one-half the MCL (Figure 6). Most of these systems, (106, or 53% of the total) exceeded one-half of the nitrate MCL in more than 10% of samples (Tables 4 & 5). Twenty-five of these systems (13%) exceeded the existing regulatory limit of 10 mg/L.

These results are somewhat higher than those reported by the Maryland Geological Survey in 1998 (Bolton, 1998). In that study, water samples from 112 wells in the Piedmont province were sampled for a variety of organic and inorganic contaminants. About 5% of these samples had nitrate levels exceeding the MCL, and about 36% of the samples exceeded one-half the MCL. As only 2 of the eleven PWS sited in the coastal plain reported elevated nitrate levels, their inclusion in these statistics do not significantly alter this comparison.

Total Coliform and Fecal Coliform

Total coliforms are a group of closely related, mostly harmless bacteria that live in soil and water as well as the gut of animals. The extent to which total coliforms are present in source water can indicate the general quality of that water and the likelihood that the water is contaminated with fecal matter from animals or humans. Total coliforms are currently controlled in drinking water regulations (Total Coliform Rule) because their presence above the standard indicates problems in treatment or in the distribution system. EPA requires all PWS to monitor for total coliforms in distribution systems. If total coliforms are found, then the public water system must further analyze that total coliform-positive sample to determine which specific types of coliforms (i.e., fecal coliforms or *E. coli*) are present.

The frequency of sampling for PWS depends upon the number of people served by the system, the system's water-quality history, and waivers granted by the state. The systems covered by this report are generally sampled monthly or quarterly.

Of the 200 subject PWS, there were 59 systems (30%) that had at least one positive total coliform sample (Tables 6 & 7). Twenty-two percent (22%) of the systems tested positive for total coliform in 10% or more of the samples. Of these three systems (2%) have tested positive for fecal coliform, in either routine or repeat sampling. The presence of fecal coliform indicates that the system is in communication with sources of fecal matter from human or animal wastes. This contamination may occur in the subsurface as waste migrates away from septic systems or areas of concentrated animal waste like feed lots. More likely, it results from surface contamination due to poor surface seals, or piping problems. Baltimore County and the state of

Maryland require that water supply wells be located no closer than 100 feet from septic systems. However, leaks from septic systems, soil and rock types present, direction of groundwater flow, and depth to groundwater all influence the degree of susceptibility of the system to contamination from septic systems.

Section 4

Source Water Assessment Areas

A fundamental part of the Source Water Assessment is the determination of a Source Water Assessment Area (SWAA). The goal of this determination is to estimate the area from which the well draws water, and evaluate the land use and presence of specific potential contaminant sources (PCSs). The following section describes the methods used, and the results of that determination. Maps of each system showing its SWAA are included in Appendix A.

Methods

Maryland's Source Water Assessment Plan requires that every PWS be visited, that the sources (wells) for that system be located with GPS equipment to a specified accuracy, and that all potential contaminant sources in the vicinity be identified. In addition, the land use of the area surrounding the system must be verified, the most recent sanitary survey for the system reviewed, and each well visually inspected. Finally, a Source Water Assessment Area is determined for the site by a method based upon geologic conditions and the amount of water pumped from the system.

Systems and Sources - Review and Validation

The list of PWS and Sources was obtained from the MDE Water Supply Program in late 2002. Prior to any site visits, paper files in the MDE's offices, and Baltimore County Health Department offices were reviewed and the working database updated. Types of information updated from these files included the addition of new wells, well depths, well names and contact information for the system owners/operators. During review of the sanitary surveys, all deficiencies were noted in the working database.

Based upon information in the MDE database, SSP&A generated preliminary maps of the Source Water Assessment Area for each system. These served as the basis for site visits. In addition, the owners/operators of each system were contacted prior to site visits, and system information was updated based upon both these contacts and the site visits.

Site Visits and Development of SWAAs

Once the site operator/owner's permission was granted, each system was visited at least once in order to obtain the necessary information. Each source was located, PCSs were verified or added to the list, and each well head was visually inspected. The area surrounding the system was visually surveyed for land use and PCSs. During site visits, geographic coordinates were obtained for each well and PCS using Trimble® GPS instruments. These coordinates were post-processed using data from a base-station of known fixed position. The accuracy of these locations is generally within several feet.

When wells were situated inside buildings or otherwise inaccessible, the geographic coordinates could not be obtained directly. In these cases, they were estimated using aerial photographs and coordinates collected from a known position. The coordinates obtained in the field comprise the basis for development of the final SWAAs.

Maryland's SWAP defines the methods to be used for determining SWAAs, based upon the local hydrogeology and the average groundwater usage of each system. Systems that produce water from unconfined fractured bedrock aquifers are assigned Source Water Assessment Areas defined by a 1,000-foot radius from the active wells. This SWAA is based upon the calculated land area needed to provide a 10,000-gpd yield, assuming 400 gpd/acre recharge and a safety factor.

For small PWS in the coastal plain physiographic province, the determination of a SWAA depends upon whether the well is screened in confined or unconfined units. When a well is screened in an unconfined aquifer, then the SWAA is a wedge shape (60 degree arc) defined by the interpreted groundwater flow direction and a 100-foot buffer around the well head. PWS screened in confined aquifers are not assigned SWAAs as they are assumed to be protected from surficial sources of contamination.

To ascertain whether an aquifer is confined or unconfined requires analysis of water level responses to pumping or detailed information on local geologic conditions. Generally this information was not available for the small systems covered by this report. Consequently, we relied upon information on well depths, reported screen intervals, local topography, and regional geologic and hydrogeologic information in assigning the SWAAs to each of these systems. The results are summarized in Table 8.

The SWAAs are represented on the maps in Appendix A.

Land Use

Maryland's SWAP requires that the following land uses be considered:

- Agricultural lands
- Forested lands
- Residential
 - Private sewage disposal systems
 - Areas in sewage service
- Industrial areas
- Commercial areas
- Public lands
- Mined lands

Evaluation of land use was initiated by obtaining Geographic Information System (GIS) files for Baltimore County from the Maryland Departments of the Environment and Planning. This information included sewer coverage, year 2000 Land Use data, and digital orthoquad aerial

photographic images (Figures 7 & 8). During site visits, and during preparation of final maps, the land use was confirmed for each system individually.

Land use within each SWAA typically included mixtures of low-density residential with agricultural areas; institutional areas such as the schools and churches served by the PWS are also common (Table 1; Appendix A). For each SWAA, the dominant land use was determined based upon the site visits, with support from aerial photographs and the Baltimore County year 2000 land use classification.

Figure 9 shows the land use for the 200 transient PWS. More than 60% of these SWAAs are dominantly residential or agricultural. In many cases, the land use consists of sub-equal amounts of residential and agricultural, or residential and commercial properties. As a separate measure, the actual land use within each SWAA was visually estimated from the aerial imagery. In this interpretation, the land use for residential and agricultural are similar (25 % versus 35 %), with significant percentages due to forested land, commercial land, and institutional lands (e.g. churches, schools).

The sewer coverage for Baltimore county is indicated on Figure 8. Both the existing coverage and planned coverage within the 6-year capital planning program are shown. None of the transient systems discussed is served by public sewers, although 9 of the SWAAs associated with the 200 transient systems do intercept areas served by public sewer systems. As a result, the SWAAs of these systems typically encompass not only the septic systems of the PWS, but also adjacent residential and institutional properties. These septic systems were not individually catalogued during the Source Water Assessment.

Potential Contaminant Sources

Under Maryland's SWAP, for PWS sourced in groundwater the following types of PCSs must be identified and inventoried:

- Ground water discharge permits
- Land disposal sites (e.g. landfills, CERCLA sites)
- Underground storage tanks
- Coal mining areas
- Salt water intrusion

As a starting point, data from the following databases were used:

- USEPA's CERCLIS database
- Maryland's UST database
- Maryland's database of groundwater discharge permits
- Maryland's database of controlled hazardous substance (CHS) generators
- Maryland's database of pesticide dealers

These locations were mapped on the preliminary maps used during site visits. An attempt was made to verify each of these PCSs in the field and obtain GPS coordinates for the location; if a PCS had been removed or could not be verified, it was removed from the list. When it was not possible to obtain permission to directly observe a PCS on private property, the coordinates were estimated based upon the property location.

During site visits, the area around each system was surveyed for additional PCSs which were then added to the database. The majority of new PCSs were fuel oil and gasoline station underground storage tanks (Tables 9 & 10). In some cases, underground storage tanks were noted as “permanently out of service” in the MDE database. If we could not confirm that the tank had been removed from the ground, then it was included as a PCS. Underground storage tanks for propane were identified at a number of locations, but these were excluded from the analysis due to their minimal likelihood of causing groundwater contamination.

Of the SWAAs for the 200 systems, 36% encompassed at least one underground storage tank containing heating oil, gasoline, and/or diesel fuel. Five (5) SWAAs (or 3% of the total) encompassed an out-of-service tank, although two of these also included in-service USTs (Figure 9). About 17% of the SWAAs encompassed at least one documented CHS generator. These included telephone substations, hazardous waste sites, and industrial sites. Landfills, CERCLIS sites, and discharge to groundwater locations were also found within SWAAs. The risks associated with these specific PCSs will vary depending upon the use. CHS generators may use only very small quantities of hazardous substances. The discharge to groundwater locations were registered with the state and confirmed in the field, but may not currently be in use, or contribute appreciable volumes of material to groundwater. The discharge to groundwater locations includes one disposal well at a veterinary clinic, and a wash pad at an auto service location. The actual use or risk associated with these has not been evaluated.

Section 5

Susceptibility Analysis

Under MDE's SWAP, the four factors to be considered in Susceptibility Analyses are:

- Presence of Contaminant Sources within the SWAA
- Natural conditions in the aquifer/watershed capable of removing and/or reducing the impact of contaminants before reaching the sources
- Likelihood of contaminants or conditions changing the natural equilibrium, thereby affecting safety of a water supply, and
- Integrity of the well.

The susceptibility analysis for the 200 transient, non-community PWS in Baltimore County is summarized in Figure 10. Although the systems are sourced within both fractured bedrock and unconfined coastal plain aquifers, the susceptibility analysis treats the hydrogeological environments of all systems in a similar manner. All of the systems draw water from relatively shallow unconfined units, and there is insufficient site-specific information with which to distinguish meaningfully between shallow conditions in the physiographic provinces.

Potential and Actual Contaminant Sources

As discussed above, more than one-third of the SWAAs contained at least one underground storage tank containing heating oil, gasoline, and/or diesel fuel. About 17% of the SWAAs encompassed at least one documented CHS generator, primarily telephone substations. These two types of PCSs are primarily sources of volatile and semi-volatile organic chemicals. With increasing development in Baltimore County, it is likely that numbers of these types of PCSs will be increasing.

The land use for transient PWS is predominantly residential and agricultural, and in areas without county or city sewer systems. About two thirds of the systems include at least some residential land within their SWAA, and eighty-five percent include residential and/or agricultural land. As a result, coliform bacteria and nitrate are both likely to be potential contaminants sourced within the SWAAs. Even when septic systems associated with the PWS are not within the SWAA, septic systems associated with other residences or institutions are likely to be encompassed by the SWAA.

Transport / Natural Attenuation

Natural groundwater conditions for the systems being considered are dominated by downward transport of precipitation through alluvium and bedrock (Figures 3 & 4). Some portion of this water is captured by the pumping wells within the SWAAs, and then pumped back to the surface for use.

Volatile (VOC) and semi-volatile (SVOC) organic compounds may migrate as dissolved phases in groundwater, or, if released in large quantities from tanks, as a separate phase that is lighter than, or heavier than water. For the Baltimore County systems, the greatest potential risk appears to be from the VOCs contained in gasoline, diesel fuel, and heating oil. The most soluble compound in these fuels – benzene, toluene, ethylbenzene and xylene (BTEX) and methyl-tert-butyl ether (MTBE), will migrate with groundwater through alluvium and fractured bedrock. The BTEX compounds do, however, tend to degrade in the subsurface in reaction that are mediated by microbes present naturally in the soil. As shown by surveys in Texas and Florida, releases of BTEX tend to produce contaminant plumes less than 250 feet in length (Weidemeier et al., 1999). When large amounts of free product are released, or when special conditions exist (e.g. very permeable shallow aquifers), the plumes may be longer. In contrast MTBE, which is very soluble in groundwater, does not degrade as rapidly as do the BTEX compounds, and thus will form longer contaminant plumes.

Nitrate will travel with groundwater as the predominant dissolved ion of nitrogen. Due to changing redox conditions, it may be altered to nitrite, or removed from the groundwater as nitrogen. Generally speaking, under the unconfined groundwater conditions associated with these PWS, nitrate will be the most stable form of nitrogen and will travel with groundwater.

Coliform bacteria travel with groundwater as suspended particles. Generally, bacteria from a shallow source such as a septic leach field will travel downward through the unsaturated zone, their concentration being attenuated with time and distance from the source. Bacterial transport is limited by filtration in the soil, the bacterial life span, the rate of movement, and other factors (Gerba & Bitton, 1984; Hagedorn, 1984; Rahm, 1996). The distance of transport will be site-specific, but in properly designed and operating septic systems most bacteria are generally filtered out within several to several tens of meters.

It is most likely that coliform contamination of public water systems is due to failure of surface well seals, mixing of water in the supply/distribution system, and/or incomplete system disinfection. It is possible under special circumstances, however, (e.g. in karstic terranes) for coliform from surficial sources to reach the intake of these wells via subsurface transport.

A total of 5 of the transient systems are known to be screened within the Cockeysville Marble, a geologic unit which is locally karstic (Table 2). Four of these systems did report more than 10% of analyses positive for Total Coliform; although none tested positive for fecal coliform. These systems may be more prone to fecal coliform contamination from surficial sources, but the data reviewed here are insufficient to fully support this concern.

Impact of Contaminants on Natural Equilibrium

As part of the Susceptibility Analysis, it is necessary to consider the possibility of contaminants altering subsurface conditions in such a way as to enhance or mitigate the risk to the groundwater sources. For the contaminants evaluated above, the greatest risk posed to the alternation of natural conditions will be modification of the natural redox conditions in the

shallow soil and groundwater. These modifications to subsurface chemistry will primarily affect the contaminants themselves. There is, however, some risk that other redox-sensitive contaminants such as metals may be influenced.

For example, BTEX compounds released into the subsurface will degrade through microbially-mediated reactions that consume oxygen and potentially other electron acceptors. At high concentrations, particularly if there is a significant release of free product to the environment, the natural attenuation of these compounds may substantially alter redox conditions near the release (e.g. Weidemeier, et al., 1999). Similarly, the release of large amounts of reduced nitrogen (ammonia compounds) to the environment can substantially alter redox conditions as all available oxygen in the groundwater is used up in redox reactions. The actual impact on subsurface conditions, will depend upon the balance between local rates of groundwater infiltration, contaminant concentration, and rate of groundwater migration.

Altered redox conditions are most likely to impact conditions within the contaminant plume and lessen beyond. Considering the 200 PWS as a whole, it seems unlikely that any alteration of redox conditions due to a localized release will significantly alter the contaminant transport properties of the subsurface or significantly affect groundwater quality. Local conditions within a single SWAA may differ, but there is insufficient information with which to identify any specific risks.

Integrity of the Wells

As part of the records review for this process, the most recent sanitary survey was reviewed for each system (Table 11). In addition, during site visits, the well head was observed for each source and any deficiencies were noted.

Sanitary surveys noted deficiencies or other conditions for about 10% of the systems. These deficiencies were generally issues associated with maintenance of the well (e.g. cracked well caps) or repeated instances of positive coliform testing. Other issues such as settlement around wells or lack of access for inspection were also noted.

During site visits, some additional issues were noted. Most well heads were in good condition, although a number were located in sumps or depressions that were either inaccessible or present the risk of flooding. A number of wells are located in trafficked areas, but lack protective bollards, presenting the risk of damage due to vehicles or earth moving activities. A few (e.g. Valley Wine Shop, PWSID 1031325) were non-standard construction, or in poorly maintained areas with potential contaminant sources such as above-ground storage tanks.

Section 6

Recommendations for Protecting Water Supply

Review of water-quality data for the Baltimore County transient, non-community systems indicates that the majority of systems have experienced concerns over coliform contamination during at least one sampling event. Similarly, elevated nitrate levels are a concern for more than half of the systems. Under current conditions, nearly all the systems are susceptible to elevated nitrate and coliform bacteria, depending upon local land use and well integrity conditions.

In addition, the PCS inventory indicates that more than half the SWAAs may be susceptible to contamination from fuel oil or gasoline tanks; this number is likely to increase with increasing development of rural Baltimore County. A smaller percentage is also susceptible to VOC contamination from surficial sources such as CERCLIS sites and CHS generators.

As a result, the following recommendations are made for protection of the transient, non-community PWS in Baltimore County.

Recommendations for System Owners and Operators

- Maintain the sanitary integrity of the well, treatment system(s), and all above-ground portions of the water-supply system. The primary route of bacterial contamination is through the surface, and thus special attention should be paid to proper maintenance and disinfection.
- Install a physical barrier to well damage for surface completions that are unprotected by bollards or other devices, particularly those in high-traffic areas.
- Where feasible, wells sited within below-ground vaults should have the casing raised above ground level, and the area around the wellhead grouted and sealed to prevent flooding in accordance with Maryland well construction regulations,
- Where raising the casing is not possible, wells in underground vaults should be tested for coliform and nitrate immediately after rainfall events, as well as at dry times, in order to evaluate the risk of a poor surface seal.
- Periodically test wells that are potentially at risk for contamination by VOCs to ensure that none has occurred.
- Be sure that any additions or changes to septic systems meet or exceed county requirements for distance from sources of groundwater.
- Be aware of changing land use within the SWAA for your system, and consider making changes to groundwater monitoring as appropriate. For example, if a new service station is constructed within the SWAA, consider periodic testing for BTEX and MTBE.
- Ensure that routine monitoring of groundwater for nitrate and coliform bacteria are completed at least as often as required by regulatory agencies; if exceedances are found, then take immediate action to identify specific potential sources, mitigate the source issue, or enhance treatment as necessary.

Recommendations for Regulatory Agencies

- Consider modifications to monitoring requirements for:
 - BTEX and MTBE
 - Other VOCseither for selected systems shown to be at risk, or for all systems.
- Provide recommendations and support to system owners/operators for enhanced protection of surface completions through
 - Protection of well heads from physical damage, and
 - Replacement of surface seals/caps shown to be faulty.
 - Prioritization of attention to systems with known problems.
- Encourage all county residents to reduce nitrogen loading through proper use and maintenance of septic systems, and through appropriate use of fertilizers on agricultural lands.
- Source Water Assessment Areas should be considered during planning of land use, e.g. in revising zoning, and providing permits for construction of facilities likely to be Potential Contaminant Sources (e.g. gas stations, industrial facilities).

Section 7

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FIGURES

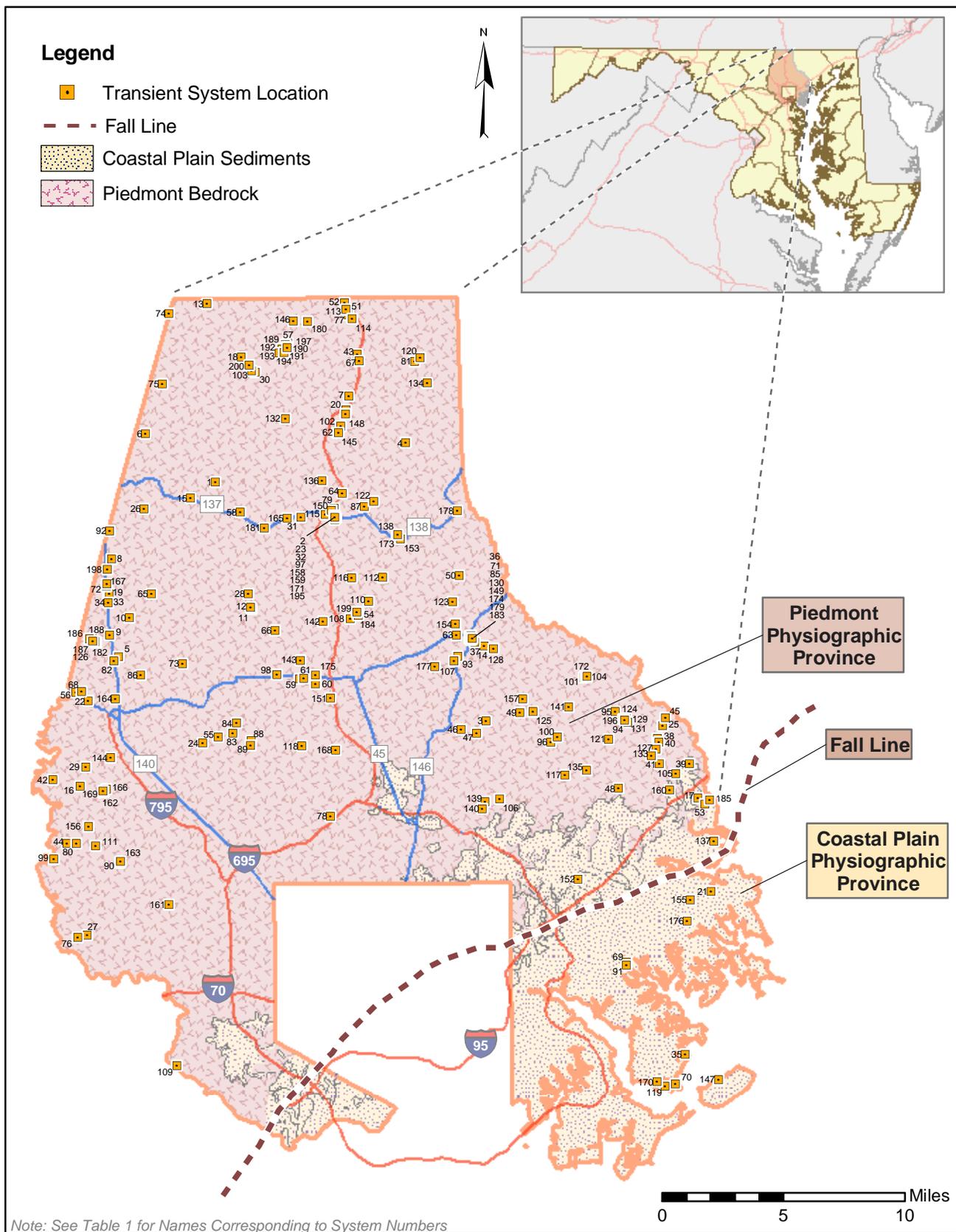


Figure 1 Map of Transient, Non-Community Public Water Systems in Baltimore County

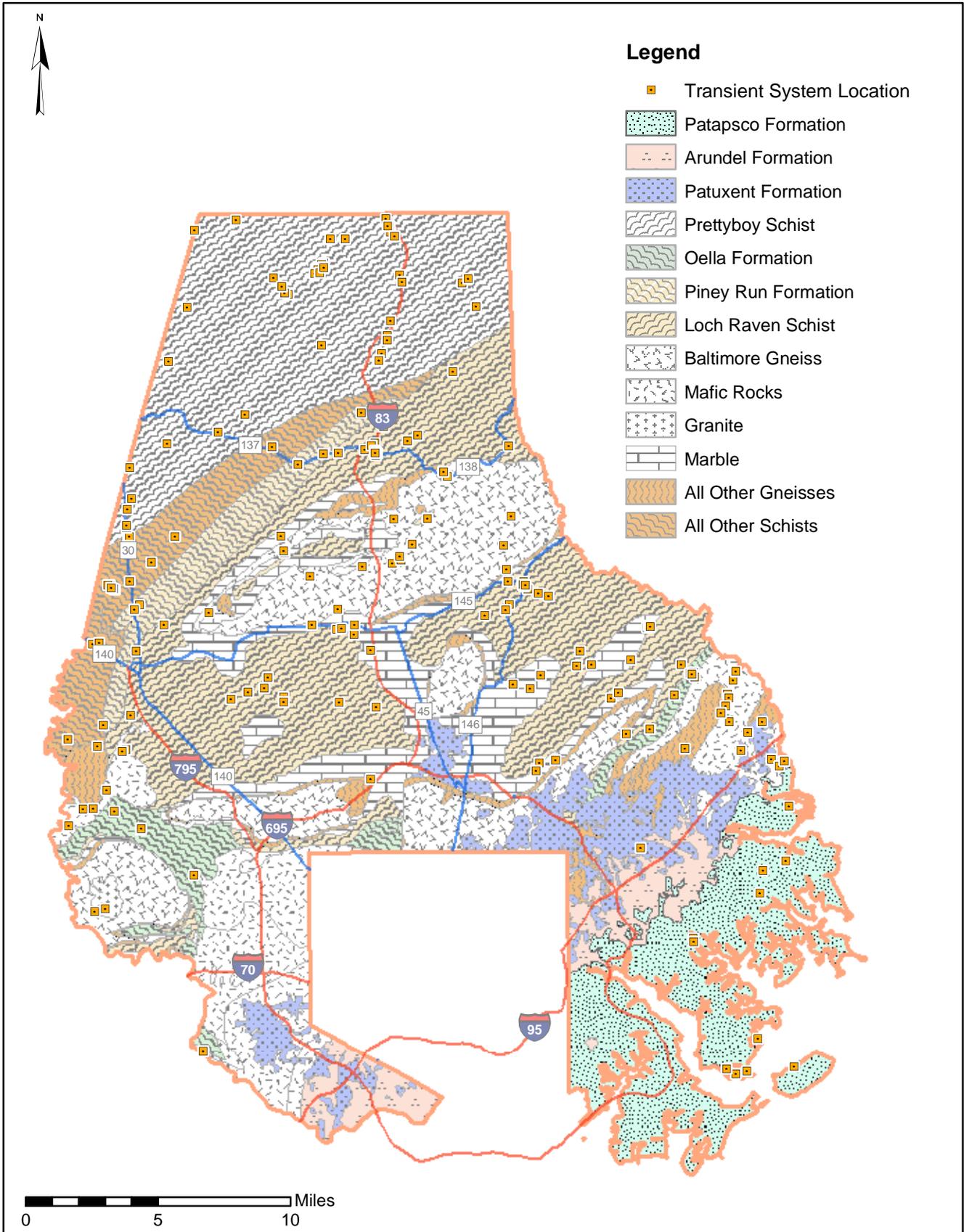


Figure 2 Bedrock Geology Map of Baltimore County

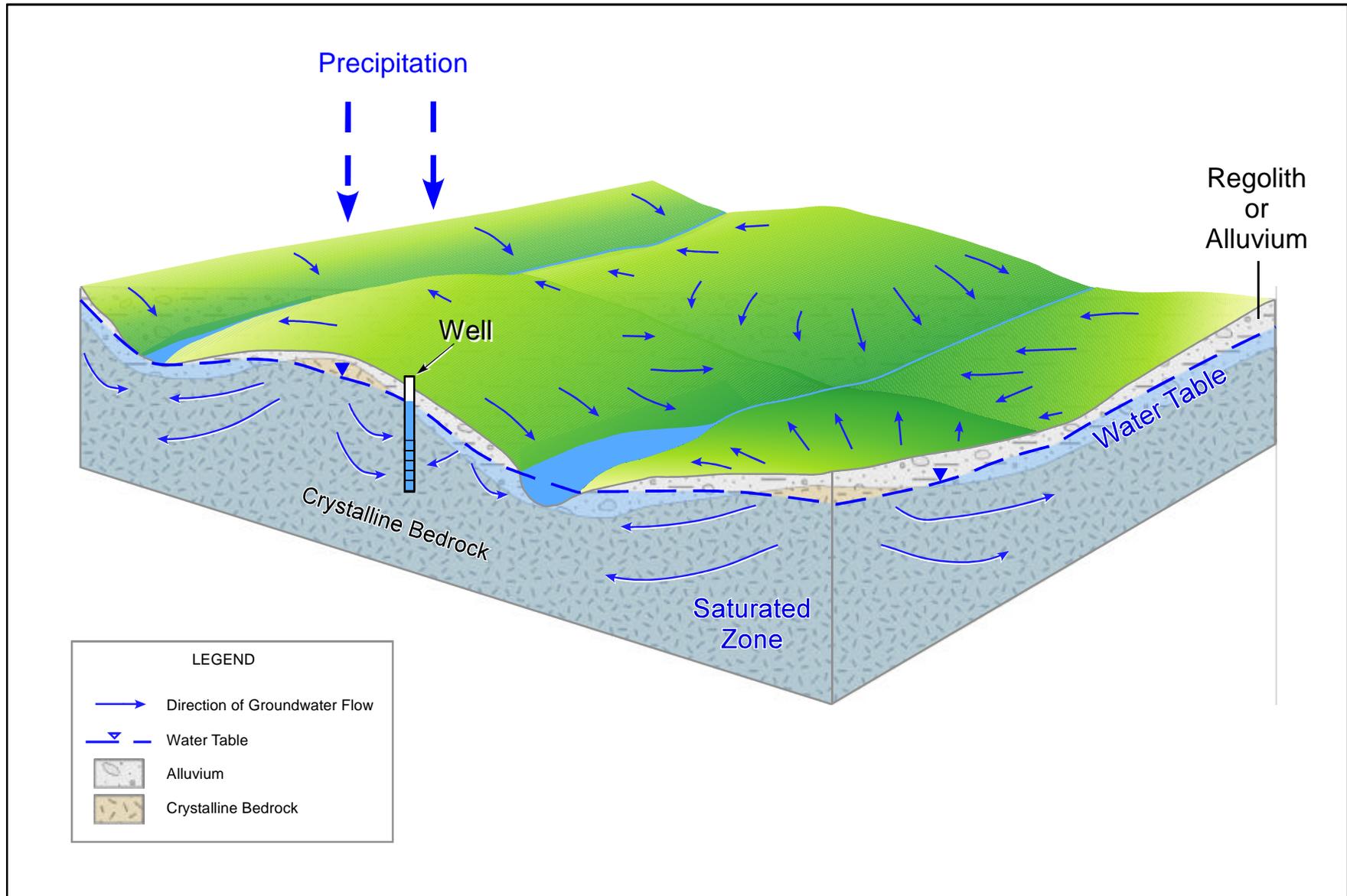


Figure 3 Schematic Hydrogeologic Conditions in the Piedmont of Baltimore County (after Le Grand, 1989)

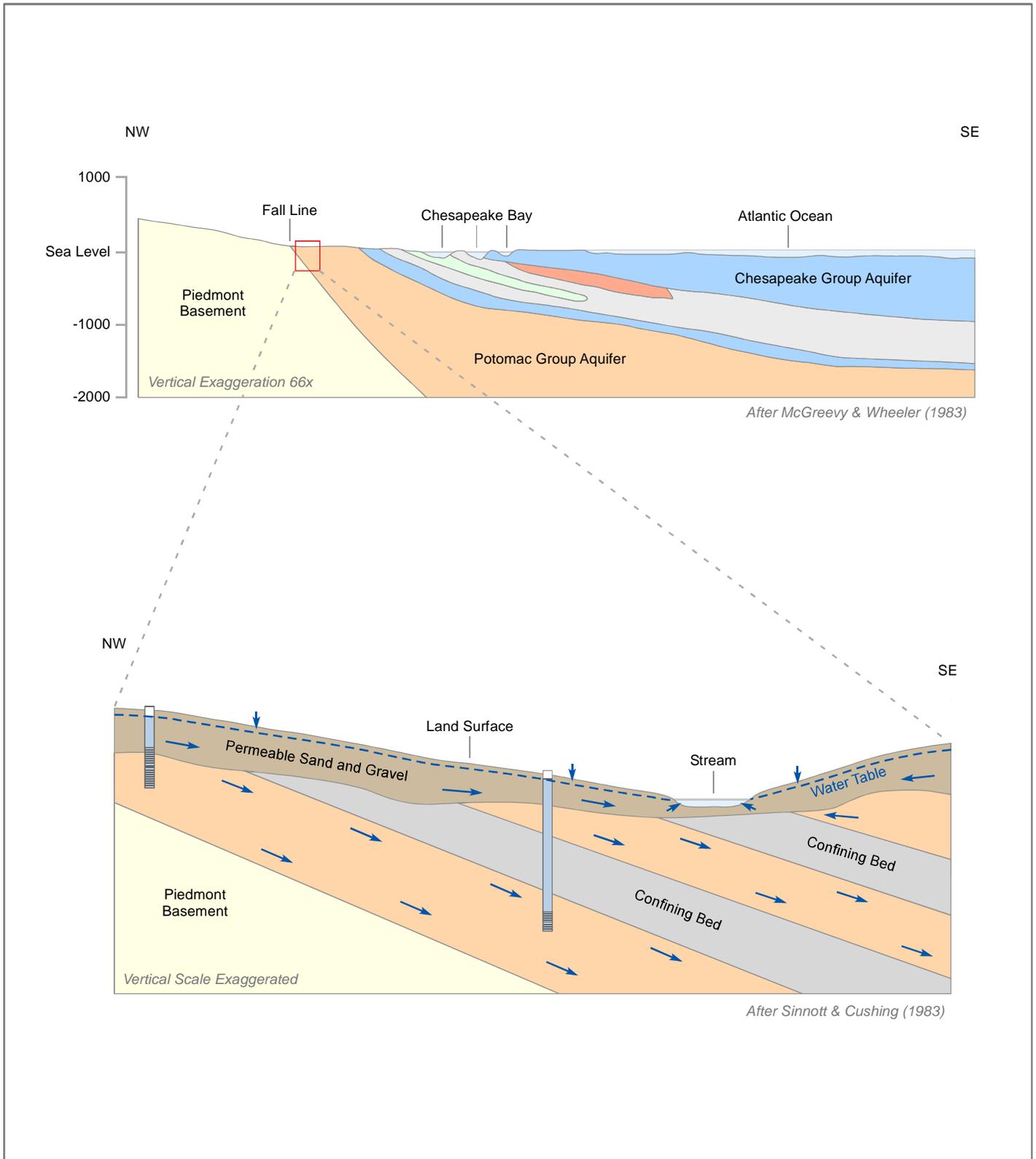


Figure 4 Schematic Hydrogeologic Conditions in the Coastal Plain of Baltimore County

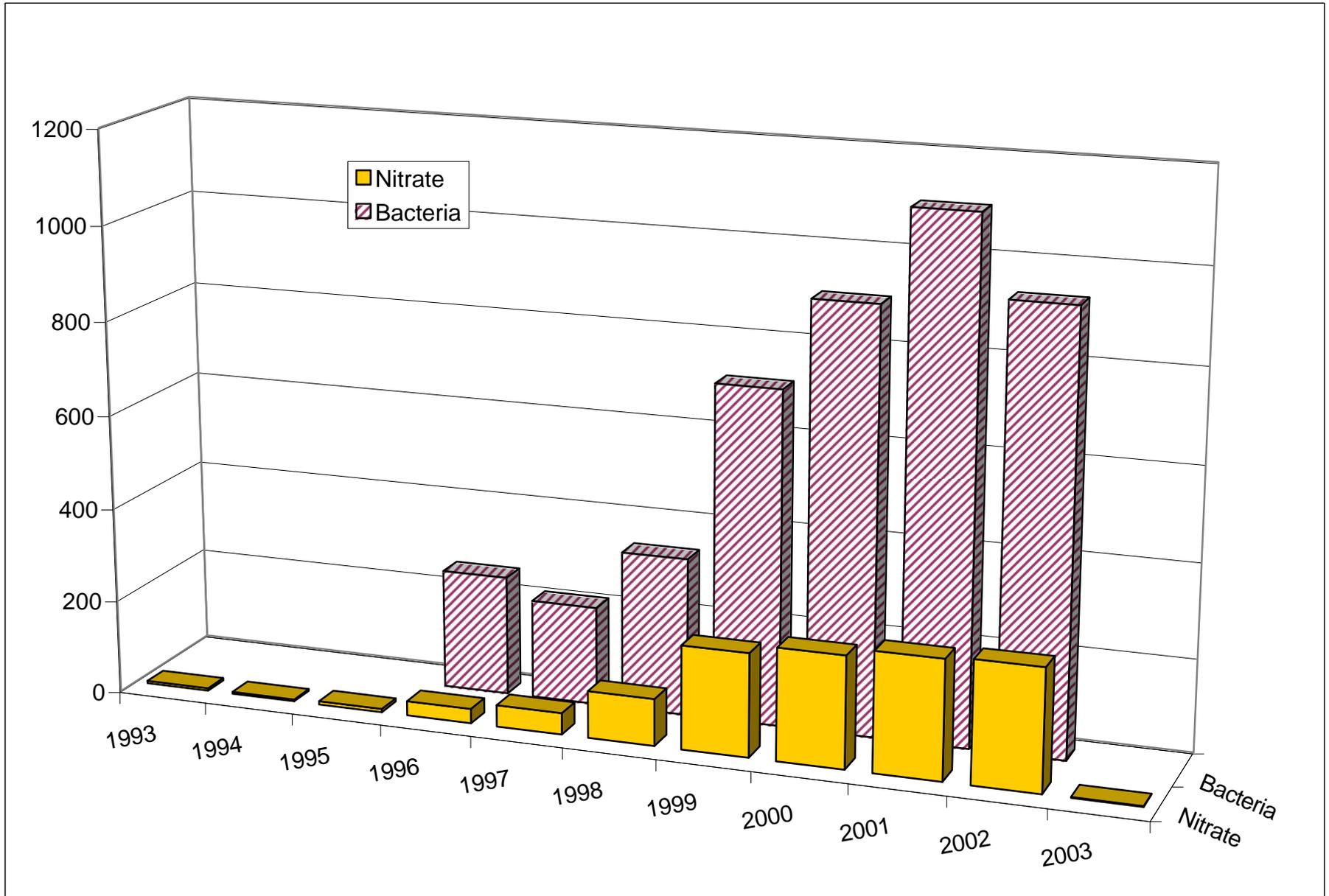


Figure 5 Water-Quality Data – Number of Records by Year

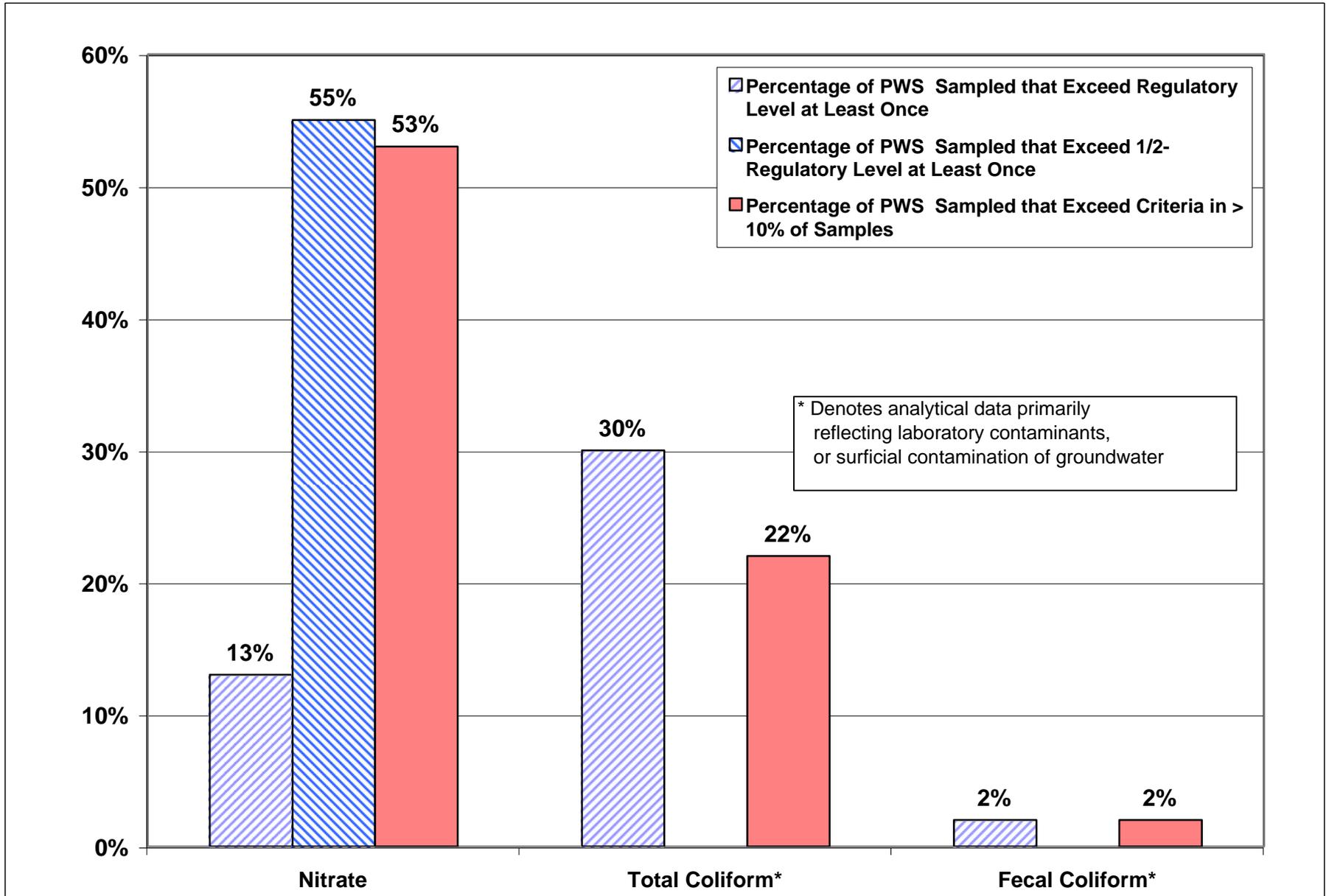


Figure 6 Summary of Comparison Between Water-Quality Data and Relevant Regulatory Limits

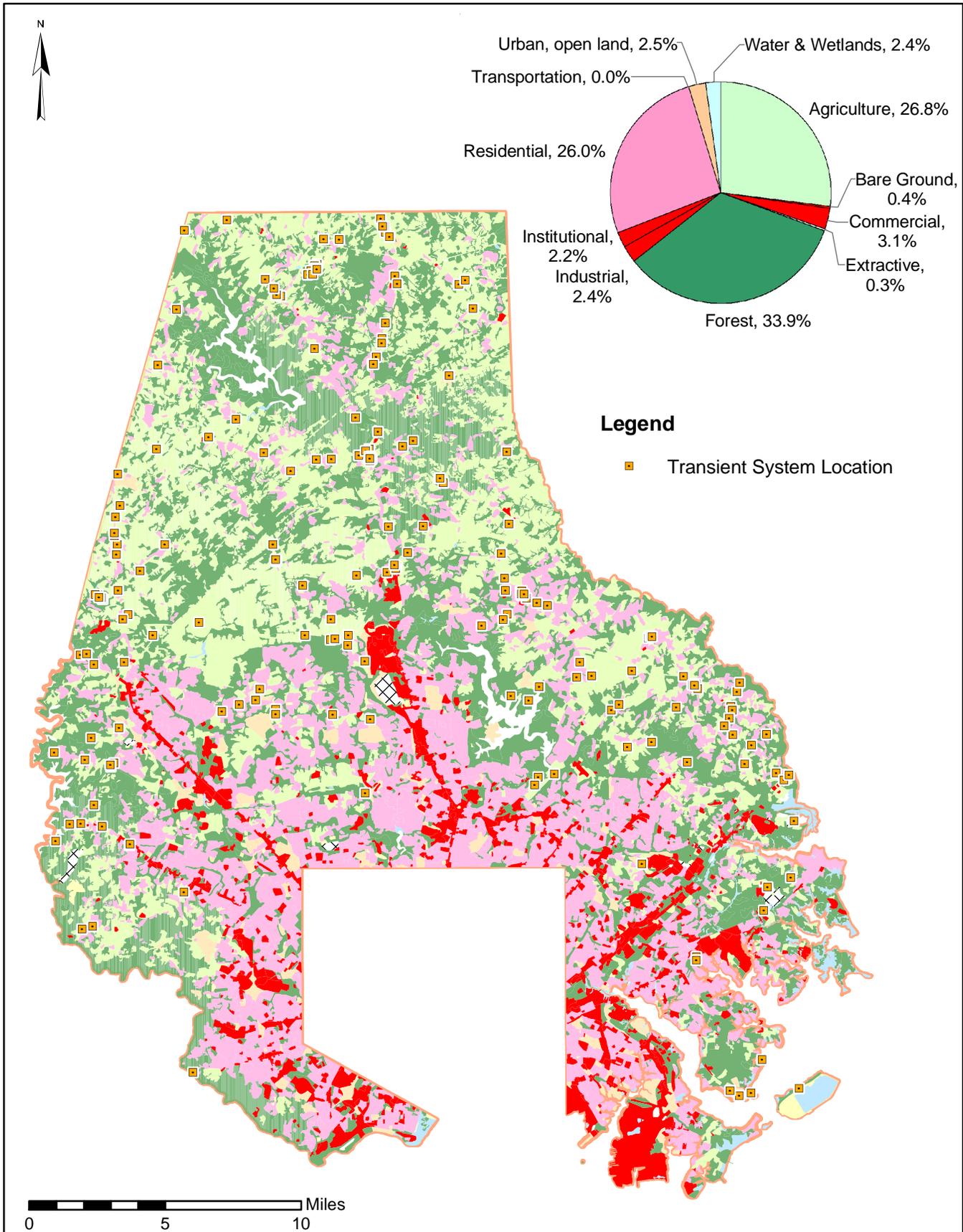


Figure 7 Land Use in Baltimore County

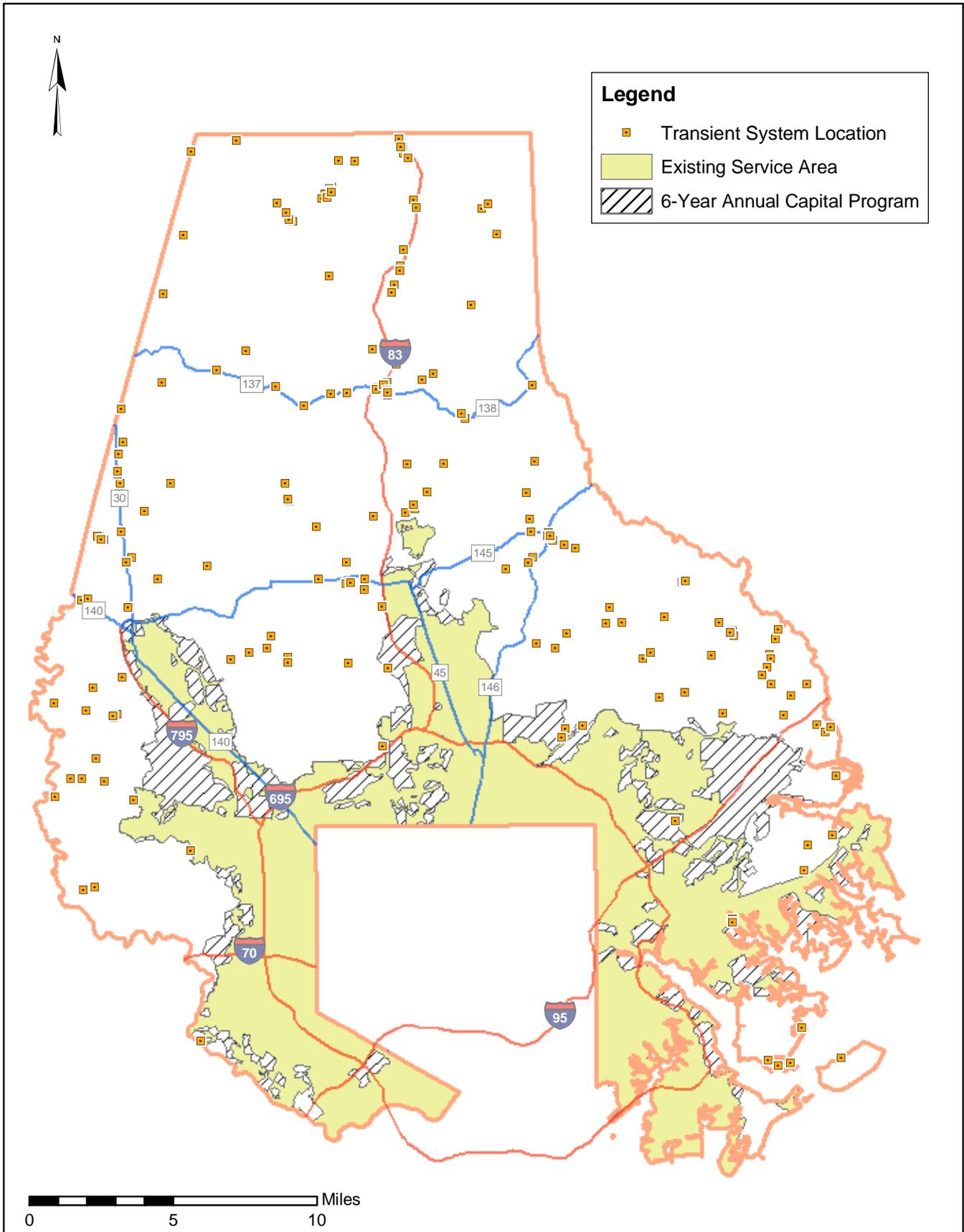


Figure 8 Extents of Existing and Planned (6-Year Capital Program) Sewer Service in Baltimore County

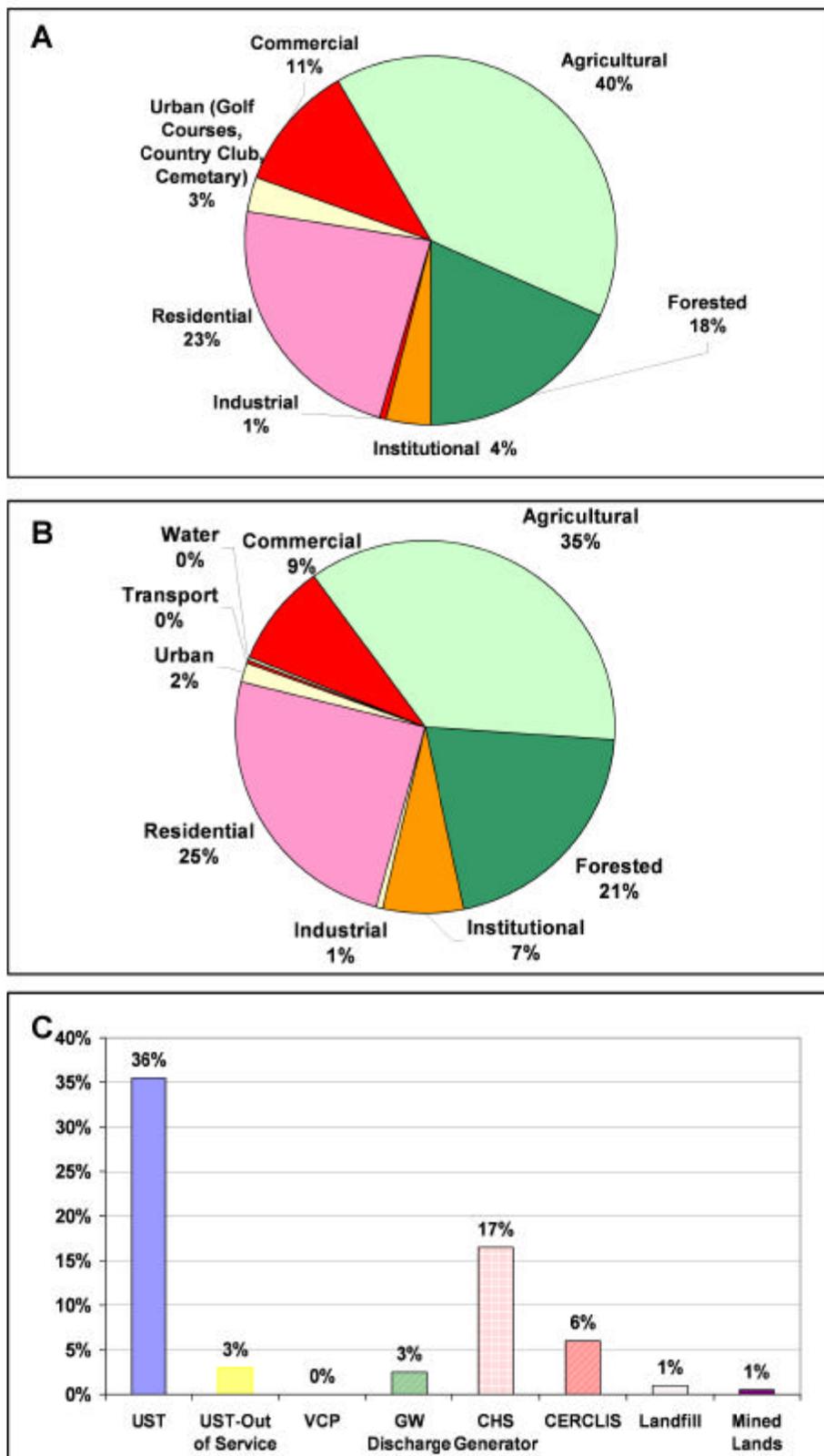


Figure 9 Land Use Within SWAAs of Transient Systems; A) Dominant Land Use within Each of the 200 Systems, B) Estimated Total Land Use within all SWAAs, C) Number of SWAAs that impinge on each of the specified Potential Contaminant Sources Types

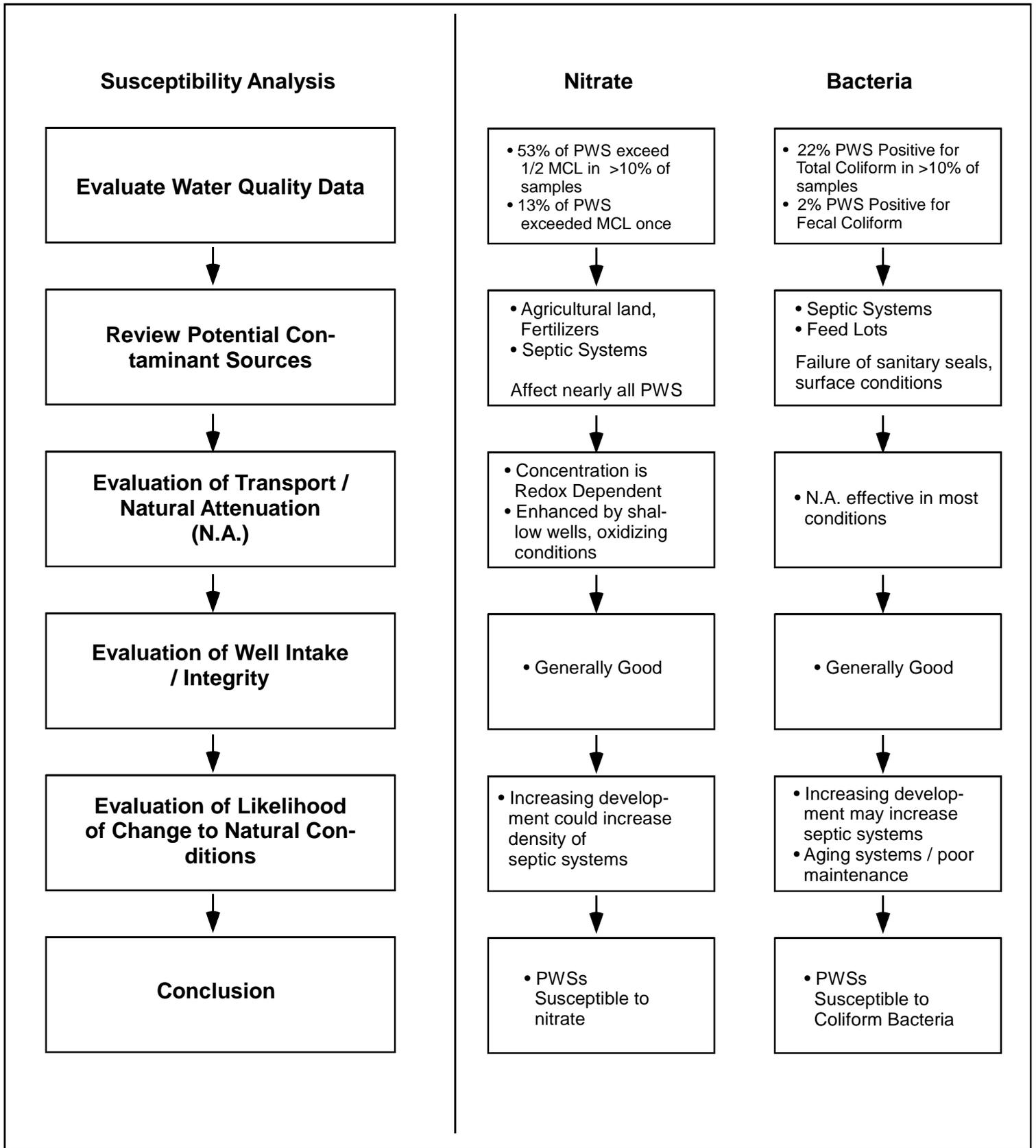


Figure 10 Susceptibility Analysis Flowchart and Summary

TABLES

Table 1 Transient, Non-Community Public Water Systems in Baltimore County

No.	PWSID	PWS NAME	Address	City	No. of Sources	SWAA Land Use (Estimated Fractions)
1	1030014	Forest Baptist Child Development Center	1770 Foreston Road	Upperco	1	Residential (0.4); Agricultural (0.4); Forested (0.2)
2	1030019	Hereford Plaza (Michaels Pizza/ Highs)	16956 York Road	Monkton	1	Commercial (0.5); Agricultural (0.2); Residential (0.2); (0.1)
3	1030064	Peerces Plantation	12460 Dulaney Valley Road	Phoneix	1	Agricultural (0.6); Forested (0.4)
4	1030074	Baltimore County Greystone Golf Course	2115 Whitehall Road	Whitehall	1	Urban (golf Course) (0.5); Residential (0.3); Forested (0.1); (0.1)
5	1030079	Suburban Propane	13944 Old Hanover Road	Reisterstown	1	Agricultural (0.7); Residential (0.2); Industrial (0.1)
6	1031001	Albanstown Inn	18720 Brick Store Road	Hampstead	1	Agricultural (0.6); Residential (0.3); Forested (0.1)
7	1031002	American Legion #256 Parkton	19520 York Road	Parkton	2	Residential (0.6); Forested (0.2); Transportation (0.1); (0.1)
8	1031003	Arcadia Volunteer Fire Co	5415 Arcadia Avenue	Upperco	1	Residential (0.6); Agricultural (0.2); Institutional (0.1); (0.1)
9	1031007	Baltimore County Baptist Church	14450 Hanover Pike	Reisterstown	1	Agricultural (0.9); Institutional (0.1)
10	1031012	Boring Vol Fire Dept	14711 Old Hanover Road	Boring	1	Agricultural (0.4); Residential (0.4); Institutional (0.1); (0.1)
11	1031016	Butler Store & Liquors	14921 Falls Road	Butler	1	Agricultural (0.6); Commerical (0.2); Residential (0.1); (0.1)
12	1031017	Butler Volunteer Fire Co	15019 Falls Road	Butler	1	Agricultural (0.5); Forested (0.25); Commerical (0.25)
13	1031022	Cherys Inn	21603 Middletown Road	Freeland	1	Agricultural (0.8); Commerical (0.1); Residential (0.1)
14	1031024	Chestnut Grove Presbyterian Church	3701 Sweet Air Road	Phoenix	1	Residential (0.8); Institutional (0.1); Forested (0.1)
15	1031029	Countryside Carryout	17318 Falls Road	Upperco	1	Agricultural (0.7); Institutional (0.25); Commerical (0.05)
16	1031031	Deer Park United Methodist Church	6107 Deer Park Road	Reisterstown	1	Residential (0.9); Forested (0.1)
17	1031032	Dew Drop Inn & Beef Pit	12301 Philadelphia Road	Kingsville	1	Agricultural (0.6); Forested (0.2); Residential (0.15); (0.05)
18	1031039	Eklo Inn	20418 Middletown Road	Freeland	1	Agricultural (0.95); Forested (0.05)
19	1031040	Elmos Luncheonette	15300 Hanover Pike	Upperco	1	Agricultural (0.5); Residential (0.4); Commerical (0.1)
20	1031043	Parkton Exxon	19308 York Road	Parkton	1	Forested (0.5); Agricultural (0.4); Transportation (0.1)
21	1031044	Farmer Johns	6836 Ebenezer Road	Baltimore	1	Agricultural (0.8); Forested (0.2)
22	1031046	North Star	808 Westminster Road	Reisterstown	2	Agricultural (0.5); Residential (0.4); Commerical (0.05); (0.05)
23	1031047	First Baptist Church of Hereford	9 Mt Carmel Road	Parkton	1	Commercial (0.4); Residential (0.3); Agricultural (0.3)
24	1031055	Congregation Rosh Pina	3408 Walnut Avenue	Owings Mills	1	Residential (0.95); Forested (0.05)
25	1031056	Kingsville Tavern	12426 Belair Road	Kingsville	1	Residential (0.4); Agricultural (0.3); Forested (0.3)
26	1031057	Grace United Methodist Church	4618 Black Rock Road	Upperco	1	Agricultural (0.8); Residential (0.1); Forested (0.1)
27	1031059	Granite Presbyterian Church	10637 Old Court Road	Woodstock	1	Residential (0.6); Agricultural (0.4)
28	1031061	Gray & Sons Inc	2401 Stringtown Road	Butler	1	Forested (0.8); Urban (bare ground) (0.1); Agricultural (0.1)
29	1031062	Green Valley Swim Club	1220 Saffle Road	Reisterstown	2	Forested (0.8); Agricultural (0.2)
30	1031064	Gunpowder Baptist Church	20074 Middletown Road	Freeland	2	Agricultural (0.85); Forested (0.1); Institutional (0.05)
31	1031066	Hereford Assembly of God	1211 Mt Carmel Road	Parkton	1	Residential (0.6); Agricultural (0.3); Forested (0.1)
32	1031067	Hereford United Methodist Church	16931 York Road	Parkton	1	Commercial (0.45); Residential (0.4); Agricultural (0.1); (0.05)
33	1031068	Highs	15301 Hanover Pike	Upperco	1	Agricultural (0.5); Residential (0.4); Commerical (0.1)
34	1031070	Colonial Inn	15102 Hanover Pike	Upperco	1	Agricultural (0.6); Residential (0.4)
35	1031072	Island View Waterfront Café (Formerly Island View Inn)	2542 Island View Road	Baltimore	1	N/A
36	1031074	Jacksonville Exxon	14258 Jarrettsville Pike	Phoenix	1	Commercial (0.7); Residential (0.3)
37	1031078	Jacksonville Volunteer Fire Co	3500 Sweet Air Road	Phoenix	2	Residential (0.6); Commerical (0.2); Institutional (0.1); (0.1)
38	1031080	Kings Court Motel	12200 Belair Road	Kingsville	1	Commercial (0.35); Forested (0.35); Institutional (0.3)
39	1031082	Kingsville Athletic Field House	11653 Franklinville Road	Upper Falls	1	Forested (0.8); Institutional (0.2)
40	1031083	Kingsville Food Rite	12037 Belair Road	Kingsville	1	Residential (0.7); Commerical (0.2); Forested (0.05); (0.05)
41	1031085	Kingsville Volunteer Fire Co	11601 Bellvue Avenue	Kingsville	1	Residential (0.7); Agricultural (0.3)
42	1031086	Lakeview Swim Club	6520 Deer Park Road	Reisterstown	1	Residential (1)
43	1031087	Lees Tavern	20429 York Road	Parkton	1	Residential (0.8); Transportation (0.1); Forested (0.1)

Table 1 Transient, Non-Community Public Water Systems in Baltimore County

No.	PWSID	PWS NAME	Address	City	No. of Sources	SWAA Land Use (Estimated Fractions)
44	1031089	Liberty Reformed Presbyterian Church	11301 Liberty Road	Owings Mills	1	Agricultural (0.65); Institutional (0.2); Forested (0.15)
45	1031090	Little Falls Tavern	12627 Belair Road	Kingsville	1	Forested (0.75); Residential (0.2); Commercial (0.05)
46	1031093	Loch Raven Fishing Center	12101 Dulaney Valley Road	Phoenix	1	Forested (0.55); Water (0.3); Agricultural (0.15)
47	1031094	Loch Raven Skeet & Trap Club	12301 Dulaney Valley Road	Phoenix	1	Forested (0.8); Institutional (0.2)
48	1031095	Timber Creek Tavern	10092 Belair Road	Kingsville	1	Forested (0.85); Residential (0.1); Transportation (0.05)
49	1031098	Long Green Volunteer Fire Co	4506 Long Green Road	Long Green	3	Residential (0.9); Agricultural (0.03); Forested (0.02); (0.05)
50	1031103	Manor Tavern Inc	15819 Old York Road	Monkton	2	Agricultural (0.95); Forested (0.05)
51	1031106	Maryland Line Inn	21366 York Road	Parkton	1	Agricultural (0.8); Residential (0.1); Commercial (0.1)
52	1031108	Maryland Line Vol Fire Co	Po Box 205, 21631 York Road	Maryland Line	1	Agricultural (0.4); Residential (0.3); Commercial (0.2); (0.1)
53	1031112	Midway Inn / Midway Liquors	12320 Pulaski Highway	Joppa	1	Commercial (0.4); Agricultural (0.4); Forested (0.1); Transportation
54	1031114	Milton Inn	14833 York Road	Sparks	1	Agricultural (0.6); Residential (0.3); Commercial (0.1)
55	1031115	Lee's Valley Gourmet (Formerly Mr Charles Market Place)	12147 Park Heights Avenue	Owings Mills	1	Residential (0.5); Forested (0.3); Agricultural (0.2)
56	1031116	Reisterstown Moose Lodge #1577	1101 Westminster Pike	Reisterstown	1	Forested (0.95); Institutional (0.05)
57	1031117	Morris Meadows Recreation Farm Inc	1523 Freeland Road	Freeland	2	Agricultural (0.7); Forested (0.2); Residential (0.1)
58	1031118	Mount Carmel United Methodist Church	2533 Mount Carmel Road	Parkton	1	Agricultural (0.85); Institutional (0.1); Residential (0.05)
59	1031120	Oregon Ridge Park Nature Center	13401 Beaver Dam Road	Cockeysville	1	Forested (0.85); Institutional (0.15)
60	1031121	Oregon Ridge Park Lodge	13401 Beaver Dam Road	Cockeysville	4	Agricultural (0.85); Forested (0.1); Residential (0.05)
61	1031123	Oregon Ridge Park Beach	18555 Beaver Dam Road	Cockeysville	1	Forested (0.5); Agricultural (0.4); Institutional (0.1)
62	1031126	Park Inn	18819 Frederick Road	Parkton	1	Residential (0.6); Forested (0.4)
63	1031129	Papermill Recreation Center	3101 Paper Mill Road	Phoenix	1	Residential (0.75); Institutional (0.15); Forested (0.1)
64	1031133	Pioneer House	17417 York Road	Parkton	1	Forested (0.7); Institutional (0.2); Transportation (0.1)
65	1031134	Pleasant Grove United Methodist Church	15300 Dover Road	Reisterstown	2	Agricultural (0.6); Residential (0.2); Forested (0.2)
66	1031135	Pleasant Hill Chapel	1800 Worthington Hgts Pkwy	Cockeysville	1	Residential (0.5); Forested (0.4); Agricultural (0.05); Institutional (0.05)
67	1031140	Redeemer Lutheran Church	20440 Downe Road	Parkton	1	Institutional (0.4); Residential (0.3); Forested (0.2); Transportation (0.1)
68	1031141	American Legion #116 Reisterstown	1090 Westminster Pike	Reisterstown	1	Agricultural (0.55); Forested (0.4); Institutional (0.05)
69	1031144	Rileys Marina	1901 Old Eastern Avenue	Baltimore	1	Commercial (0.5); Forested (0.4); Residential (0.1)
70	1031145	Rocky Point Beach	2198 Rocky Point Road	Baltimore	2	N/A
71	1031146	Roma Carry Out	3419 Sweet Air Road	Phoenix	2	Commercial (0.6); Residential (0.35); Institutional (0.05)
72	1031153	Sportsmans Hall Roller Rink	15500 Hanover Pike	Upperco	1	Agricultural (0.85); Commercial (0.1); Forested (0.05)
73	1031157	St Johns Episcopal Church	3738 Butler Road	Glyndon	1	Agricultural (0.95); Institutional (0.05)
74	1031158	St Paul United Brethren Church in Christ	5010 St Pauls Road	Lineboro	1	Agricultural (1)
75	1031159	St Peters Lutheran	4300 Church Road	Hampstead	1	Forested (0.5); Agricultural (0.45); Institutional (0.05)
76	1031160	St Alphonsus Rodriguez Church	10800 Old Court Road	Woodstock	1	Forested (0.5); Agricultural (0.4); Institutional (0.1)
77	1031163	Thompsons Food Market	21429 York Road	Maryland Line	1	Agricultural (0.55); Residential (0.3); Commercial (0.1); Institutional
78	1031168	Valley Inn	10501 Falls Road	Lutherville	1	Forested (0.85); Commercial (0.1); Transportation (0.05)
79	1031170	Wagon Wheel Restaurant	17114 York Road	Monkton	1	Agricultural (0.75); Commercial (0.15); Forested (0.1)
80	1031171	Wards Chapel United Methodist Church / Preschool	11023 Liberty Road	Randallstown	1	Agricultural (0.7); Residential (0.15); Commercial (0.1); Forested (0.05)
81	1031173	West Liberty Carryout	20233 Old York Road	White Hall	1	Agricultural (0.8); Residential (0.1); Forested (0.05); Commercial (0.05)
82	1031176	Woodensburg Country Store	13819 Hanover Pike	Reisterstown	1	Agricultural (0.55); Residential (0.4); Forested (0.05)
83	1031178	Worthington Valley Country Club	12401 Greenspring Avenue	Owings Mills	1	Residential (0.5); Urban (Country Club) (0.5)
84	1031179	Worthington Valley Swim Club	2515 Baublitz Road	Reisterstown	1	Residential (0.5); Agricultural (0.4); Institutional (0.1)
85	1031184	Four Corners Amoco	14243 Jarrettsville Pike	Phoenix	1	Commercial (0.8); Residential (0.2)

Table 1 Transient, Non-Community Public Water Systems in Baltimore County

No.	PWSID	PWS NAME	Address	City	No. of Sources	SWAA Land Use (Estimated Fractions)
86	1031185	Camp Holiday	4700 Kemp Road	Reisterstown	2	Agricultural (0.65); Institutional (0.2); Forested (0.15)
87	1031186	Camp Puh'Tok / Nature Camps	17433 Big Falls Road	Monkton	3	Forested (0.8); Residential (0.15); Institutional (0.05)
88	1031188	Chestnut Ridge Farm Market	12124 Greenspring Avenue	Owings Mills	1	Residential (0.25); Forested (0.25); Industrial (0.25); Agricultural (0.25)
89	1031189	Chestnut Ridge VFD	12020 Greenspring Avenue	Owings Mills	1	Agricultural (0.75); Institutional (0.2); Residential (0.05)
90	1031191	Club 3960 Inc	10019 Liberty Road	Randallstown	1	Residential (0.8); Commercial (0.15); Agricultural (0.05)
91	1031196	Cutters Marina	1900 Old Eastern Avenue	Baltimore	1	Commercial (0.5); Forested (0.5)
92	1031197	Piney Branch Country Club	5301 Trenton Mill Road	Hampstead	1	Urban (country club) (0.5); Agricultural (0.5)
93	1031198	Fairview United Methodist Church	13916 Jarrettsville Pike	Phoenix	1	Residential (0.75); Agricultural (0.2); Institutional (0.05)
94	1031199	Fork Deli	12609 Fork Road	Fork	1	Residential (0.5); Agricultural (0.35); Commercial (0.15)
95	1031200	Fork United Methodist Church	12800 Fork Road	Fork	1	Residential (0.55); Agricultural (0.45)
96	1031202	Long Green Valley St/ Maple Hill Farm Mk	5205 Glen Arm Road	Glen Arm	1	Residential (0.5); Institutional (0.3); Commercial (0.1); Agricultural (0.1)
97	1031203	Hereford Volunteer Fire Co	510 Monkton Road	Monkton	1	Commercial (0.45); Residential (0.4); Agricultural (0.1); Institutional
98	1031204	John Browns Store	13501 Falls Road	Cockeysville	1	Agricultural (0.9); Forested (0.1)
99	1031207	Maryland State Police Firing Range	Liberty Dam Road	Woodstock	1	Forested (0.85); Water (0.1); Institutional (0.05)
100	1031210	Independent Order of Oddfellows #22	12210 Long Green Pike	Glen Arm	1	Agricultural (0.5); Industrial (0.3); Commercial (0.1); Forested (0.1)
101	1031212	Palmisanos of Baldwin	13500 Long Green Pike	Baldwin	1	Agricultural (0.85); Commercial (0.1); Residential (0.05)
102	1031213	Parke Memorial United Methodist Church	18910 York Road	Parkton	1	Residential (0.95); Agricultural (0.05)
103	1031214	Prettyboy Market	20200 Middletown Road	Freeland	1	Agricultural (0.85); Residential (0.05); Commercial (0.05); Forested
104	1031215	Valley Wine Shop Inc	13522 Long Green Pike	Baldwin	1	Agricultural (0.8); Residential (0.1); Commercial (0.1)
105	1031218	Salem United Methodist Church	7901 Bradshaw Road	Upper Falls	1	Residential (0.5); Agricultural (0.2); Forested (0.2); Commercial (0.1)
106	1031219	Sanders Corner	2260 Cromwell Bridge Road	Parkville	1	Forested (0.5); Agricultural (0.4); Residential (0.1)
107	1031220	Sheffield Recordings Limited Inc	13816 Sunnybrook Road	Phoenix	1	Residential (0.5); Agricultural (0.4); Commercial (0.1)
108	1031221	Stevenson AME Church	811 E Quaker Bottom Road	Sparks	1	Forested (0.75); Agricultural (0.1); Residential (0.1); Commercial
109	1031224	Catonsville Elks Lodge #2323	2832 Nine Mile Circle	Catonsville	1	Forested (0.85); Institutional (0.05); Residential (0.05); Water (0.05)
110	1031226	Gunpowder Falls St Pk Sparks Nature Ctr	1207 Sparks Road	Kingsville	1	Forested (0.85); Residential (0.05); Institutional (0.05); Water (0.05)
111	1031227	Original Hawaiian Island Snoball	10636 Liberty Road	Randallstown	1	Residential (0.4); Agricultural (0.4); Commercial (0.15); Commercial
112	1031228	Immanuel Episcopal Church	1509 Glencoe Road	Sparks	1	Forested (0.5); Residential (0.2); Institutional (0.2); Agricultural (0.1)
113	1031230	Maryland Line United Methodist Church	21500 York Road	Maryland Line	1	Agricultural (0.7); Residential (0.25); Commercial (0.05)
114	1031231	Maryland Line Service Center	21307 York Road	Parkton	1	Agricultural (0.8); Residential (0.15); Commercial (0.05)
115	1031232	Meadowcroft Exxon	300 Mt Carmel Road	Parkton	1	Commercial (0.5); Agricultural (0.3); Forested (0.1); Institutional/Transportation (0.1)
116	1031234	Msgr O'Dwyer Retreat House	15523 York Road	Sparks	5	Forested (0.6); Residential (0.2); Agricultural (0.15); Institutional (0.05)
117	1031235	Pats Greenwood Deli	11400 Harford Road	Glen Arm	1	Agricultural (0.95); Residential (0.05)
118	1031236	Ridge Country Store	11950 Falls Road	Baltimore	1	Residential (0.7); Agricultural (0.2); Forested (0.1)
119	1031237	Rocky Point Golf Course	1935 Back River Neck Road	Essex	1	Urban (golf Course) (1)
120	1031241	West Liberty United Methodist Church	20400 West Liberty Road	White Hall	1	Agricultural (0.6); Forested (0.2); Residential (0.1); Institutional (0.1)
121	1031245	Beachmont Christian Camp	6433 Mt Vista Road	Kingsville	1	Agricultural (0.85); Forested (0.1); Institutional (0.05)
122	1031248	Gunpowder Youth Camp Kalor	1250 Bluemont Road	Hereford	1	Forested (0.98); Institutional (0.02)
123	1031249	Clynmalira Methodist Church	Old York & Stockton Rd	Phoenix	1	Agricultural (0.9); Institutional (0.05); Residential (0.05)
124	1031250	Fork Plaza / Highs / Johnny Ryans	12600 Harford Road	Hyde	1	Residential (0.6); Agricultural (0.2); Commercial (0.1); Institutional (0.1)
125	1031252	Long Green Church of Brethren	4800 Long Green Pike	Glen Arm	1	Agricultural (0.7); Residential (0.2); Forested (0.05); Institutional (0.05)
126	1031253	Camp Milldale Main Office	5425 Mt Gilead Road	Reisterstown	1	Institutional (0.95); Forested (0.05)
127	1031255	St Johns Episcopal Church	11901 Belair Road	Kingsville	1	Residential (0.4); Forested (0.3); Agricultural (0.25); Institutional (0.05)
128	1031256	St Johns Lutheran Church	3911 Sweet Air Road	Phoenix	2	Residential (0.8); Agricultural (0.15); Institutional (0.05)

Table 1 Transient, Non-Community Public Water Systems in Baltimore County

No.	PWSID	PWS NAME	Address	City	No. of Sources	SWAA Land Use (Estimated Fractions)
129	1031259	Paul E Field Jr DDS Pa	12619 Harford Road	Fork	1	Forested (0.45); Agricultural (0.3); Commerical (0.15); Residential (0.1)
130	1031260	Charcoal Grill	14227 Jarrettsville Pike	Phoenix	1	Commercial (0.8); Residential (0.15); Institutional (0.05)
131	1031263	Fork Christian Church	6801 Sunshine Avenue	Kingsville	1	Agricultural (0.45); Forested (0.25); Residential (0.2); Commerical
132	1031264	Genesee Valley Learning Center	1700 Rayville Road	Parkton	3	Agricultural (0.6); Forested (0.2); Residential (0.15); Commerical/Institutional (0.05)
133	1031265	Lassahn Funeral Home	11750 Belair Road	Kingsville	1	Agricultural (0.5); Residential (0.3); Commerical (0.2)
134	1031266	Dons Place	19861 Old York Road	Whitehall	1	Agricultural (0.5); Residential (0.4); Commerical (0.05); Forested (0.05)
135	1031273	Gunpowder Falls St Pk Camp Cone	11759 Camp Cone Rd	Glen Arm	1	Forested (0.7); Residential (0.15); Agricultural (0.1); Institutional (0.05)
136	1031274	Gunpowder Falls St Pk Camp Wood	17724 Bunker Hill Road	Kingsville	1	Forested (0.9); Institutional (0.1)
137	1031275	Gunpowder Falls St Pk Days Cove	End of Days Cove Rd.	White Marsh	1	Urban land (open) (1)
138	1031276	Gunpowder Falls St Pk Monkton Train St	1820 Monkton Road	Kingsville	1	Forested (0.4); Residential (0.3); Agricultural (0.2); Institutional (0.1)
139	1031278	Cromwell Valley Merrick House	2175 Cromwell Bridge Road	Baltimore	1	Forested (0.55); Agricultural (0.4); Institutional (0.05)
140	1031279	Cromwell Valley Sherwood House	2002 Cromwell Bridge Road	Baltimore	2	Agricultural (0.9); Forested (0.1)
141	1031280	Boordy Vineyards	12820 Long Green Pike	Hydes	1	Agricultural (1)
142	1031281	Bosley United Methodist Church	14804 Thornton Mill Road	Sparks	1	Agricultural (0.9); Forested (0.1)
143	1031283	Catholic Community of St Francis Xavier	13717 Cuba Road	Cockeysville	2	Agricultural (0.75); Residential (0.2); Forested (0.05)
144	1031284	Covenant of Grace Presbyterian Church	820 Nicodemus Road	Reisterstown	1	Residential (0.3); Urban Land (cemetary) (0.3); Agricultural (0.2); Institutional (0.2)
145	1031285	Creekside Clipper	18821 Frederick Road	Parkton	1	Residential (0.65); Forested (0.3); Commerical (0.05)
146	1031286	Freeland Kingdom Hall	21135 Ridge Road	Freeland	1	Agricultural (0.7); Residential (0.15); Forested (0.15)
147	1031288	Gunpowder Falls St Pk Hart-Miller Island	Hart-Miller Island, Po Box 480	Kingsville	1	N/A
148	1031290	Hasslingers/ St James Church	19200 York Road	Parkton	1	Agricultural (0.6); Forested (0.3); Commerical (0.05); Institutional (0.05)
149	1031291	Hayes Construction Co Inc	14307 Jarrettsville Pike	Phoenix	2	Commercial (0.5); Residential (0.45); Forested (0.05)
150	1031292	Hereford Golf Center	17110 York Road	Parkton	1	Agricultural (0.8); Commerical (0.1); Residential (0.05); Transportation/Forested
151	1031293	Hunt Valley Presbyterian Church	13015 Beaver Dam Road	Hunt Valley	1	Residential (0.5); Agricultural (0.3); Commerical (0.15); Industrial
152	1031294	Immanuel Baptist Church	5050 Bucks School House Road	Baltimore	1	Agricultural (0.95); Institutional (0.05)
153	1031295	Isaiah Baptist Church	1931 Monkton Road	Monkton	1	Forested (0.5); Residential (0.4); Institutional (0.1)
154	1031296	Jacksonville Church of God	14525 Old York Road	Phoenix	1	Residential (0.8); Agricultural (0.15); Institutional (0.05)
155	1031298	Jehovahs Witness Kingdom Hall	505 Earls Road	Baltimore	1	N/A
156	1031299	Knights of Columbus	10815 Stang Road	Owings Mills	1	Forested (0.7); Agricultural (0.3)
157	1031300	Long Green Baptist Church	13010 Manor Road	Glen Arm	1	Residential (0.75); Agricultural (0.25)
158	1031301	McInnes & Barron DDS, Pa	16918 York Road	Monkton	1	Commercial (0.4); Residential (0.35); Agricultural (0.15); Forested (0.1)
159	1031302	Mt Carmel Animal Hospital	17004 York Road	Monkton	1	Commercial (0.4); Residential (0.3); Agricultural (0.25); Forested (0.05)
160	1031303	Mt Vista Golf Course	11101 Raphael Road	Bradshaw	1	Urban land (golf course) (0.6); Residential (0.35); Forested (0.05)
161	1031305	New Antioch Baptist Church	5616 Old Court Road	Randallstown	2	Residential (0.5); Agricultural (0.45); Institutional (0.05)
162	1031306	Peters Body Shop Inc	5629 Deer Park Road	Reisterstown	1	Agricultural (0.4); Residential (0.3); Forested (0.2); commerical (0.1)
163	1031307	Randallstown Animal Hospital	10022 Liberty Road	Randallstown	1	Residential (0.7); Commerical (0.2); Agricultural (0.1)
164	1031308	Reisterstown Veterinary Center	13030 Hanover Road	Reisterstown	1	Agricultural (0.45); Forested (0.35); Commerical (0.2)
165	1031309	May's General Store (Formerly Ritzmann's Country Store)	1512 Mount Carmel Road	Parkton	1	Agricultural (0.45); Forested (0.3); Residential (0.25)
166	1031310	Smoots Collision Center	1121 Berrymans Lane	Reisterstown	2	Agricultural (0.5); Residential (0.3); Forested (0.1); Commerical
167	1031311	Spring Meadow Farms / Smokers Catering	15513 Hanover Pike	Upperco	1	Agricultural (0.85); Commerical (0.1); Residential (0.05)

Table 1 Transient, Non-Community Public Water Systems in Baltimore County

No.	PWSID	PWS NAME	Address	City	No. of Sources	SWAA Land Use (Estimated Fractions)
168	1031313	St Stephens Episcopal Church	11856 Mays Chapel Road	Lutherville	1	Residential (0.5); Forested (0.3); urban land (golf course) (0.15); Institutional
169	1031317	Simonds Nursery	1141 Berrymans Lane	Reisterstown	1	Agricultural (0.7); Residential (0.2); Commerical (0.1)
170	1031318	Ballestone Mansion	1935 Back River Neck Road	Essex	1	Urban (golf Course) (1)
171	1031320	Funky Monkey Café (Formerly Gregs Bagel Shop)	16949 York Road	Monkton	1	Commercial (0.5); Residential (0.35); Agricultural (0.1); Institutional (0.05)
172	1031321	Highs	13523 Long Green Pike	Baltimore	1	Agricultural (0.7); Residential (0.2); Commerical (0.1)
173	1031322	Monkton Hotel Professional Bldg	1900 Monkton Road	Monkton	1	Agricultural (0.4); Forested (0.35); Residential (0.2); Institutional (0.05)
174	1031323	Royal Farm Store	14232 Jarrettsville Pike	Phoenix	1	Commercial (0.85); Residential (0.15)
175	1031324	St Marys Orthodox Church	909 Shawan Road	Hunt Valley	1	Agricultural (0.95); Institutional (0.05)
176	1031325	Caesars Empire	121 Earls Road	Baltimore	1	Commercial (0.6); Forested (0.4)
177	1031326	Summer Hill Club	13709 Harcum Road	Phoenix	1	Residential (0.65); Forested (0.3); Institutional (0.05)
178	1031327	Twin Oaks Carryout & General Store	17052 Troyer Road	Monkton	1	Agricultural (0.75); Residential (0.25)
179	1031328	Long & Fosters (Formerly Coldwell Banker / Grempler Realty)	14237 Jarrettsville Pike	Phoenix	1	Commercial (0.85); Residential (0.15)
180	1031329	Gunpowder Falls Freeland Ncr Trail	Freeland Road	Freeland	1	Agricultural (0.4); Forested (0.35); Residential (0.25)
181	1031330	Cedar Grove United Methodist Church	P.O. Box 333	Monkton	1	Agricultural (0.9); Residential (0.1)
182	1031331	Camp Milldale Pearlstone Retreat	5425 Mt Gilead Road	Reisterstown	2	Institutional (0.4); Forested (0.4); Agricultural (0.2)
183	1031332	Papa Johns Pizza	3434 Sweet Air Road	Phoenix	1	Commercial (0.55); Residential (0.45)
184	1031333	Prices Groceries & Spirits	14821 York Road	Sparks Glencoe	1	Residential (0.45); Agricultural (0.45); Commerical (0.1)
185	1031334	Pulaski Flea Market/Winners Corner Cafe	12420 Pulaski Highway	Baltimore	1	Industrial (0.6); Forested (0.4)
186	1031335	Camp Milldale Junior Camp	5425 Mt Gilead Road	Reisterstown	1	Institutional (0.8); Forested (0.2)
187	1031336	Camp Milldale Sports Arena	5425 Mt Gilead Road	Reisterstown	1	Institutional (0.75); Forested (0.25)
188	1031337	Camp Milldale Pool Area	5425 Mt Gilead Road	Reisterstown	1	Institutional (0.95); Forested (0.05)
189	1031339	Morris Meadows West Side Campground	1523 Freeland Road	Freeland	1	Forested (0.5); Institutional (0.3); Agricultural (0.15); Residential (0.05)
190	1031340	Morris Meadows Camp Site B-5	1523 Freeland Road	Freeland	1	Forested (0.5); Institutional (0.5)
191	1031341	Morris Meadows Pool/Snack Bar	1523 Freeland Road	Freeland	1	Institutional (0.5); Forested (0.5)
192	1031342	Morris Meadows Tennis Courts	1523 Freeland Road	Freeland	1	Forested (0.6); Institutional (0.4)
193	1031343	Morris Meadows Over The Hill Campsites	1523 Freeland Road	Freeland	1	Forested (0.75); Institutional (0.25)
194	1031344	Morris Meadows Lower Laundry	1523 Freeland Road	Freeland	1	Forested (0.75); Institutional (0.25)
195	1031345	Hereford Seafood (Formerly Bay Gourmet)	19638 York Rd	Monkton	1	Commercial (0.5); Residential (0.3); Agricultural (0.15); institutional
196	1031346	Fork Citgo	12601 Harford Rd	Kingsville	1	Agricultural (0.4); Residential (0.3); Commerical (0.15); Forested (0.15)
197	1031348	Morris Meadows - Maintenance Shed	1523 Freeland Rd	Freeland	1	Institutional (0.5); Forested (0.3); Agricultural (0.2)
198	1031350	St Pauls Lutheran Church	15212 Hanover Rd	Upperco	1	Agricultural (0.65); Residential (0.35)
199	1031351	Sparks Full Service Station	14920 York Rd	Sparks Glencoe	1	Agricultural (0.4); Residential (0.3); Forested (0.2); commercial (0.1)
200	1031352	Figaro's	20235 Middletown Rd	Freeland	1	Agricultural (0.4); Residential (0.35); Forested (0.15); commercial (0.1)

Table 2 Details of Sources in Transient Non-Community Public Water Systems in Baltimore County

No.	PWSID	PWS Name	Source ID ¹	Source Well Tag ²	Source Name	Total Depth (ft) ²	Aquifer
1	1030014	Forest Baptist Child Development Center	1		Forest Baptist Church School		Prettyboy Schist
2	1030019	Hereford Plaza (Michaels Pizza/ Highs)	1*	BA737854	Hereford Plaza (Michaels Pizza/ Highs)	200	Loch Raven Schist
3	1030064	Peerces Plantation	1*	BA920909	Peerce's Plantation	150	Cockeysville Marble
4	1030074	Baltimore County Greystone Golf Course	1	BA941645	Baltimore County Greystone Golf Course	300	Loch Raven Schist
5	1030079	Suburban Propane	2	BA944821	Suburban Propane New Well	200	Unknown
6	1031001	Albanstown Inn	1		Albanstown Inn		Unknown
7	1031002	American Legion #256 Parkton	2*	BA660585	American Legion #256 Parkton Stand By Well	175	Prettyboy Schist
8	1031002	American Legion #256 Parkton	1	BA816218	American Legion #256 Parkton	400	Prettyboy Schist
9	1031003	Arcadia Volunteer Fire Co	1		Arcadia Volunteer Fire Co	500	Unknown
10	1031007	Baltimore County Baptist Church	1		Baltimore County Baptist Church	160	Pleasant Grove Schist
11	1031012	Boring Vol Fire Dept	1		Boring Vol Fire Dept	200	Pleasant Grove Schist
12	1031016	Butler Store & Liquors	1		Butler Store & Liquors		Unknown
13	1031017	Butler Volunteer Fire Co	1	BA810984	Butler Volunteer Fire Co	100	Unknown
14	1031022	Cherrys Inn	1*	BA920045	Cherrys Inn	100	Unknown
15	1031024	Chestnut Grove Presbyterian Church	1	BA882622	Chestnut Grove Presbyterian Church	250	Loch Raven Schist
16	1031029	Countryside Carryout	1	BA737167	Countryside Carryout	175	Unknown
17	1031031	Deer Park United Methodist Church	1		Deer Park United Methodist Church		Unknown
18	1031032	Dew Drop Inn & Beef Pit	1*	BA670556	Dew Drop Inn & Beef Pit	305	Upland Deposits
19	1031039	Eklo Inn	1	BA811225	Eklo Inn	125	Prettyboy Schist
20	1031040	Elmos Luncheonette	1		Elmos Luncheonette		Unknown
21	1031043	Parkton Exxon	1*	BA942226	Parkton Exxon	200	Unknown
22	1031044	Farmer Johns	1	BA736946	Farmer Johns	92	Unknown
23	1031046	North Star	1	BA710319	North Star Well 1	200	Sykesville Formation
24	1031046	North Star	2	BA810386	North Star Well 2	250	Unknown
25	1031047	First Baptist Church of Hereford	1		First Baptist Church of Hereford		Unknown
26	1031055	Congregation Rosh Pina	1	BA882568	Congregation Rosh Pina	350	Loch Raven Schist
27	1031056	Kingsville Tavern	1		Kingsville Tavern		Unknown
28	1031057	Grace United Methodist Church	1		Grace United Methodist Church		Unknown
29	1031059	Granite Presbyterian Church	1		Granite Presbyterian Church		Unknown
30	1031061	Gray & Sons Inc	1		Gray & Sons Inc	294	Unknown
31	1031062	Green Valley Swim Club	1*	BA019447	Green Valley Swim Club	105	Sykesville Formation
32	1031062	Green Valley Swim Club	2*	BA720554	Green Valley Swim Club Well 2	250	Sykesville Formation
33	1031064	Gunpowder Baptist Church	1		Gunpowder Baptist Church		Unknown
34	1031064	Gunpowder Baptist Church	2		Gunpowder Baptist Church Well 2		Unknown
35	1031066	Hereford Assembly of God	1		Hereford Assembly of God		Unknown
36	1031067	Hereford United Methodist Church	1		Hereford United Methodist Church		Unknown
37	1031068	Highs	1		Highs		Unknown
38	1031070	Colonial Inn	1*	BA946914	Colonial Inn		Unknown
39	1031072	Island View Waterfront Café	1		Island View Waterfront Café	350	Unknown
40	1031074	Jacksonville Exxon	1	BA737935	Jacksonville Exxon		Loch Raven Schist
41	1031078	Jacksonville Volunteer Fire Co	1	BA883210	Jacksonville Volunteer Fire Co	450	Loch Raven Schist
42	1031078	Jacksonville Volunteer Fire Co	2	BA883260	Jacksonville Volunteer Fire Co Well 2	300	Loch Raven Schist
43	1031080	Kings Court Motel	1	BA009375	Kings Court Motel	71	Bradshaw Layered Amphibolite
44	1031082	Kingsville Athletic Field House	1		Kingsville Athletic Field House		Unknown
45	1031083	Kingsville Food Rite	1		Kingsville Food Rite	100	Bradshaw Layered Amphibolite
46	1031085	Kingsville Volunteer Fire Co	1	BA680078	Kingsville Volunteer Fire Co	185	Bradshaw Layered Amphibolite
47	1031086	Lakeview Swim Club	1		Lakeview Swim Club		Unknown
48	1031087	Lees Tavern	1*	BA731065	Lees Tavern	200	Unknown

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No.	PWSID	PWS Name	Source ID ¹	Source Well Tag ²	Source Name	Total Depth (ft) ²	Aquifer
49	1031089	Liberty Reformed Presbyterian Church	1*	BA690483	Liberty Reformed Presbyterian Church	70	Balto. Gabbro Complex
50	1031090	Little Falls Tavern	1		Little Falls Tavern		Unknown
51	1031093	Loch Raven Fishing Center	1		Loch Raven Fishing Center	80	Cockeysville Marble
52	1031094	Loch Raven Skeet & Trap Club	1		Loch Raven Skeet & Trap Club Well in Pit		Unknown
53	1031095	Timber Creek Tavern	1		Timber Creek Tavern		Unknown
54	1031098	Long Green Volunteer Fire Co	1*	BA700355	Long Green Volunteer Fire Co	250	Loch Raven Schist
55	1031098	Long Green Volunteer Fire Co	2*	BA944324	Long Green Volunteer Fire Co Well 2	500	Loch Raven Schist
56	1031098	Long Green Volunteer Fire Co	3*	BA930535	Long Green Volunteer Fire Co Well 3	300	Loch Raven Schist
57	1031103	Manor Tavern Inc	1		Manor Tavern Inc		Cockeysville Marble
58	1031103	Manor Tavern Inc	2		Manor Tavern Inc Well 2		Cockeysville Marble
59	1031106	Maryland Line Inn	1		Maryland Line Inn	140	Unknown
60	1031108	Maryland Line Vol Fire Co	1		Maryland Line Vol Fire Co		Unknown
61	1031112	Midway Inn / Midway Liquors	1	BA945755	Midway Inn / Midway Liquors		Unknown
62	1031114	Milton Inn	1*	BA700398	Milton Inn	200	Baltimore Gneiss
63	1031115	Lee's Valley Gourmet	2	BA815806	Lee's Valley Gourmet Well 2		Unknown
64	1031116	Reisterstown Moose Lodge #1577	1	BA920313	Reisterstown Moose Lodge #1577	300	Unknown
65	1031117	Morris Meadows Recreation Farm Inc	2	BA738279	Morris Meadows Recreation Farm Inc	145	Unknown
66	1031117	Morris Meadows Recreation Farm Inc	3	BA941483	Morris Meadows Recreation Farm Inc Well 2		Unknown
67	1031118	Mount Carmel United Methodist Church	1		Mount Carmel United Methodist Church	114	Unknown
68	1031120	Oregon Ridge Park Nature Center	1	BA737339	Oregon Ridge Park Nature Center	223	Unknown
69	1031121	Oregon Ridge Park Lodge	1	BA815810	Oregon Ridge Park Lodge Well 1	275	Unknown
70	1031121	Oregon Ridge Park Lodge	2	BA815811	Oregon Ridge Park Lodge Well 2	300	Unknown
71	1031121	Oregon Ridge Park Lodge	3	BA815898	Oregon Ridge Park Lodge Well 3	300	Unknown
72	1031121	Oregon Ridge Park Lodge	4	BA815812	Oregon Ridge Park Lodge Well 4	250	Unknown
73	1031123	Oregon Ridge Park Beach	1	BA731643	Oregon Ridge Park Beach	350	Unknown
74	1031126	Park Inn	1*	BA737857	Park Inn	150	Prettyboy Schist
75	1031129	Papermill Recreation Center	1	BA810625	Papermill Recreation Center	200	Loch Raven Schist
76	1031133	Pioneer House	1*	BA810377	Pioneer House	100	Loch Raven Schist
77	1031134	Pleasant Grove United Methodist Church	1		Pleasant Grove United Methodist Church Well 1	142	Pleasant Grove Schist
78	1031134	Pleasant Grove United Methodist Church	2	BA733119	Pleasant Grove United Methodist Church Well 2		Unknown
79	1031135	Pleasant Hill Chapel	2	BA818460	Pleasant Hill Chapel Well 2		Unknown
80	1031140	Redeemer Lutheran Church	1	BA883927	Redeemer Lutheran Church	450	Unknown
81	1031141	American Legion #116 Reisterstown	1	BA812295	American Legion #116 Reisterstown	120	Sykesville Formation
82	1031144	Rileys Marina	1		Rileys Marina		Unknown
83	1031145	Rocky Point Beach	2	BA811262	Rocky Point Beach Stand-By Well	85	Patapsco Formation
84	1031145	Rocky Point Beach	1	BA736256	Rocky Point Beach	110	Patapsco Formation
85	1031146	Roma Carry Out	1		Roma Carry Out		Unknown
86	1031146	Roma Carry Out	2		Roma Carry Out Well 2		Unknown
87	1031153	Sportsmans Hall Roller Rink	1		Sportsmans Hall Roller Rink	70	Prettyboy Schist
88	1031157	St Johns Episcopal Church	1	BA811144	St Johns Episcopal Church	100	Unknown
89	1031158	St Paul United Brethren Church in Christ	1	BA921053	St Paul United Brethren Church in Christ	205	Prettyboy Schist
90	1031159	St Peters Lutheran	1*	BA660740	St Peters Lutheran	140	Wissahickon Formation
91	1031160	St Alphonsus Rodriguez Church	1*	BA810931	St Alphonsus Rodriguez Church	453	Baltimore Gneiss
92	1031163	Thompsons Food Market	1*	BA815116	Thompsons Food Market	200	Unknown
93	1031168	Valley Inn	1		Valley Inn		Unknown
94	1031170	Wagon Wheel Restaurant	1*	BA930513	Wagon Wheel Restaurant	205	Unknown
95	1031171	Wards Chapel Umc / Preschool	1		Wards Chapel Umc / Preschool		Unknown
96	1031173	West Liberty Carryout	1	BA738131	West Liberty Carryout	145	Unknown

Table 2 Details of Sources in Transient Non-Community Public Water Systems in Baltimore County

No.	PWSID	PWS Name	Source ID ¹	Source Well Tag ²	Source Name	Total Depth (ft) ²	Aquifer
97	1031176	Woodensburg Country Store	1		Woodensburg Country Store		Unknown
98	1031178	Worthington Valley Country Club	1	BA810541	Worthington Valley Country Club	165	Unknown
99	1031179	Worthington Valley Swim Club	1*	BA034656	Worthington Valley Swim Club	342	Loch Raven Schist
100	1031184	Four Corners Amoco	1		Four Corners Amoco		Unknown
101	1031185	Camp Holiday	1*	BA026574	Camp Holiday	145	Loch Raven Schist
102	1031185	Camp Holiday	2*	BA035734	Camp Holiday Well 2	75	Loch Raven Schist
103	1031186	Camp Puh'Tok / Nature Camps	1	BA818300	Camp Puh'Tok / Nature Camps		Unknown
104	1031186	Camp Puh'Tok / Nature Camps	2		Camp Puh'Tok / Nature Camps Well 2		Unknown
105	1031186	Camp Puh'Tok / Nature Camps	3		Camp Puh'Tok / Nature Camps Well 3		Unknown
106	1031188	Chestnut Ridge Farm Market	1	BA737837	Chestnut Ridge Farm Market	400	Unknown
107	1031189	Chestnut Ridge VFD	1		Chestnut Ridge VFD		Unknown
108	1031191	Club 3960 Inc	1		Club 3960 Inc		Unknown
109	1031196	Cutters Marina	1		Cutters Marina		Unknown
110	1031197	Piney Branch Country Club	1	BA920648	Piney Branch Country Club	110	Unknown
111	1031198	Fairview Um Church	2	BA880351	Fairview Um Church Well 2	400	Unknown
112	1031199	Fork Deli	1		Fork Deli		Unknown
113	1031200	Fork United Methodist Church	1		Fork United Methodist Church		Unknown
114	1031202	Long Green Valley St/ Maple Hill Farm Mk	1		Long Green Valley St/ Maple Hill Farm Mk		Unknown
115	1031203	Hereford Volunteer Fire Co	1		Hereford Volunteer Fire Co	150	Loch Raven Schist
116	1031204	John Browns Store	1	BA737618	John Browns Store	220	Unknown
117	1031207	Maryland State Police Firing Range	1	BA881114	Maryland State Police Firing Range	200	Ultramafic And Gabbroic Rocks
118	1031210	Independent Order of Oddfellows #22	1		Independent Order of Oddfellows #22		Unknown
119	1031212	Palmisanos of Baldwin	1		Palmisanos of Baldwin		Unknown
120	1031213	Parke Memorial United Methodist Church	1		Parke Memorial United Methodist Church		Unknown
121	1031214	Prettyboy Market	1		Prettyboy Market		Unknown
122	1031215	Valley Wine Shop Inc	1		Valley Wine Shop Inc		Unknown
123	1031218	Salem Um Church	1	BA738093	Salem Um Church	125	Bradshaw Layered Amphibolite
124	1031219	Sanders Corner	1		Sanders Corner		Unknown
125	1031220	Sheffield Recordings Limited Inc	1		Sheffield Recordings Limited Inc		Unknown
126	1031221	Stevenson AME Church	1	BA920154	Stevenson Ame Church	200	Unknown
127	1031224	Catonsville Elks Lodge #2323	1*	BA731205	Catonsville Elks Lodge #2323	225	Guilford Quartz Monzonite
128	1031226	Gunpowder Falls St Pk Sparks Nature Ctr	1	BA920997	Gunpowder Falls St Pk Sparks Nature Ctr	400	Unknown
129	1031227	Original Hawaiian Island Snoball	1		Original Hawaiian Island Snoball		Unknown
130	1031228	Immanuel Episcopal Church	1*	BA817150	Immanuel Episcopal Church	200	Baltimore Gneiss
131	1031230	Maryland Line United Methodist Church	1*	BA690308	Maryland Line United Methodist Church	125	Wissahickon Formation
132	1031231	Maryland Line Service Center	1		Maryland Line Service Center	120	Unknown
133	1031232	Meadowcroft Exxon	1		Meadowcroft Exxon	236	Loch Raven Schist
134	1031234	Msgr O'Dwyer Retreat House	2		Msgr O'Dwyer Retreat House	500	Baltimore Gneiss
135	1031234	Msgr O'Dwyer Retreat House	3	BA738198	Msgr O'Dwyer Retreat House	300	Baltimore Gneiss
136	1031234	Msgr O'Dwyer Retreat House	4		Msgr O'Dwyer Retreat House	400	Baltimore Gneiss
137	1031234	Msgr O'Dwyer Retreat House	1*	BA920625	Msgr O'Dwyer Retreat House	400	Baltimore Gneiss
138	1031234	Msgr O'Dwyer Retreat House	5*	BA731479	Msgr O'Dwyer Retreat House	225	Baltimore Gneiss
139	1031235	Pats Greenwood Deli	1	BA670344	Pats Greenwood Deli	215	Loch Raven Schist
140	1031236	Ridge Country Store	1		Ridge Country Store		Unknown
141	1031237	Rocky Point Golf Course	1*	BA735374	Rocky Point Golf Course	64	Patapsco Formation
142	1031241	West Liberty Um Church	1		West Liberty Um Church		Unknown
143	1031245	Beachmont Christian Camp	1	BA731478	Beachmont Christian Camp	200	Unknown
144	1031248	Gunpowder Youth Camp Kalor	1		Gunpowder Youth Camp Kalor		Unknown

Table 2 Details of Sources in Transient Non-Community Public Water Systems in Baltimore County

No.	PWSID	PWS Name	Source ID ¹	Source Well Tag ²	Source Name	Total Depth (ft) ²	Aquifer
145	1031249	Clynmalira Methodist Church	1		Clynmalira Methodist Church		Unknown
146	1031250	Fork Plaza / Highs / Johnny Ryans	1	BA818467	Fork Plaza / Highs / Johnny Ryans	200	Unknown
147	1031252	Long Green Church of Brethren	1		Long Green Church of Brethren		Unknown
148	1031253	Camp Milldale Main Office	1		Camp Milldale Main Office		Unknown
149	1031255	St Johns Episcopal Church	1		St Johns Episcopal Church		Unknown
150	1031256	St Johns Lutheran Church	1	BA941880	St Johns Lutheran Church	143	Unknown
151	1031256	St Johns Lutheran Church	2		St Johns Lutheran Church Well Pit	143	Unknown
152	1031259	Paul E Field Jr DDS Pa	1		Paul E Field Jr DDS Pa		Unknown
153	1031260	Charcoal Grill	1	BA813777	Charcoal Grill	500	Loch Raven Schist
154	1031263	Fork Christian Church	1	BA734706	Fork Christian Church	149	Unknown
155	1031264	Genesee Valley Learning Center	1*		Genesee Valley Learning Center		Unknown
156	1031264	Genesee Valley Learning Center	2*		Genesee Valley Learning Center Well 2		Unknown
157	1031264	Genesee Valley Learning Center	3*		Genesee Valley Learning Center Well 3		Unknown
158	1031265	Lassahn Funeral Home	1	BA009414	Lassahn Funeral Home	72	Bradshaw Layered Amphibolite
159	1031266	Dons Place	1		Dons Place		Unknown
160	1031273	Gunpowder Falls St Pk Camp Cone	1	BA883804	Gunpowder Falls St Pk Camp Cone	300	Patapsco Formation
161	1031274	Gunpowder Falls St Pk Camp Wood	1		Gunpowder Falls St Pk Camp Wood		Loch Raven Schist
162	1031275	Gunpowder Falls St Pk Days Cove	1	BA943140	Gunpowder Falls St Pk Days Cove	115	Patapsco Formation
163	1031276	Gunpowder Falls St Pk Monkton Train St	1	BA881654	Gunpowder Falls St Pk Monkton Train St	175	Baltimore Gneiss
164	1031278	Cromwell Valley Merrick House	1		Cromwell Valley Merrick House Well Pit		Unknown
165	1031279	Cromwell Valley Sherwood House	2		Cromwell Valley Sherwood House Stand By Well		Unknown
166	1031279	Cromwell Valley Sherwood House	1		Cromwell Valley Sherwood House Well Pit		Unknown
167	1031280	Boordy Vineyards	1		Boordy Vineyards		Unknown
168	1031281	Bosley United Methodist Church	1*	BA690410	Bosley United Methodist Church	175	Baltimore Gneiss
169	1031283	Catholic Community of St Francis Xavier	1	BA941867	Catholic Community of St Francis Xavier	300	Baltimore Gneiss
170	1031283	Catholic Community of St Francis Xavier	2		Catholic Community of St Francis Xavier Well 2		Baltimore Gneiss
171	1031284	Covenant of Grace Presbyterian Church	1	BA812814	Covenant of Grace Presbyterian Church	100	Loch Raven Schist
172	1031285	Creekside Clipper	1	BA944636	Creekside Clipper	200	Unknown
173	1031286	Freeland Kingdom Hall	1		Freeland Kingdom Hall		Unknown
174	1031288	Gunpowder Falls St Pk Hart-Miller Island	1	BA883315	Gunpowder Falls St Pk Hart-Miller Island		Unknown
175	1031290	Hasslingers/ St James Church	1		Hasslingers/ St James Church		Unknown
176	1031291	Hayes Construction Co Inc	1	BA814344	Hayes Construction Co Inc	600	Unknown
177	1031291	Hayes Construction Co Inc	2	BA814485	Hayes Construction Co Inc	600	Unknown
178	1031292	Hereford Golf Center	1	BA940569	Hereford Golf Center	350	Unknown
179	1031293	Hunt Valley Presbyterian Church	1	BA941561	Hunt Valley Presbyterian Church	475	Cockeysville Marble
180	1031294	Immanuel Baptist Church	1	BA812690	Immanuel Baptist Church	425	Perry Hall Gneiss
181	1031295	Isaiah Baptist Church	1		Isaiah Baptist Church		Unknown
182	1031296	Jacksonville Church of God	1	BA731524	Jacksonville Church of God	150	Setters Formation
183	1031298	Jehovahs Witness Kingdom Hall	1	BA880612	Jehovahs Witness Kingdom Hall	185	Unknown
184	1031299	Knights of Columbus	1		Knights of Columbus	200	Unknown
185	1031300	Long Green Baptist Church	1		Long Green Baptist Church		Unknown
186	1031301	McInnes & Barron DDS, Pa	1	BA941476	McInnes & Barron DDS, Pa	300	Unknown
187	1031302	Mt Carmel Animal Hospital	1		Mt Carmel Animal Hospital		Unknown
188	1031303	Mt Vista Golf Course	1	BA882726	Mt Vista Golf Course	300	Bradshaw Layered Amphibolite
189	1031305	New Antioch Baptist Church	1	BA941505	New Antioch Baptist Church	300	Loch Raven Schist
190	1031305	New Antioch Baptist Church	2	BA883667	New Antioch Baptist Church Well 2	200	Loch Raven Schist
191	1031306	Peters Body Shop Inc	1	BA738094	Peters Body Shop Inc	145	Ultramafic Rocks
192	1031307	Randallstown Animal Hospital	1		Randallstown Animal Hospital		Unknown

Table 2 Details of Sources in Transient Non-Community Public Water Systems in Baltimore County

No.	PWSID	PWS Name	Source ID ¹	Source Well Tag ²	Source Name	Total Depth (ft) ²	Aquifer
193	1031308	Reisterstown Veterinary Center	1	BA710391	Reisterstown Veterinary Center	150	Loch Raven Schist
194	1031309	May's General Store	1	BA811522	May's General Store	300	Unknown
195	1031310	Smoots Collision Center	1*		Smoots Collision Center Well 1		Unknown
196	1031310	Smoots Collision Center	2*		Smoots Collision Center Well 2		Unknown
197	1031311	Spring Meadow Farms / Smokers Catering	1	BA814719	Spring Meadow Farms / Smokers Catering	160	Unknown
198	1031313	St Stephens Episcopal Church	1		St Stephens Episcopal Church		Loch Raven Schist
199	1031317	Simonds Nursery	1	BA930306	Simonds Nursery	250	Unknown
200	1031318	Ballestone Mansion	1	BA881615	Ballestone Mansion		Unknown
201	1031320	Funky Monkey Café	1		Funky Monkey Café		Unknown
202	1031321	Highs	1	BA882471	Highs	250	Unknown
203	1031322	Monkton Hotel Professional Bldg	1	BA944033	Monkton Hotel Professional Bldg	203	Unknown
204	1031323	Royal Farm Store	1		Royal Farm Store		Loch Raven Schist
205	1031324	St Marys Orthodox Church	1	BA815804	St Marys Orthodox Church	100	Cockeysville Marble
206	1031325	Caesars Empire	1		Caesars Empire		Unknown
207	1031326	Summer Hill Club	1		Summer Hill Club		Loch Raven Schist
208	1031327	Twin Oaks Carryout & General Store	1		Twin Oaks Carryout & General Store		Unknown
209	1031328	Long & Fosters	1	BA942836	Long & Fosters	600	Unknown
210	1031329	Gunpowder Falls Freeland Ncr Trail	1	BA943566	Gunpowder Falls Freeland Ncr Trail	200	Prettyboy Schist
211	1031330	Cedar Grove United Methodist Church	1		Cedar Grove United Methodist Church		Unknown
212	1031331	Camp Milldale Pearlstone Retreat	1	BA943778	Camp Milldale Pearlstone Retreat	250	Unknown
213	1031331	Camp Milldale Pearlstone Retreat	2	BA920995	Camp Milldale Pearlstone Retreat	205	Pleasant Grove Schist
214	1031332	Papa Johns Pizza	1	BA940951	Papa Johns Pizza	250	Loch Raven Schist
215	1031333	Prices Groceries & Spirits	1		Prices Groceries & Spirits	500	Unknown
216	1031334	Pulaski Flea Market/Winners Corner Cafe	1*	BA737169	Pulaski Flea Market/Winners Corner Cafe	47	Unknown
217	1031335	Camp Milldale Junior Camp	1		Junior Camp Well	250	Pleasant Grove Schist
218	1031336	Camp Milldale Sports Arena	1		Sports Arena Well	250	Pleasant Grove Schist
219	1031337	Camp Milldale Pool Area	1		Pool Area Well	250	Pleasant Grove Schist
220	1031339	Morris Meadows West Side Campground	1	BA920784	Morris Meadows West Side Campground	300	Unknown
221	1031340	Morris Meadows Camp Site B-5	1*	BA700333	Morris Meadows Camp Site B-5	100	Prettyboy Schist
222	1031341	Morris Meadows Pool/Snack Bar	1	BA737320	Morris Meadows Pool/Snack Bar	245	Prettyboy Schist
223	1031342	Morris Meadows Tennis Courts	1	BA941405	Morris Meadows Tennis Courts	305	Prettyboy Schist
224	1031343	Morris Meadows Over The Hill Campsites	1*	BA736557	Morris Meadows Over The Hill Campsites	145	Prettyboy Schist
225	1031344	Morris Meadows Lower Laundry	1		Morris Meadows Lower Laundry	135	Prettyboy Schist
226	1031345	Hereford Seafood	1	BA817182	Hereford Seafood		Unknown
227	1031346	Fork Citgo	1		Fork Citgo		Unknown
228	1031348	Morris Meadows - Maintenance Shed	1	BA815320	Morris Meadows - Maintenance Shed	250	Unknown
229	1031350	St Pauls Lutheran Church	1		St Pauls Lutheran Church		Unknown
230	1031351	Sparks Full Service Station	1	BA944544	Sparks Full Service Station		Unknown
231	1031352	Figaro's	1		Figaro's	55	Unknown

¹ Source ID is used to link specific well locations to information retained in MDE files/databases such as well depth and construction date; for this project Source IDs were assigned to wells by correlation of well tags observed in the field to permit numbers in MDE database/sanitary surveys; for wells without tags, Source ID was assigned based upon best available information such as descriptive well names; these Source IDs are marked with asterisks

² For Source IDs marked with an asterisk, Well Tag Number and Depth could not be confirmed (see note 1)

Table 3 Summary of Water-Quality Data for Transient, Non-Community Public Water Systems in Baltimore County

Type	Number of Records	Earliest Date	Most Recent Date
Bacteriological (Coliform)	4,441	January-96	December-02
Nitrate/Nitrite	1,168	January-93	January-03
Summary	5,609	January-93	January-03

Table 4 Summary of Nitrate Data for Transient, Non-Community Public Water Systems

No.	PWSID	PWS Name	Earliest Sample	Most Recent Sample	Number of Samples	Number Exceeding Half MCL	Number Exceeding MCL	Percent Exceeding Half MCL*	LAND USE IN SWAA (In Descending Importance)
1	1030014	Forest Baptist Child Development Center	Jan-93	Oct-02	35	26		74%	Residential, Agricultural, Forested
2	1030019	Hereford Plaza (Michaels Pizza/ Highs)	Sep-96	Sep-02	14	13		93%	Commercial, Agricultural, Residential
3	1030064	Peerces Plantation	Dec-93	Jan-00	10	1		10%	Agricultural, Forested
4	1030074	Baltimore County Greystone Golf Course	May-97	Feb-02	6	1		17%	Urban (Golf Course), Residential, Forested
5	1030079	Suburban Propane	Nov-00	May-02	4	1		25%	Agricultural, Residential, Industrial
6	1031001	Albanstown Inn	Aug-98	Jan-02	6	6	6	100%	Agricultural, Residential, Forested
7	1031002	American Legion #256 Parkton	Jun-99	Feb-02	6				Residential, Forested, Transportation
8	1031003	Arcadia Volunteer Fire Co	Sep-96	Jun-02	8	1		13%	Residential, Agricultural, Institutional
9	1031007	Baltimore County Baptist Church	Aug-98	Feb-02	6	5		83%	Agricultural, Institutional
10	1031012	Boring Vol Fire Dept	Aug-97	Jul-02	9	7		78%	Agricultural, Residential, Institutional
11	1031016	Butler Store & Liquors	May-99	Sep-02	4				Agricultural, Commercial, Residential
12	1031017	Butler Volunteer Fire Co	May-99	Apr-02	4	1		25%	Agricultural, Forested, Commercial
13	1031022	Cherys Inn	Jul-99	Feb-02	4	4		100%	Agricultural, Commercial, Residential
14	1031024	Chestnut Grove Presbyterian Church	May-97	Apr-02	6				Residential, Institutional, Forested
15	1031029	Countryside Carryout	Sep-96	Jan-02	8				Agricultural, Institutional, Commercial
16	1031031	Deer Park United Methodist Church	Aug-98	Feb-02	3	3		100%	Residential, Forested
17	1031032	Dew Drop Inn & Beef Pit	Aug-97	Jan-02	7				Agricultural, Forested, Residential
18	1031039	Eklo Inn	Sep-96	Feb-02	6	6	1	100%	Agricultural, Forested
19	1031040	Elmos Luncheonette	Aug-98	Apr-02	14	8	7	57%	Agricultural, Residential, Commercial
20	1031043	Parkton Exxon	Aug-98	Aug-02	5				Forested, Agricultural, Transportation
21	1031044	Farmer Johns	Jul-97	Feb-02	5				Agricultural, Forested
22	1031046	North Star	Aug-98	Aug-02	4	1		25%	Agricultural, Residential, Commercial
23	1031047	First Baptist Church of Hereford	May-99	Apr-02	4				Commercial, Residential, Agricultural
24	1031055	Congregation Rosh Pina	Jul-97	Feb-02	6				Residential, Forested
25	1031056	Kingsville Tavern	Aug-98	Feb-02	5				Residential, Agricultural, Forested
26	1031057	Grace United Methodist Church	Apr-99	Jan-02	4				Agricultural, Residential, Forested
27	1031059	Granite Presbyterian Church	Apr-00	Jan-02	3				Residential, Agricultural
28	1031061	Gray & Sons Inc	Sep-99	Jan-02	4				Forested, Urban (Bare Ground), Agricultural
29	1031062	Green Valley Swim Club	Apr-97	May-02	6				Forested, Agricultural
30	1031064	Gunpowder Baptist Church	Sep-98	Feb-02	10				Agricultural, Forested, Institutional
31	1031066	Hereford Assembly of God	Aug-98	Feb-02	8	8	6	100%	Residential, Agricultural, Forested
32	1031067	Hereford United Methodist Church	Aug-98	Feb-02	9	8		89%	Commercial, Residential, Agricultural
33	1031068	Highs	Aug-97	Feb-02	8	8		100%	Agricultural, Residential, Commercial
34	1031070	Colonial Inn	Aug-97	Feb-02	6	5		83%	Agricultural, Residential
35	1031072	Island View Waterfront Café	Aug-98	Feb-02	4				N/A
36	1031074	Jacksonville Exxon	Apr-00	Apr-02	4	2		50%	Commercial, Residential
37	1031078	Jacksonville Volunteer Fire Co	Jun-99	Apr-02	4				Residential, Commercial, Institutional
38	1031080	Kings Court Motel	Aug-98	Feb-02	5				Commercial, Forested, Institutional
39	1031082	Kingsville Athletic Field House	Aug-97	Feb-02	5				Forested, Institutional
40	1031083	Kingsville Food Rite	Aug-98	Feb-02	5				Residential, Commercial, Forested
41	1031085	Kingsville Volunteer Fire Co	Aug-98	Feb-02	5	5		100%	Residential, Agricultural
42	1031086	Lakeview Swim Club	Jul-00	Aug-02	3				Residential
43	1031087	Lees Tavern	Sep-96	Feb-02	8	6	1	75%	Residential, Transportation, Forested
44	1031089	Liberty Reformed Presbyterian Church	Jun-99	Jan-02	5				Agricultural, Institutional, Forested
45	1031090	Little Falls Tavern	Dec-98	Sep-02	5	1		20%	Forested, Residential, Commercial
46	1031093	Loch Raven Fishing Center	Jul-96	Apr-01	7				Forested, Water, Agricultural
47	1031094	Loch Raven Skeet & Trap Club	Dec-99	May-00	2				Forested, Institutional
48	1031095	Timber Creek Tavern	Dec-98	Oct-02	6				Forested, Residential, Transportation
49	1031098	Long Green Volunteer Fire Co	Jul-99	Aug-02	4	1		25%	Residential, Agricultural, Forested
50	1031103	Manor Tavern Inc	Aug-99	Feb-02	5	1		20%	Agricultural, Forested
51	1031106	Maryland Line Inn	Apr-96	Nov-02	8	8	4	100%	Agricultural, Residential, Commercial

Table 4 Summary of Nitrate Data for Transient, Non-Community Public Water Systems

No.	PWSID	PWS Name	Earliest Sample	Most Recent Sample	Number of Samples	Number Exceeding Half MCL	Number Exceeding MCL	Percent Exceeding Half MCL*	LAND USE IN SWAA (In Descending Importance)
52	1031108	Maryland Line Vol Fire Co	Sep-96	Feb-02	8	4	3	50%	Agricultural, Residential, Commerical
53	1031112	Midway Inn / Midway Liquors	Jun-99	Feb-02	5				Commercial, Agricultural, Forested, Transportation
54	1031114	Milton Inn	Apr-98	Apr-02	5				Agricultural, Residential, Commerical
55	1031115	Lee's Valley Gourmet	Apr-97	Apr-02	6				Residential, Forested, Agricultural
56	1031116	Reisterstown Moose Lodge #1577	Jul-97	Nov-01	5	1		20%	Forested, Institutional
57	1031117	Morris Meadows Recreation Farm Inc	Sep-98	Feb-02	29	9		31%	Agricultural, Forested, Residential
58	1031118	Mount Carmel United Methodist Church	Aug-97	Feb-02	8	1		13%	Agricultural, Institutional, Residential
59	1031120	Oregon Ridge Park Nature Center	Aug-98	Mar-02	11	1		9%	Forested, Institutional
60	1031121	Oregon Ridge Park Lodge	Sep-96	Mar-02	4				Agricultural, Forested, Residential
61	1031123	Oregon Ridge Park Beach	May-00	Aug-02	6				Forested, Agricultural, Institutional
62	1031126	Park Inn	Aug-96	Jul-02	6				Residential, Forested
63	1031129	Papermill Recreation Center	Aug-98	Feb-02	8	2		25%	Residential, Institutional, Forested
64	1031133	Pioneer House	Dec-98	Jul-02	6	4		67%	Forested, Institutional, Transportation
65	1031134	Pleasant Grove United Methodist Church	Jun-99	Nov-02	9	4		44%	Agricultural, Residential, Forested
66	1031135	Pleasant Hill Chapel	May-99	Apr-02	4	3		75%	Residential, Forested, Agricultural, Institutional
67	1031140	Redeemer Lutheran Church	Aug-98	Feb-02	5	5		100%	Institutional, Residential, Forested, Transportation
68	1031141	American Legion #116 Reisterstown	Aug-98	Feb-02	5	5		100%	Agricultural, Forested, Institutional
69	1031144	Rileys Marina	Aug-98	Feb-02	5				Commercial, Forested, Residential
70	1031145	Rocky Point Beach	Aug-96	Aug-02	11	2		18%	N/A
71	1031146	Roma Carry Out	Jul-96	Jul-02	7	7		100%	Commercial, Residential, Institutional
72	1031153	Sportsmans Hall Roller Rink	Jan-99	Jan-02	6	6	5	100%	Agricultural, Commerical, Forested
73	1031157	St Johns Episcopal Church	May-99	Apr-02	8	5		63%	Agricultural, Institutional
74	1031158	St Paul United Brethren Church in Christ	Jun-99	Sep-02	5	5		100%	Agricultural
75	1031159	St Peters Lutheran	Oct-99	Mar-02	6				Forested, Agricultural, Institutional
76	1031160	St Alphonsus Rodriguez Church	Aug-98	Oct-02	8	1		13%	Forested, Agricultural, Institutional
77	1031163	Thompsons Food Market	Sep-96	Feb-02	7	4	3	57%	Agricultural, Residential, Commerical, Institutional
78	1031168	Valley Inn	Aug-97	Jan-02	6				Forested, Commerical, Transportation
79	1031170	Wagon Wheel Restaurant	Sep-96	Feb-02	7	7		100%	Agricultural, Commerical, Forested
80	1031171	Wards Chapel Umc / Preschool	Jan-98	Apr-02	8	6	5	75%	Agricultural, Residential, Commerical, Forested
81	1031173	West Liberty Carryout	Oct-99	Aug-00	2	2		100%	Agricultural, Residential, Forested, Commerical
82	1031176	Woodensburg Country Store	Nov-99	Mar-02	4	2		50%	Agricultural, Residential, Forested
83	1031178	Worthington Valley Country Club	Aug-97	May-02	7	2		29%	Residential, Urban (Country Club), Agricultural
84	1031179	Worthington Valley Swim Club	May-97	May-02	5	5		100%	Residential, Agricultural, Institutional
85	1031184	Four Corners Amoco	Jan-99	Jan-02	4	3		75%	Commercial, Residential
86	1031185	Camp Holiday	Jun-99	Jun-02	7				Agricultural, Institutional, Forested
87	1031186	Camp Puh Tok / Nature Camps	Aug-98	May-02	16	1	1	6%	Forested, Residential, Institutional
88	1031188	Chestnut Ridge Farm Market	Jul-99	Dec-02	11	11	1	100%	Residential, Forested, Industrial, Agricultural
89	1031189	Chestnut Ridge VFD	Aug-97	Feb-02	6				Agricultural, Institutional, Residential
90	1031191	Club 3960 Inc	Jun-99	Sep-02	5	1		20%	Residential, Commerical, Agricultural
91	1031196	Cutters Marina	Aug-98	Feb-02	5				Commercial, Forested
92	1031197	Piney Branch Country Club	Aug-98	Feb-02	5	5		100%	Urban (Country Club), Agricultural
93	1031198	Fairview Um Church	Jan-00	Jun-02	2				Residential, Agricultural, Institutional
94	1031199	Fork Deli	Sep-96	Jan-02	7	3		43%	Residential, Agricultural, Commerical
95	1031200	Fork United Methodist Church	May-99	Apr-02	4				Residential, Agricultural
96	1031202	Long Green Valley St/ Maple Hill Farm Mk	Sep-97	May-00	2				Residential, Institutional, Commerical, Agricultural
97	1031203	Hereford Volunteer Fire Co	Sep-96	Feb-01	6	4	3	67%	Commercial, Residential, Agricultural, Institutional
98	1031204	John Browns Store	Aug-97	Apr-02	8	1	1	13%	Agricultural, Forested
99	1031207	Maryland State Police Firing Range	Nov-00	Jan-02	4				Forested, Water, Institutional
100	1031210	Independent Order of Oddfellows #22	Apr-99	May-02	5	5		100%	Agricultural, Industrial, Commerical, Forested
101	1031212	Palmisanos of Baldwin	Aug-98	Feb-02	5				Agricultural, Commerical, Residential
102	1031213	Parke Memorial United Methodist Church	Aug-98	Feb-02	5				Residential, Agricultural

Table 4 Summary of Nitrate Data for Transient, Non-Community Public Water Systems

No.	PWSID	PWS Name	Earliest Sample	Most Recent Sample	Number of Samples	Number Exceeding Half MCL	Number Exceeding MCL	Percent Exceeding Half MCL*	LAND USE IN SWAA (In Descending Importance)
103	1031214	Prettyboy Market	Aug-97	Feb-02	7	5		71%	Agricultural, Residential, Commerical, Forested
104	1031215	Valley Wine Shop Inc	Aug-98	Feb-02	4				Agricultural, Residential, Commerical
105	1031218	Salem Um Church	Sep-97	Jan-02	8				Residential, Agricultural, Forested, Commerical
106	1031219	Sanders Corner	Jan-02	Jan-02	1				Forested, Agricultural, Residential
107	1031220	Sheffield Recordings Limited Inc	May-99	Apr-02	15	15	6	100%	Residential, Agricultural, Commerical
108	1031221	Stevenson AME Church	Jul-97	Feb-02	7				Forested, Agricultural, Residential, Commerical
109	1031224	Catonsville Elks Lodge #2323	May-96	Sep-01	2	1	1	50%	Forested, Institutional, Residential, Water
110	1031226	Gunpowder Falls St Pk Sparks Nature Ctr	Apr-98	Jun-02	5				Forested, Residential, Institutional, Water
111	1031227	Original Hawaiian Island Snoball	Sep-96	Apr-02	7				Residential, Agricultural, Commerical, Commerical
112	1031228	Immanuel Episcopal Church	Jun-99	Jul-01	5				Forested, Residential, Institutional, Agricultural
113	1031230	Maryland Line United Methodist Church	Sep-96	Feb-02	8	8		100%	Agricultural, Residential, Commerical
114	1031231	Maryland Line Service Center	Aug-98	Jul-02	4	4		100%	Agricultural, Residential, Commerical
115	1031232	Meadowcroft Exxon	Aug-99	Sep-02	4	3		75%	Commerical, Agricultural, Forested, Institutional/Transportation
116	1031234	Msgr O'Dwyer Retreat House	Mar-97	Apr-02	10	2		20%	Forested, Residential, Agricultural, Institutional
117	1031235	Pats Greenwood Deli	May-99	Oct-02	5	4	3	80%	Agricultural, Residential
118	1031236	Ridge Country Store	May-99	Apr-02	4				Residential, Agricultural, Forested
119	1031237	Rocky Point Golf Course	Aug-96	Mar-02	16	6		38%	Urban (Golf Course)
120	1031241	West Liberty Um Church	Oct-95	Apr-02	7	2	2	29%	Agricultural, Forested, Residential, Institutional
121	1031245	Beachmont Christian Camp	Apr-00	Jun-02	3	3		100%	Agricultural, Forested, Institutional
122	1031248	Gunpowder Youth Camp Kalor	Sep-99	May-01	4				Forested, Institutional
123	1031249	Clynmalira Methodist Church	Aug-98	Feb-02	4				Agricultural, Institutional, Residential
124	1031250	Fork Plaza / Highs / Johnny Ryans	Sep-96	Jan-02	7	6		86%	Residential, Agricultural, Commerical, Institutional
125	1031252	Long Green Church of Brethren	Sep-98	Jan-02	4	2		50%	Agricultural, Residential, Forested, Institutional
126	1031253	Camp Milldale Main Office	Jun-99	May-02	6	3		50%	Institutional, Forested
127	1031255	St Johns Episcopal Church	Jan-99	Jan-02	4	1		25%	Residential, Forested, Agricultural, Institutional
128	1031256	St Johns Lutheran Church	Jun-99	Sep-02	6	5		83%	Residential, Agricultural, Institutional
129	1031259	Paul E Field Jr DDS Pa	Aug-97	Jan-02	6				Forested, Agricultural, Commerical, Residential
130	1031260	Charcoal Grill	Sep-97	Feb-02	7	7	2	100%	Commerical, Residential, Institutional
131	1031263	Fork Christian Church	Jun-99	Feb-02	5				Agricultural, Forested, Residential, Commerical
132	1031264	Genesee Valley Learning Center	Sep-98	Feb-02	8	7		88%	Agricultural, Forested, Residential, Commerical/Institutional
133	1031265	Lassahn Funeral Home	Aug-98	Feb-02	6	6	2	100%	Agricultural, Residential, Commerical
134	1031266	Dons Place	Jul-99	Jul-02	6	3		50%	Agricultural, Residential, Commerical, Forested
135	1031273	Gunpowder Falls St Pk Camp Cone	Apr-98	Apr-01	4				Forested, Residential, Agricultural, Institutional
136	1031274	Gunpowder Falls St Pk Camp Wood	Apr-98	Jun-02	4				Forested, Institutional
137	1031275	Gunpowder Falls St Pk Days Cove	May-99	Jun-02	4				Urban Land (Open)
138	1031276	Gunpowder Falls St Pk Monkton Train St	Apr-98	Jun-02	4	1		25%	Forested, Residential, Agricultural, Institutional
139	1031278	Cromwell Valley Merrick House	Jun-99	Jan-02	4				Forested, Agricultural, Institutional
140	1031279	Cromwell Valley Sherwood House	Sep-96	Jan-02	5				Agricultural, Forested
141	1031280	Boordy Vineyards	Jul-99	Sep-02	3				Agricultural
142	1031281	Bosley United Methodist Church	Jun-99	Apr-02	5	1		20%	Agricultural, Forested
143	1031283	Catholic Community of St Francis Xavier	May-99	May-02	4	1		25%	Agricultural, Residential, Forested
144	1031284	Covenant of Grace Presbyterian Church	Feb-00	Jan-01	16	16		100%	Residential, Urban Land (Cemetery), Agricultural, Institutional
145	1031285	Creekside Clipper	May-99	Sep-01	3	1		33%	Residential, Forested, Commerical
146	1031286	Freeland Kingdom Hall	Aug-98	Jul-02	10	9		90%	Agricultural, Residential, Forested
147	1031288	Gunpowder Falls St Pk Hart-Miller Island	May-99	May-01	2				N/A
148	1031290	Hasslingers/ St James Church	Feb-99	Jan-03	10	6	5	60%	Agricultural, Forested, Commerical, Institutional
149	1031291	Hayes Construction Co Inc	May-99	Apr-02	5	5		100%	Commerical, Residential, Forested
150	1031292	Hereford Golf Center	Jun-99	Apr-02	4				Agricultural, Commerical, Residential, Transportation/Forested
151	1031293	Hunt Valley Presbyterian Church	May-99	Apr-02	4				Residential, Agricultural, Commerical, Industrial
152	1031294	Immanuel Baptist Church	May-99	Dec-01	3				Agricultural, Institutional
153	1031295	Isaiah Baptist Church	May-99	Apr-02	4	1		25%	Forested, Residential, Institutional

Table 4 Summary of Nitrate Data for Transient, Non-Community Public Water Systems

No.	PWSID	PWS Name	Earliest Sample	Most Recent Sample	Number of Samples	Number Exceeding Half MCL	Number Exceeding MCL	Percent Exceeding Half MCL*	LAND USE IN SWAA (In Descending Importance)
154	1031296	Jacksonville Church of God	May-99	Sep-02	4	1		25%	Residential, Agricultural, Institutional
155	1031298	Jehovahs Witness Kingdom Hall	Jun-99	Oct-02	7				N/A
156	1031299	Knights of Columbus	May-99	Jan-02	4				Forested, Agricultural
157	1031300	Long Green Baptist Church	May-99	Apr-02	4				Residential, Agricultural
158	1031301	McInnes & Barron DDS, Pa	May-99	Sep-02	4	4		100%	Commercial, Residential, Agricultural, Forested
159	1031302	Mt Carmel Animal Hospital	May-99	Sep-02	6	6		100%	Commercial, Residential, Agricultural, Forested
160	1031303	Mt Vista Golf Course	May-99	Feb-02	6				Urban Land (Golf Course), Residential, Forested
161	1031305	New Antioch Baptist Church	Jun-99	Apr-02	4				Residential, Agricultural, Institutional
162	1031306	Peters Body Shop Inc	May-99	Apr-02	5				Agricultural, Residential, Forested, Commerical
163	1031307	Randallstown Animal Hospital	May-99	Feb-02	6	4	1	67%	Residential, Commercial, Agricultural
164	1031308	Reisterstown Veterinary Center	Aug-99	Jul-02	5	3		60%	Agricultural, Forested, Commerical
165	1031309	Ritzmanns Country Store	Aug-96	Jul-02	7	2		29%	Agricultural, Forested, Residential
166	1031310	Smoots Collision Center	May-99	Apr-02	6				Agricultural, Residential, Forested, Commerical
167	1031311	Spring Meadow Farms / Smokers Catering	Aug-99	Apr-02	8	8		100%	Agricultural, Commerical, Residential
168	1031313	St Stephens Episcopal Church	Oct-99	Sep-02	3				Residential, Forested, Urban Land (Golf Course), Institutional
169	1031317	Simonds Nursery	Aug-99	Jul-02	4				Agricultural, Residential, Commerical
170	1031318	Ballestone Mansion	Feb-00	Aug-02	7				Urban (Golf Course)
171	1031320	Funky Monkey Café	May-99	Apr-02	6	6		100%	Commercial, Residential, Agricultural, Institutional
172	1031321	Highs	Aug-98	Aug-00	4				Agricultural, Residential, Commerical
173	1031322	Monkton Hotel Professional Bldg	Aug-99	Apr-02	5				Agricultural, Forested, Residential, Institutional
174	1031323	Royal Farm Store	Aug-99	Feb-02	4	3	1	75%	Commercial, Residential
175	1031324	St Marys Orthodox Church	May-00	Apr-02	3	2		67%	Agricultural, Institutional
176	1031325	Caesars Empire	Dec-97	Mar-02	4				Commercial, Forested
177	1031326	Summer Hill Club	May-99	May-02	5	5		100%	Residential, Forested, Institutional
178	1031327	Twin Oaks Carryout & General Store	May-99	Jan-02	6				Agricultural, Residential
179	1031328	Long & Fosters	Aug-98	Apr-02	7	7	1	100%	Commercial, Residential
180	1031329	Gunpowder Falls Freeland Ncr Trail	Jun-00	Jun-02	3	1	1	33%	Agricultural, Forested, Residential
181	1031330	Cedar Grove United Methodist Church	Feb-01	Feb-02	2				Agricultural, Residential
182	1031331	Camp Milldale Pearlstone Retreat	Apr-01	Apr-01	7				Institutional, Forested, Agricultural
183	1031332	Papa Johns Pizza	Sep-98	Jul-02	3	3		100%	Commercial, Residential
184	1031333	Prices Groceries & Spirits	Apr-00	Apr-02	5				Residential, Agricultural, Commerical
185	1031334	Pulaski Flea Market/Winners Corner Cafe	Sep-99	Feb-02	4				Industrial, Forested
186	1031335	Camp Milldale Junior Camp	Jun-00	May-02	3				Institutional, Forested
187	1031336	Camp Milldale Sports Arena	May-99	May-02	4				Institutional, Forested
188	1031337	Camp Milldale Pool Area	May-99	May-02	4	3		75%	Institutional, Forested
189	1031339	Morris Meadows West Side Campground	May-00	Feb-02	3				Forested, Institutional, Agricultural, Residential
190	1031340	Morris Meadows Camp Site B-5	Aug-99	Feb-02	7	4		57%	Forested, Institutional
191	1031341	Morris Meadows Pool/Snack Bar	Mar-01	Feb-02	2	1		50%	Institutional, Forested
192	1031342	Morris Meadows Tennis Courts	Feb-02	Feb-02	1				Forested, Institutional
193	1031343	Morris Meadows Over The Hill Campsites	May-00	Feb-02	3				Forested, Institutional
194	1031344	Morris Meadows Lower Laundry	May-00	Feb-02	3	1		33%	Forested, Institutional
195	1031345	Hereford Seafood	May-00	Apr-02	4	4		100%	Commercial, Residential, Agricultural, Institutional
196	1031346	Fork Citgo	Sep-00	Jul-02	3				Agricultural, Residential, Commerical, Forested
197	1031348	Morris Meadows - Maintenance Shed	Mar-01	Feb-02	2	2		100%	Institutional, Forested, Agricultural
198	1031350	St Pauls Lutheran Church	Apr-00	Feb-02	3				Agricultural, Residential
199	1031351	Sparks Full Service Station	Jan-02	Jan-02	1				Agricultural, Residential, Forested, Commercial
200	1031352	Figaro's	Dec-01	Jan-03	3	3		100%	Agricultural, Residential, Forested, Commercial
Systems Sampled					200	55%	13%	53% in > 10% of samples	

* Values greater than 10% shown in Bold Font

Table 5 Nitrate Data Exceeding One-Half the Regulatory Limit for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Contaminant	Regulatory Level (mg/L)	Date	Result (mg/L)
1030014	Forest Baptist Child Development Center	Nitrate	10	28-Jan-93	7.2
1030014	Forest Baptist Child Development Center	Nitrate	10	13-Sep-93	7.85
1030014	Forest Baptist Child Development Center	Nitrate	10	19-Oct-93	5.22
1030014	Forest Baptist Child Development Center	Nitrate	10	16-Feb-94	6.33
1030014	Forest Baptist Child Development Center	Nitrate	10	20-Jun-94	6.22
1030014	Forest Baptist Child Development Center	Nitrate	10	9-Aug-94	5.35
1030014	Forest Baptist Child Development Center	Nitrate	10	30-Jan-95	8.69
1030014	Forest Baptist Child Development Center	Nitrate	10	16-May-95	8.48
1030014	Forest Baptist Child Development Center	Nitrate	10	23-Aug-95	7.45
1030014	Forest Baptist Child Development Center	Nitrate	10	14-Nov-95	9.66
1030014	Forest Baptist Child Development Center	Nitrate	10	23-Jan-96	7.6
1030014	Forest Baptist Child Development Center	Nitrate	10	27-Feb-96	5.41
1030014	Forest Baptist Child Development Center	Nitrate	10	12-Nov-96	5.15
1030014	Forest Baptist Child Development Center	Nitrate	10	20-Jan-98	7.83
1030014	Forest Baptist Child Development Center	Nitrate	10	12-Aug-98	6.86
1030014	Forest Baptist Child Development Center	Nitrate	10	27-Oct-98	6.07
1030014	Forest Baptist Child Development Center	Nitrate	10	25-Jan-99	7.4
1030014	Forest Baptist Child Development Center	Nitrate	10	16-Feb-00	5.7
1030014	Forest Baptist Child Development Center	Nitrate	10	12-Jan-01	5.5
1030014	Forest Baptist Child Development Center	Nitrate	10	3-May-01	5.6
1030014	Forest Baptist Child Development Center	Nitrate	10	9-Jan-02	7.2
1030014	Forest Baptist Child Development Center	Nitrate	10	9-Jan-02	7.2
1030014	Forest Baptist Child Development Center	Nitrate	10	3-May-02	5.6
1030014	Forest Baptist Child Development Center	Nitrate	10	17-May-02	7.2
1030014	Forest Baptist Child Development Center	Nitrate	10	17-May-02	7.2
1030014	Forest Baptist Child Development Center	Nitrate	10	31-Jul-02	6.3
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	5-Sep-96	6.52
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	3-Sep-97	6.64
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	26-Aug-98	6.33
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	12-May-99	6.3
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	23-Aug-99	6.3
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	3-May-00	5.3
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	14-Jun-00	6.6
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	15-Feb-01	5.9
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	20-Sep-01	6.7
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	13-Feb-02	6
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	13-Feb-02	6
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	17-Sep-02	6.9
1030019	Hereford Plaza (Michaels Pizza/ Highs)	Nitrate	10	17-Sep-02	6.9
1030064	Peerces Plantation	Nitrate	10	19-Jan-98	5.4
1030074	Baltimore County Greystone Golf Course	Nitrate	10	28-May-97	8.8
1030079	Suburban Propane	Nitrate	10	1-May-02	8.4
1031001	Albanstown Inn	Nitrate	10	12-Aug-98	14.3
1031001	Albanstown Inn	Nitrate	10	20-Jul-99	11.5
1031001	Albanstown Inn	Nitrate	10	2-May-00	11.8
1031001	Albanstown Inn	Nitrate	10	12-Jan-01	11
1031001	Albanstown Inn	Nitrate	10	18-Jan-02	11.7
1031001	Albanstown Inn	Nitrate	10	18-Jan-02	11.7
1031003	Arcadia Volunteer Fire Co	Nitrate	10	20-Sep-96	5.28
1031007	Baltimore County Baptist Church	Nitrate	10	26-Aug-98	7.57
1031007	Baltimore County Baptist Church	Nitrate	10	9-Sep-99	8.8
1031007	Baltimore County Baptist Church	Nitrate	10	26-Apr-00	7.3
1031007	Baltimore County Baptist Church	Nitrate	10	12-Jan-01	7.3
1031007	Baltimore County Baptist Church	Nitrate	10	27-Feb-02	8.1
1031012	Boring Vol Fire Dept	Nitrate	10	4-Aug-97	6.1

Table 5 Nitrate Data Exceeding One-Half the Regulatory Limit for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Contaminant	Regulatory Level (mg/L)	Date	Result (mg/L)
1031012	Boring Vol Fire Dept	Nitrate	10	20-Aug-98	5.8
1031012	Boring Vol Fire Dept	Nitrate	10	2-Aug-99	7.2
1031012	Boring Vol Fire Dept	Nitrate	10	8-Aug-01	5.3
1031012	Boring Vol Fire Dept	Nitrate	10	8-Aug-01	5.3
1031012	Boring Vol Fire Dept	Nitrate	10	31-Jul-02	6.9
1031012	Boring Vol Fire Dept	Nitrate	10	31-Jul-02	6.9
1031017	Butler Volunteer Fire Co	Nitrate	10	9-Apr-01	5.5
1031022	Cherrys Inn	Nitrate	10	20-Jul-99	6.3
1031022	Cherrys Inn	Nitrate	10	27-Jul-00	5.6
1031022	Cherrys Inn	Nitrate	10	8-Nov-01	5.7
1031022	Cherrys Inn	Nitrate	10	20-Feb-02	6.1
1031031	Deer Park United Methodist Church	Nitrate	10	6-Aug-98	8.97
1031031	Deer Park United Methodist Church	Nitrate	10	7-Mar-01	6.3
1031031	Deer Park United Methodist Church	Nitrate	10	27-Feb-02	7.9
1031039	Eklo Inn	Nitrate	10	5-Sep-96	9.11
1031039	Eklo Inn	Nitrate	10	27-Aug-97	9.96
1031039	Eklo Inn	Nitrate	10	25-Aug-99	9.5
1031039	Eklo Inn	Nitrate	10	1-May-00	9.5
1031039	Eklo Inn	Nitrate	10	7-Mar-01	8.9
1031039	Eklo Inn	Nitrate	10	20-Feb-02	10.1
1031040	Elmos Luncheonette	Nitrate	10	26-Aug-98	10.3
1031040	Elmos Luncheonette	Nitrate	10	9-Sep-99	11.9
1031040	Elmos Luncheonette	Nitrate	10	20-Oct-99	11.5
1031040	Elmos Luncheonette	Nitrate	10	16-Apr-01	11.7
1031040	Elmos Luncheonette	Nitrate	10	16-Apr-01	11.4
1031040	Elmos Luncheonette	Nitrate	10	19-Apr-01	10.6
1031040	Elmos Luncheonette	Nitrate	10	23-Jul-01	12.2
1031040	Elmos Luncheonette	Nitrate	10	3-Apr-02	9.97
1031046	North Star	Nitrate	10	8-Nov-01	6
1031066	Hereford Assembly of God	Nitrate	10	26-Aug-98	13.6
1031066	Hereford Assembly of God	Nitrate	10	2-Jun-99	5.3
1031066	Hereford Assembly of God	Nitrate	10	23-Aug-99	6.4
1031066	Hereford Assembly of God	Nitrate	10	1-Sep-99	15.1
1031066	Hereford Assembly of God	Nitrate	10	1-May-00	11.8
1031066	Hereford Assembly of God	Nitrate	10	13-Mar-01	15.9
1031066	Hereford Assembly of God	Nitrate	10	13-Mar-01	15.9
1031066	Hereford Assembly of God	Nitrate	10	20-Feb-02	16.1
1031067	Hereford United Methodist Church	Nitrate	10	23-Aug-98	7.27
1031067	Hereford United Methodist Church	Nitrate	10	23-Aug-99	6.4
1031067	Hereford United Methodist Church	Nitrate	10	3-May-00	6.4
1031067	Hereford United Methodist Church	Nitrate	10	12-Jan-01	5.7
1031067	Hereford United Methodist Church	Nitrate	10	15-Feb-01	5.5
1031067	Hereford United Methodist Church	Nitrate	10	15-Feb-01	5.5
1031067	Hereford United Methodist Church	Nitrate	10	24-Jan-02	6
1031067	Hereford United Methodist Church	Nitrate	10	13-Feb-02	5.9
1031068	Highs	Nitrate	10	21-Aug-97	9.14
1031068	Highs	Nitrate	10	26-Aug-98	8.39
1031068	Highs	Nitrate	10	28-Aug-98	8.39
1031068	Highs	Nitrate	10	9-Sep-99	9.9
1031068	Highs	Nitrate	10	9-Sep-99	9.9
1031068	Highs	Nitrate	10	3-May-00	9.4
1031068	Highs	Nitrate	10	12-Jan-01	7.8
1031068	Highs	Nitrate	10	27-Feb-02	9.3
1031070	Colonial Inn	Nitrate	10	26-Aug-98	7.71
1031070	Colonial Inn	Nitrate	10	9-Sep-99	9.6

Table 5 Nitrate Data Exceeding One-Half the Regulatory Limit for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Contaminant	Regulatory Level (mg/L)	Date	Result (mg/L)
1031070	Colonial Inn	Nitrate	10	3-May-00	8.1
1031070	Colonial Inn	Nitrate	10	12-Jan-01	7.9
1031070	Colonial Inn	Nitrate	10	27-Feb-02	8.4
1031074	Jacksonville Exxon	Nitrate	10	26-Apr-00	7.7
1031074	Jacksonville Exxon	Nitrate	10	5-Sep-01	9
1031085	Kingsville Volunteer Fire Co	Nitrate	10	24-Aug-98	5.84
1031085	Kingsville Volunteer Fire Co	Nitrate	10	20-Aug-99	5.3
1031085	Kingsville Volunteer Fire Co	Nitrate	10	26-Apr-00	6
1031085	Kingsville Volunteer Fire Co	Nitrate	10	14-Mar-01	5.6
1031085	Kingsville Volunteer Fire Co	Nitrate	10	12-Feb-02	5.7
1031087	Lees Tavern	Nitrate	10	5-Sep-96	6.45
1031087	Lees Tavern	Nitrate	10	26-Aug-98	6.76
1031087	Lees Tavern	Nitrate	10	23-Aug-99	5.1
1031087	Lees Tavern	Nitrate	10	1-May-00	11.8
1031087	Lees Tavern	Nitrate	10	7-Mar-01	7.2
1031087	Lees Tavern	Nitrate	10	13-Feb-02	5.8
1031090	Little Falls Tavern	Nitrate	10	30-Sep-02	6.5
1031098	Long Green Volunteer Fire Co	Nitrate	10	26-Jul-01	8.3
1031103	Manor Tavern Inc	Nitrate	10	2-Aug-99	6.2
1031106	Maryland Line Inn	Nitrate	10	8-Apr-96	5.6
1031106	Maryland Line Inn	Nitrate	10	13-Dec-00	7.06
1031106	Maryland Line Inn	Nitrate	10	14-Sep-01	6.13
1031106	Maryland Line Inn	Nitrate	10	28-Nov-01	7.49
1031106	Maryland Line Inn	Nitrate	10	30-Oct-02	11
1031106	Maryland Line Inn	Nitrate	10	30-Oct-02	11
1031106	Maryland Line Inn	Nitrate	10	4-Nov-02	11.8
1031106	Maryland Line Inn	Nitrate	10	4-Nov-02	11.8
1031108	Maryland Line Vol Fire Co	Nitrate	10	5-Sep-96	15.8
1031108	Maryland Line Vol Fire Co	Nitrate	10	17-Feb-97	15
1031108	Maryland Line Vol Fire Co	Nitrate	10	16-Feb-98	8.53
1031108	Maryland Line Vol Fire Co	Nitrate	10	23-Aug-99	24.4
1031116	Reisterstown Moose Lodge #1577	Nitrate	10	16-Jul-99	6.3
1031117	Morris Meadows Recreation Farm Inc	Nitrate	10	25-Aug-99	6.7
1031117	Morris Meadows Recreation Farm Inc	Nitrate	10	25-Aug-99	5.6
1031117	Morris Meadows Recreation Farm Inc	Nitrate	10	1-May-00	6
1031117	Morris Meadows Recreation Farm Inc	Nitrate	10	13-Mar-01	7
1031117	Morris Meadows Recreation Farm Inc	Nitrate	10	13-Mar-01	7
1031117	Morris Meadows Recreation Farm Inc	Nitrate	10	13-Mar-01	6.3
1031117	Morris Meadows Recreation Farm Inc	Nitrate	10	13-Feb-02	6.5
1031117	Morris Meadows Recreation Farm Inc	Nitrate	10	13-Feb-02	6.5
1031117	Morris Meadows Recreation Farm Inc	Nitrate	10	13-Feb-02	6.6
1031118	Mount Carmel United Methodist Church	Nitrate	10	2-Jun-99	5.6
1031120	Oregon Ridge Park Nature Center	Nitrate	10	19-Aug-99	6.4
1031129	Papermill Recreation Center	Nitrate	10	30-Jan-01	6.6
1031129	Papermill Recreation Center	Nitrate	10	8-Jan-02	8.9
1031133	Pioneer House	Nitrate	10	4-Aug-99	7.2
1031133	Pioneer House	Nitrate	10	12-Jul-00	5.7
1031133	Pioneer House	Nitrate	10	24-Jul-02	9.3
1031133	Pioneer House	Nitrate	10	24-Jul-02	9.3
1031134	Pleasant Grove United Methodist Church	Nitrate	10	1-Jun-99	6.5
1031134	Pleasant Grove United Methodist Church	Nitrate	10	11-Oct-99	5.3
1031134	Pleasant Grove United Methodist Church	Nitrate	10	8-Nov-01	5.77
1031134	Pleasant Grove United Methodist Church	Nitrate	10	8-Nov-02	5.77
1031135	Pleasant Hill Chapel	Nitrate	10	20-May-99	5.3
1031135	Pleasant Hill Chapel	Nitrate	10	17-Apr-01	5.1

Table 5 Nitrate Data Exceeding One-Half the Regulatory Limit for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Contaminant	Regulatory Level (mg/L)	Date	Result (mg/L)
1031135	Pleasant Hill Chapel	Nitrate	10	2-Apr-02	7.2
1031140	Redeemer Lutheran Church	Nitrate	10	26-Aug-98	6.42
1031140	Redeemer Lutheran Church	Nitrate	10	23-Aug-99	7.1
1031140	Redeemer Lutheran Church	Nitrate	10	1-May-00	6.8
1031140	Redeemer Lutheran Church	Nitrate	10	7-Mar-01	6.2
1031140	Redeemer Lutheran Church	Nitrate	10	13-Feb-02	6.5
1031141	American Legion #116 Reisterstown	Nitrate	10	13-Aug-98	6.65
1031141	American Legion #116 Reisterstown	Nitrate	10	11-Jul-99	6.4
1031141	American Legion #116 Reisterstown	Nitrate	10	3-May-00	5.9
1031141	American Legion #116 Reisterstown	Nitrate	10	26-Jan-01	5.7
1031141	American Legion #116 Reisterstown	Nitrate	10	27-Feb-02	6.3
1031145	Rocky Point Beach	Nitrate	10	23-Jul-97	7.8
1031145	Rocky Point Beach	Nitrate	10	4-Aug-98	7.93
1031146	Roma Carry Out	Nitrate	10	30-Jul-96	5.8
1031146	Roma Carry Out	Nitrate	10	4-Aug-99	8
1031146	Roma Carry Out	Nitrate	10	18-Sep-00	6.5
1031146	Roma Carry Out	Nitrate	10	18-Sep-00	6.5
1031146	Roma Carry Out	Nitrate	10	10-Jul-01	6.3
1031146	Roma Carry Out	Nitrate	10	29-Jul-02	6.7
1031146	Roma Carry Out	Nitrate	10	29-Jul-02	6.7
1031153	Sportsmans Hall Roller Rink	Nitrate	10	20-Jan-99	13.5
1031153	Sportsmans Hall Roller Rink	Nitrate	10	20-Dec-99	9.9
1031153	Sportsmans Hall Roller Rink	Nitrate	10	17-Feb-00	12.7
1031153	Sportsmans Hall Roller Rink	Nitrate	10	1-Jun-00	11
1031153	Sportsmans Hall Roller Rink	Nitrate	10	20-Feb-01	10.1
1031153	Sportsmans Hall Roller Rink	Nitrate	10	24-Jan-02	14.6
1031157	St Johns Episcopal Church	Nitrate	10	4-Jan-00	8.6
1031157	St Johns Episcopal Church	Nitrate	10	4-Apr-00	8.1
1031157	St Johns Episcopal Church	Nitrate	10	11-Jul-00	8.5
1031157	St Johns Episcopal Church	Nitrate	10	11-Jul-00	8.5
1031157	St Johns Episcopal Church	Nitrate	10	6-Oct-00	8.3
1031158	St Paul United Brethren Church in Christ	Nitrate	10	28-Jun-99	6.2
1031158	St Paul United Brethren Church in Christ	Nitrate	10	14-Jun-00	9
1031158	St Paul United Brethren Church in Christ	Nitrate	10	13-Sep-01	5.6
1031158	St Paul United Brethren Church in Christ	Nitrate	10	9-Aug-02	8
1031158	St Paul United Brethren Church in Christ	Nitrate	10	17-Sep-02	9.4
1031160	St Alphonus Rodriguez Church	Nitrate	10	2-Oct-02	5.6
1031163	Thompsons Food Market	Nitrate	10	5-Sep-96	7.4
1031163	Thompsons Food Market	Nitrate	10	26-Aug-98	15.6
1031163	Thompsons Food Market	Nitrate	10	7-Mar-01	17.3
1031163	Thompsons Food Market	Nitrate	10	13-Feb-02	15.5
1031170	Wagon Wheel Restaurant	Nitrate	10	5-Sep-96	9.4
1031170	Wagon Wheel Restaurant	Nitrate	10	27-Aug-97	8.6
1031170	Wagon Wheel Restaurant	Nitrate	10	2-Sep-98	9.27
1031170	Wagon Wheel Restaurant	Nitrate	10	23-Aug-99	7
1031170	Wagon Wheel Restaurant	Nitrate	10	1-May-00	7
1031170	Wagon Wheel Restaurant	Nitrate	10	7-Mar-01	6.3
1031170	Wagon Wheel Restaurant	Nitrate	10	13-Feb-02	6.4
1031171	Wards Chapel UMC / Preschool	Nitrate	10	13-Jan-98	8.1
1031171	Wards Chapel UMC / Preschool	Nitrate	10	1-Mar-99	12.6
1031171	Wards Chapel UMC / Preschool	Nitrate	10	6-May-99	16.1
1031171	Wards Chapel UMC / Preschool	Nitrate	10	20-Jul-99	19.8
1031171	Wards Chapel UMC / Preschool	Nitrate	10	10-Jul-00	22.5
1031171	Wards Chapel UMC / Preschool	Nitrate	10	8-Apr-02	26.9
1031173	West Liberty Carryout	Nitrate	10	8-Oct-99	8.3

Table 5 Nitrate Data Exceeding One-Half the Regulatory Limit for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Contaminant	Regulatory Level (mg/L)	Date	Result (mg/L)
1031173	West Liberty Carryout	Nitrate	10	16-Aug-00	8.5
1031176	Woodensburg Country Store	Nitrate	10	12-Jan-01	6.9
1031176	Woodensburg Country Store	Nitrate	10	14-Mar-02	7.5
1031178	Worthington Valley Country Club	Nitrate	10	6-Jul-99	5.6
1031178	Worthington Valley Country Club	Nitrate	10	31-May-02	7
1031179	Worthington Valley Swim Club	Nitrate	10	7-May-97	5.7
1031179	Worthington Valley Swim Club	Nitrate	10	10-May-99	6.1
1031179	Worthington Valley Swim Club	Nitrate	10	11-May-00	6.6
1031179	Worthington Valley Swim Club	Nitrate	10	6-Jun-01	7.1
1031179	Worthington Valley Swim Club	Nitrate	10	31-May-02	7
1031184	Four Corners Amoco	Nitrate	10	12-Jan-99	6.3
1031184	Four Corners Amoco	Nitrate	10	11-Jan-01	5.3
1031184	Four Corners Amoco	Nitrate	10	23-Jan-02	7
1031186	Camp Puh'Tok / Nature Camps	Nitrate	10	20-Jul-99	14.7
1031188	Chestnut Ridge Farm Market	Nitrate	10	22-Jul-99	7.7
1031188	Chestnut Ridge Farm Market	Nitrate	10	4-Jan-00	10
1031188	Chestnut Ridge Farm Market	Nitrate	10	3-Apr-00	9.4
1031188	Chestnut Ridge Farm Market	Nitrate	10	7-Jul-00	9.4
1031188	Chestnut Ridge Farm Market	Nitrate	10	2-Oct-00	10
1031188	Chestnut Ridge Farm Market	Nitrate	10	6-Oct-00	10
1031188	Chestnut Ridge Farm Market	Nitrate	10	4-Jan-01	12
1031188	Chestnut Ridge Farm Market	Nitrate	10	5-Apr-01	10
1031188	Chestnut Ridge Farm Market	Nitrate	10	9-Aug-02	8
1031188	Chestnut Ridge Farm Market	Nitrate	10	9-Aug-02	8
1031188	Chestnut Ridge Farm Market	Nitrate	10	2-Dec-02	7.6
1031191	Club 3960 Inc	Nitrate	10	20-Sep-01	6.7
1031197	Piney Branch Country Club	Nitrate	10	26-Aug-98	5.85
1031197	Piney Branch Country Club	Nitrate	10	9-Sep-99	6.3
1031197	Piney Branch Country Club	Nitrate	10	3-May-00	5.6
1031197	Piney Branch Country Club	Nitrate	10	12-Jan-01	5.4
1031197	Piney Branch Country Club	Nitrate	10	27-Feb-02	5.8
1031199	Fork Deli	Nitrate	10	13-Sep-96	6.15
1031199	Fork Deli	Nitrate	10	28-Aug-97	5.14
1031199	Fork Deli	Nitrate	10	18-Aug-98	5.98
1031203	Hereford Volunteer Fire Co	Nitrate	10	5-Sep-96	12
1031203	Hereford Volunteer Fire Co	Nitrate	10	26-Aug-98	12.8
1031203	Hereford Volunteer Fire Co	Nitrate	10	23-Aug-99	10.1
1031203	Hereford Volunteer Fire Co	Nitrate	10	15-Feb-01	9.4
1031204	John Browns Store	Nitrate	10	18-Aug-99	12.1
1031210	Independent Order of Oddfellows #22	Nitrate	10	30-Apr-99	5.2
1031210	Independent Order of Oddfellows #22	Nitrate	10	30-Apr-99	5.2
1031210	Independent Order of Oddfellows #22	Nitrate	10	13-Jun-00	6.2
1031210	Independent Order of Oddfellows #22	Nitrate	10	17-May-01	6.6
1031210	Independent Order of Oddfellows #22	Nitrate	10	9-May-02	7.5
1031214	Prettyboy Market	Nitrate	10	27-Aug-97	6.12
1031214	Prettyboy Market	Nitrate	10	2-Sep-98	6.75
1031214	Prettyboy Market	Nitrate	10	25-Aug-99	5.7
1031214	Prettyboy Market	Nitrate	10	25-Aug-99	5.7
1031214	Prettyboy Market	Nitrate	10	20-Feb-02	5.3
1031220	Sheffield Recordings Limited Inc	Nitrate	10	4-May-99	10.3
1031220	Sheffield Recordings Limited Inc	Nitrate	10	12-May-99	9.6
1031220	Sheffield Recordings Limited Inc	Nitrate	10	12-May-99	9.6
1031220	Sheffield Recordings Limited Inc	Nitrate	10	6-Jul-99	9.5
1031220	Sheffield Recordings Limited Inc	Nitrate	10	2-Nov-99	8.8
1031220	Sheffield Recordings Limited Inc	Nitrate	10	2-Nov-99	8.8

Table 5 Nitrate Data Exceeding One-Half the Regulatory Limit for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Contaminant	Regulatory Level (mg/L)	Date	Result (mg/L)
1031220	Sheffield Recordings Limited Inc	Nitrate	10	18-Jan-00	9.9
1031220	Sheffield Recordings Limited Inc	Nitrate	10	18-Jan-00	9.9
1031220	Sheffield Recordings Limited Inc	Nitrate	10	10-May-00	7.9
1031220	Sheffield Recordings Limited Inc	Nitrate	10	12-Jul-00	10.4
1031220	Sheffield Recordings Limited Inc	Nitrate	10	10-Oct-00	11
1031220	Sheffield Recordings Limited Inc	Nitrate	10	30-Jan-01	11.4
1031220	Sheffield Recordings Limited Inc	Nitrate	10	30-Jan-01	11.4
1031220	Sheffield Recordings Limited Inc	Nitrate	10	17-Apr-01	9.1
1031220	Sheffield Recordings Limited Inc	Nitrate	10	11-Apr-02	11.3
1031224	Catonsville Elks Lodge #2323	Nitrate	10	1-May-96	10.2
1031230	Maryland Line United Methodist Church	Nitrate	10	5-Sep-96	9.18
1031230	Maryland Line United Methodist Church	Nitrate	10	27-Aug-97	8.42
1031230	Maryland Line United Methodist Church	Nitrate	10	26-Aug-98	8.62
1031230	Maryland Line United Methodist Church	Nitrate	10	23-Aug-99	9.4
1031230	Maryland Line United Methodist Church	Nitrate	10	23-Aug-99	9.7
1031230	Maryland Line United Methodist Church	Nitrate	10	1-May-00	9.1
1031230	Maryland Line United Methodist Church	Nitrate	10	7-Mar-01	8.2
1031230	Maryland Line United Methodist Church	Nitrate	10	13-Feb-02	8.3
1031231	Maryland Line Service Center	Nitrate	10	18-Aug-98	7
1031231	Maryland Line Service Center	Nitrate	10	8-Aug-00	9.1
1031231	Maryland Line Service Center	Nitrate	10	19-Jul-01	8.9
1031231	Maryland Line Service Center	Nitrate	10	18-Jul-02	9.8
1031232	Meadowcroft Exxon	Nitrate	10	3-Aug-99	7.4
1031232	Meadowcroft Exxon	Nitrate	10	14-Jun-00	5.2
1031232	Meadowcroft Exxon	Nitrate	10	20-Sep-01	8.4
1031234	Msgr O'Dwyer Retreat House	Nitrate	10	24-Jun-97	6.6
1031234	Msgr O'Dwyer Retreat House	Nitrate	10	23-Jan-02	7
1031235	Pats Greenwood Deli	Nitrate	10	11-Oct-00	8.5
1031235	Pats Greenwood Deli	Nitrate	10	13-Nov-01	10.8
1031235	Pats Greenwood Deli	Nitrate	10	22-Oct-02	10.2
1031235	Pats Greenwood Deli	Nitrate	10	22-Oct-02	10.2
1031237	Rocky Point Golf Course	Nitrate	10	28-Aug-96	7.32
1031237	Rocky Point Golf Course	Nitrate	10	2-May-00	6.9
1031237	Rocky Point Golf Course	Nitrate	10	2-May-00	6.9
1031237	Rocky Point Golf Course	Nitrate	10	19-Jan-01	7.6
1031237	Rocky Point Golf Course	Nitrate	10	14-Feb-02	7.5
1031237	Rocky Point Golf Course	Nitrate	10	14-Mar-02	7.5
1031241	West Liberty Um Church	Nitrate	10	16-Oct-95	13.1
1031241	West Liberty Um Church	Nitrate	10	9-Sep-96	10.7
1031245	Beachmont Christian Camp	Nitrate	10	12-Apr-00	8.2
1031245	Beachmont Christian Camp	Nitrate	10	12-Apr-01	8
1031245	Beachmont Christian Camp	Nitrate	10	14-Jun-02	7.9
1031250	Fork Plaza / Highs / Johnny Ryans	Nitrate	10	13-Sep-96	9.98
1031250	Fork Plaza / Highs / Johnny Ryans	Nitrate	10	18-Aug-98	6.87
1031250	Fork Plaza / Highs / Johnny Ryans	Nitrate	10	26-Jul-99	8
1031250	Fork Plaza / Highs / Johnny Ryans	Nitrate	10	26-Jul-99	8
1031250	Fork Plaza / Highs / Johnny Ryans	Nitrate	10	18-Jan-01	5.6
1031250	Fork Plaza / Highs / Johnny Ryans	Nitrate	10	16-Jan-02	6.5
1031252	Long Green Church of Brethren	Nitrate	10	16-Sep-98	6.43
1031252	Long Green Church of Brethren	Nitrate	10	10-Sep-99	5.2
1031253	Camp Milldale Main Office	Nitrate	10	9-Jun-99	7.4
1031253	Camp Milldale Main Office	Nitrate	10	9-May-01	8.2
1031253	Camp Milldale Main Office	Nitrate	10	6-May-02	6.8
1031255	St Johns Episcopal Church	Nitrate	10	29-Jan-01	6.8
1031256	St Johns Lutheran Church	Nitrate	10	7-Jun-99	6.1

Table 5 Nitrate Data Exceeding One-Half the Regulatory Limit for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Contaminant	Regulatory Level (mg/L)	Date	Result (mg/L)
1031256	St Johns Lutheran Church	Nitrate	10	5-Jun-00	5.6
1031256	St Johns Lutheran Church	Nitrate	10	13-Sep-01	6.1
1031256	St Johns Lutheran Church	Nitrate	10	19-Sep-02	7
1031256	St Johns Lutheran Church	Nitrate	10	19-Sep-02	7
1031260	Charcoal Grill	Nitrate	10	18-Sep-97	7.98
1031260	Charcoal Grill	Nitrate	10	5-Aug-98	6.18
1031260	Charcoal Grill	Nitrate	10	25-Aug-99	12.7
1031260	Charcoal Grill	Nitrate	10	25-Aug-99	12.7
1031260	Charcoal Grill	Nitrate	10	3-May-00	6
1031260	Charcoal Grill	Nitrate	10	7-Feb-01	8.9
1031260	Charcoal Grill	Nitrate	10	15-Feb-02	6.7
1031264	Genesee Valley Learning Center	Nitrate	10	2-Sep-98	6.81
1031264	Genesee Valley Learning Center	Nitrate	10	2-Sep-98	9.16
1031264	Genesee Valley Learning Center	Nitrate	10	25-Aug-99	6.2
1031264	Genesee Valley Learning Center	Nitrate	10	1-May-00	5.6
1031264	Genesee Valley Learning Center	Nitrate	10	7-Mar-01	5.7
1031264	Genesee Valley Learning Center	Nitrate	10	1-May-01	5.6
1031264	Genesee Valley Learning Center	Nitrate	10	20-Feb-02	6.2
1031265	Lassahn Funeral Home	Nitrate	10	24-Aug-98	9.55
1031265	Lassahn Funeral Home	Nitrate	10	20-Aug-99	10.8
1031265	Lassahn Funeral Home	Nitrate	10	20-Aug-99	10.8
1031265	Lassahn Funeral Home	Nitrate	10	26-Apr-00	6.4
1031265	Lassahn Funeral Home	Nitrate	10	14-Mar-01	7.2
1031265	Lassahn Funeral Home	Nitrate	10	12-Feb-02	7.1
1031266	Dons Place	Nitrate	10	12-Jul-99	5.5
1031266	Dons Place	Nitrate	10	18-Jul-02	5.2
1031266	Dons Place	Nitrate	10	18-Jul-02	5.2
1031276	Gunpowder Falls St Pk Monkton Train St	Nitrate	10	20-Jun-02	5.5
1031281	Bosley United Methodist Church	Nitrate	10	9-Apr-01	5.5
1031283	Catholic Community of St Francis Xavier	Nitrate	10	2-May-02	9.1
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	3-Feb-00	10
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	11-Apr-00	10
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	11-Apr-00	9.06
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	21-Jul-00	9.09
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	9-Oct-00	9.08
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	16-Jan-01	10
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	26-Jan-01	6.72
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	19-Apr-01	7.37
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	24-Aug-01	8.21
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	17-Jan-02	7.89
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	11-Apr-02	8.19
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	27-Aug-02	8.64
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	27-Aug-02	8.64
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	7-Oct-02	7.59
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	7-Oct-02	7.59
1031284	Covenant of Grace Presbyterian Church	Nitrate	10	1-Jan-01	6.72
1031285	Creekside Clipper	Nitrate	10	20-May-99	5.2
1031286	Freeland Kingdom Hall	Nitrate	10	26-Aug-98	6.95
1031286	Freeland Kingdom Hall	Nitrate	10	25-Aug-99	6.5
1031286	Freeland Kingdom Hall	Nitrate	10	8-Feb-00	6.6
1031286	Freeland Kingdom Hall	Nitrate	10	27-Apr-00	6.2
1031286	Freeland Kingdom Hall	Nitrate	10	9-Apr-01	6.8
1031286	Freeland Kingdom Hall	Nitrate	10	8-Feb-02	6.6
1031286	Freeland Kingdom Hall	Nitrate	10	4-Apr-02	8.6
1031286	Freeland Kingdom Hall	Nitrate	10	27-Apr-02	6.2

Table 5 Nitrate Data Exceeding One-Half the Regulatory Limit for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Contaminant	Regulatory Level (mg/L)	Date	Result (mg/L)
1031286	Freeland Kingdom Hall	Nitrate	10	11-Jul-02	6.3
1031290	Hasslingers/ St James Church	Nitrate	10	18-Feb-99	14
1031290	Hasslingers/ St James Church	Nitrate	10	12-Apr-00	13.1
1031290	Hasslingers/ St James Church	Nitrate	10	24-Jan-01	12.3
1031290	Hasslingers/ St James Church	Nitrate	10	15-Jan-02	11.5
1031290	Hasslingers/ St James Church	Nitrate	10	4-Apr-02	9.3
1031290	Hasslingers/ St James Church	Nitrate	10	8-Jan-03	12.3
1031291	Hayes Construction Co Inc	Nitrate	10	10-May-99	5.8
1031291	Hayes Construction Co Inc	Nitrate	10	15-May-00	6.9
1031291	Hayes Construction Co Inc	Nitrate	10	15-May-00	6.9
1031291	Hayes Construction Co Inc	Nitrate	10	17-Apr-01	7
1031291	Hayes Construction Co Inc	Nitrate	10	10-Apr-02	7.8
1031295	Isaiah Baptist Church	Nitrate	10	3-May-01	6.1
1031296	Jacksonville Church of God	Nitrate	10	19-Jun-00	7.2
1031301	McInnes & Barron DDS	Nitrate	10	12-May-99	7.6
1031301	McInnes & Barron DDS	Nitrate	10	20-Sep-01	9.6
1031301	McInnes & Barron DDS	Nitrate	10	17-Sep-02	9.6
1031301	McInnes & Barron DDS	Nitrate	10	17-Sep-02	9.6
1031302	Mt Carmel Animal Hospital	Nitrate	10	12-May-99	8.4
1031302	Mt Carmel Animal Hospital	Nitrate	10	14-Jun-00	9
1031302	Mt Carmel Animal Hospital	Nitrate	10	14-Jun-00	9
1031302	Mt Carmel Animal Hospital	Nitrate	10	20-Sep-01	7
1031302	Mt Carmel Animal Hospital	Nitrate	10	17-Sep-02	8.1
1031302	Mt Carmel Animal Hospital	Nitrate	10	20-Sep-02	8.1
1031307	Randallstown Animal Hospital	Nitrate	10	11-May-99	10.2
1031307	Randallstown Animal Hospital	Nitrate	10	7-Jul-99	10
1031307	Randallstown Animal Hospital	Nitrate	10	17-Jan-02	6.4
1031307	Randallstown Animal Hospital	Nitrate	10	13-Feb-02	6.5
1031308	Reisterstown Veterinary Center	Nitrate	10	24-Aug-99	6.3
1031308	Reisterstown Veterinary Center	Nitrate	10	9-Jul-02	6.9
1031308	Reisterstown Veterinary Center	Nitrate	10	9-Jul-02	6.9
1031309	May's General Store	Nitrate	10	25-Jul-02	8.2
1031309	May's General Store	Nitrate	10	25-Jul-02	8.2
1031311	Spring Meadow Farms / Smokers Catering	Nitrate	10	5-Aug-99	6.4
1031311	Spring Meadow Farms / Smokers Catering	Nitrate	10	15-Aug-99	6.4
1031311	Spring Meadow Farms / Smokers Catering	Nitrate	10	28-Sep-99	6
1031311	Spring Meadow Farms / Smokers Catering	Nitrate	10	28-Sep-99	6
1031311	Spring Meadow Farms / Smokers Catering	Nitrate	10	3-May-00	5.9
1031311	Spring Meadow Farms / Smokers Catering	Nitrate	10	16-May-01	6.7
1031311	Spring Meadow Farms / Smokers Catering	Nitrate	10	23-Apr-02	6.5
1031311	Spring Meadow Farms / Smokers Catering	Nitrate	10	25-Apr-02	6.5
1031320	Funky Monkey Café	Nitrate	10	12-May-99	8.9
1031320	Funky Monkey Café	Nitrate	10	12-May-99	8.9
1031320	Funky Monkey Café	Nitrate	10	12-Apr-00	7.2
1031320	Funky Monkey Café	Nitrate	10	11-Apr-01	7
1031320	Funky Monkey Café	Nitrate	10	9-Apr-02	9.9
1031320	Funky Monkey Café	Nitrate	10	9-Apr-02	9.9
1031323	Royal Farm Store	Nitrate	10	20-Aug-99	10.2
1031323	Royal Farm Store	Nitrate	10	3-May-00	6.2
1031323	Royal Farm Store	Nitrate	10	12-Feb-02	8.6
1031324	St Marys Orthodox Church	Nitrate	10	19-May-00	5.2
1031324	St Marys Orthodox Church	Nitrate	10	13-Apr-01	5.3
1031326	Summer Hill Club	Nitrate	10	4-May-99	9.3
1031326	Summer Hill Club	Nitrate	10	31-Jul-00	8.8
1031326	Summer Hill Club	Nitrate	10	31-Jul-00	8.8

Table 5 Nitrate Data Exceeding One-Half the Regulatory Limit for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Contaminant	Regulatory Level (mg/L)	Date	Result (mg/L)
1031326	Summer Hill Club	Nitrate	10	14-May-01	8.3
1031326	Summer Hill Club	Nitrate	10	1-May-02	8.4
1031328	Long & Fosters	Nitrate	10	24-Aug-98	9.6
1031328	Long & Fosters	Nitrate	10	20-Aug-99	9.1
1031328	Long & Fosters	Nitrate	10	3-May-00	8.2
1031328	Long & Fosters	Nitrate	10	15-Feb-01	9.4
1031328	Long & Fosters	Nitrate	10	5-Jun-01	9.3
1031328	Long & Fosters	Nitrate	10	12-Feb-02	10.7
1031328	Long & Fosters	Nitrate	10	17-Apr-02	8.1
1031329	Gunpowder Falls Freeland NCR Trail	Nitrate	10	20-Jun-02	12.3
1031332	Papa Johns Pizza	Nitrate	10	16-Sep-98	8.5
1031332	Papa Johns Pizza	Nitrate	10	19-Jul-01	9.2
1031332	Papa Johns Pizza	Nitrate	10	21-Jul-02	9.2
1031337	Camp Milldale Pool Area	Nitrate	10	7-Jun-00	5.5
1031337	Camp Milldale Pool Area	Nitrate	10	9-May-01	6.9
1031337	Camp Milldale Pool Area	Nitrate	10	6-May-02	9.9
1031340	Morris Meadows Camp Site B-5	Nitrate	10	13-Mar-01	7
1031340	Morris Meadows Camp Site B-5	Nitrate	10	31-Jul-01	7
1031340	Morris Meadows Camp Site B-5	Nitrate	10	13-Feb-02	6.6
1031340	Morris Meadows Camp Site B-5	Nitrate	10	13-Feb-02	6.6
1031341	Morris Meadows Pool/Snack Bar	Nitrate	10	1-Feb-02	6.5
1031344	Morris Meadows Lower Laundry	Nitrate	10	13-Feb-02	6.5
1031345	Hereford Seafood	Nitrate	10	16-May-00	7.7
1031345	Hereford Seafood	Nitrate	10	17-May-00	7.7
1031345	Hereford Seafood	Nitrate	10	11-Apr-01	6.9
1031345	Hereford Seafood	Nitrate	10	9-Apr-02	9.4
1031348	Morris Meadows - Maintenance Shed	Nitrate	10	13-Mar-01	7
1031348	Morris Meadows - Maintenance Shed	Nitrate	10	13-Feb-02	6.5
1031352	Figaro's	Nitrate	10	12-Dec-01	9.9
1031352	Figaro's	Nitrate	10	12-Mar-02	9.4
1031352	Figaro's	Nitrate	10	8-Jan-03	9.5

Table 6 Summary of Coliform Bacteria Data for Transient, Non-Community Public Water Systems

No.	PWSID	PWS Name	Earliest Sample	Most Recent Sample	Number of Samples	Positive Samples Total Coliform	Positive Samples Fecal Coliform	Percent Total Coliform Positive*
1	1030014	Forest Baptist Child Development Center	May-01	Oct-02	8			
2	1030019	Hereford Plaza (Michaels Pizza/ Highs)	May-96	Nov-02	43			
3	1030064	Peerces Plantation	Jan-96	Jan-01	37	10		27%
4	1030074	Baltimore County Greystone Golf Course	May-97	Oct-02	21	3		14%
5	1030079	Suburban Propane	Mar-00	Dec-02	16			
6	1031001	Albanstown Inn	Feb-96	Oct-02	25			
7	1031002	American Legion #256 Parkton	Jun-99	Nov-02	19			
8	1031003	Arcadia Volunteer Fire Co	May-96	Jun-02	26			
9	1031007	Baltimore County Baptist Church	Mar-96	Oct-02	28			
10	1031012	Boring Vol Fire Dept	Jan-96	Oct-02	33	1		3%
11	1031016	Butler Store & Liquors	May-98	Dec-02	19			
12	1031017	Butler Volunteer Fire Co	May-99	Oct-02	18			
13	1031022	Cherys Inn	Jul-99	Nov-02	9			
14	1031024	Chestnut Grove Presbyterian Church	May-97	Nov-02	20			
15	1031029	Countryside Carryout	Feb-96	Oct-02	27			
16	1031031	Deer Park United Methodist Church	Mar-96	Aug-02	19			
17	1031032	Dew Drop Inn & Beef Pit	Mar-96	Nov-02	36	1		3%
18	1031039	Eklo Inn	Sep-96	Nov-02	25			
19	1031040	Elmos Luncheonette	May-96	Oct-02	41	2		5%
20	1031043	Parkton Exxon	Aug-98	Nov-02	19	3		16%
21	1031044	Farmer Johns	Jun-96	May-02	20			
22	1031046	North Star	Aug-98	Sep-02	16	7		44%
23	1031047	First Baptist Church of Hereford	May-99	Oct-02	16			
24	1031055	Congregation Rosh Pina	Mar-96	Nov-02	27			
25	1031056	Kingsville Tavern	Feb-96	Nov-02	25			
26	1031057	Grace United Methodist Church	Jan-96	Nov-02	22	1		5%
27	1031059	Granite Presbyterian Church	Mar-96	Oct-02	22			
28	1031061	Gray & Sons Inc	Feb-96	Nov-02	22			
29	1031062	Green Valley Swim Club	Apr-97	Jul-02	11			
30	1031064	Gunpowder Baptist Church	Feb-96	Nov-02	45			
31	1031066	Hereford Assembly of God	Mar-96	Oct-02	23			
32	1031067	Hereford United Methodist Church	Jan-97	Nov-02	27			
33	1031068	Highs	May-96	Oct-02	24			
34	1031070	Colonial Inn	Feb-96	Oct-02	28			
35	1031072	Island View Waterfront Café (Formerly Island View Inn)	Mar-96	Nov-02	20			
36	1031074	Jacksonville Exxon	Apr-99	Oct-02	19	4		21%
37	1031078	Jacksonville Volunteer Fire Co	Jun-99	Nov-02	16			
38	1031080	Kings Court Motel	Feb-96	Nov-02	31	1		3%
39	1031082	Kingsville Athletic Field House	Jun-97	Nov-02	18			
40	1031083	Kingsville Food Rite	Feb-96	Nov-02	26			
41	1031085	Kingsville Volunteer Fire Co	Feb-96	Nov-02	25			
42	1031086	Lakeview Swim Club	Jan-96	Oct-02	18	4		22%
43	1031087	Lees Tavern	Feb-96	Nov-02	30			
44	1031089	Liberty Reformed Presbyterian Church	Jun-99	Nov-02	19			
45	1031090	Little Falls Tavern	May-96	Nov-02	17			
46	1031093	Loch Raven Fishing Center	Mar-96	Aug-02	14			
47	1031094	Loch Raven Skeet & Trap Club	Jun-99	Jul-02	16			
48	1031095	Timber Creek Tavern	May-98	Oct-02	19			
49	1031098	Long Green Volunteer Fire Co	Mar-96	Dec-02	29	5		17%
50	1031103	Manor Tavern Inc	Mar-96	Dec-02	49	10		20%
51	1031106	Maryland Line Inn	Jan-96	Oct-02	33	7		21%
52	1031108	Maryland Line Vol Fire Co	Feb-96	Nov-02	27			
53	1031112	Midway Inn / Midway Liquors	Jun-99	Nov-02	16			
54	1031114	Milton Inn	Apr-98	Oct-02	18			
55	1031115	Lee's Valley Gourmet (Formerly Mr Charles Market Place)	Apr-97	Oct-02	28	3		11%
56	1031116	Reisterstown Moose Lodge #1577	Mar-96	Nov-02	43	7		16%
57	1031117	Morris Meadows Recreation Farm Inc	Feb-96	Feb-02	100			
58	1031118	Mount Carmel United Methodist Church	May-96	Oct-02	28			
59	1031120	Oregon Ridge Park Nature Center	Mar-96	Nov-02	55	5		9%
60	1031121	Oregon Ridge Park Lodge	Jun-96	Nov-02	23			
61	1031123	Oregon Ridge Park Beach	Jun-99	Aug-02	9			
62	1031126	Park Inn	Jan-96	Oct-02	28	2		7%
63	1031129	Papermill Recreation Center	Mar-96	Nov-02	35			
64	1031133	Pioneer House	Jan-96	Oct-02	54	14		26%
65	1031134	Pleasant Grove United Methodist Church	Jun-99	Dec-02	14			
66	1031135	Pleasant Hill Chapel	May-99	Dec-02	24	2	1	8%
67	1031140	Redeemer Lutheran Church	Feb-98	Nov-02	21			
68	1031141	American Legion #116 Reisterstown	Mar-96	Oct-02	32			
69	1031144	Rileys Marina	Mar-96	Aug-02	19			
70	1031145	Rocky Point Beach	Jun-96	Aug-02	29			
71	1031146	Roma Carry Out	Jan-96	Oct-02	24			
72	1031153	Sportsmans Hall Roller Rink	Apr-98	Oct-02	30	8		27%

Table 6 Summary of Coliform Bacteria Data for Transient, Non-Community Public Water Systems

No.	PWSID	PWS Name	Earliest Sample	Most Recent Sample	Number of Samples	Positive Samples Total Coliform	Positive Samples Fecal Coliform	Percent Total Coliform Positive*
73	1031157	St Johns Episcopal Church	May-99	Oct-02	26	8		31%
74	1031158	St Paul United Brethren Church in Christ	Jun-99	Nov-02	17			
75	1031159	St Peters Lutheran	Oct-99	Dec-02	17			
76	1031160	St Alphonsus Rodriguez Church	Aug-98	Oct-02	18			
77	1031163	Thompsons Food Market	Feb-96	Aug-02	31	5		16%
78	1031168	Valley Inn	Mar-96	Nov-02	29			
79	1031170	Wagon Wheel Restaurant	Feb-96	Nov-02	27			
80	1031171	Wards Chapel United Methodist Church / Preschool	Jan-98	Oct-02	16			
81	1031173	West Liberty Carryout	Oct-99	Jan-02	8	2		25%
82	1031176	Woodensburg Country Store	Mar-00	Oct-02	13			
83	1031178	Worthington Valley Country Club	Oct-96	Aug-02	28			
84	1031179	Worthington Valley Swim Club	May-97	Jul-02	26	7		27%
85	1031184	Four Corners Amoco	Mar-96	Oct-02	23			
86	1031185	Camp Holiday	Jun-99	Sep-02	16			
87	1031186	Camp Puh'Tok / Nature Camps	Feb-96	Jul-02	46	4		9%
88	1031188	Chestnut Ridge Farm Market	Jul-99	Dec-02	14	3		21%
89	1031189	Chestnut Ridge VFD	Mar-96	Nov-02	26			
90	1031191	Club 3960 Inc	Mar-96	Nov-02	19			
91	1031196	Cutters Marina	Mar-96	Nov-02	23			
92	1031197	Piney Branch Country Club	Jan-98	Aug-02	20			
93	1031198	Fairview United Methodist Church	Aug-98	Jul-02	10			
94	1031199	Fork Deli	Jun-96	Oct-02	30			
95	1031200	Fork United Methodist Church	May-99	Oct-02	16			
96	1031202	Long Green Valley St/ Maple Hill Farm Mk	Sep-97	Nov-00	5			
97	1031203	Hereford Volunteer Fire Co	Mar-96	Nov-02	26			
98	1031204	John Browns Store	Feb-96	May-02	27	1		4%
99	1031207	Maryland State Police Firing Range	Jun-99	Oct-02	32	6		19%
100	1031210	Independent Order of Oddfellows #22	Apr-99	Aug-02	17	3		18%
101	1031212	Palmisanos of Baldwin	Mar-96	Nov-02	23			
102	1031213	Parke Memorial United Methodist Church	Feb-96	Nov-02	26			
103	1031214	Prettyboy Market	Feb-96	Nov-02	29			
104	1031215	Valley Wine Shop Inc	Mar-96	Nov-02	23			
105	1031218	Salem United Methodist Church	Mar-96	Aug-02	27			
106	1031219	Sanders Corner	Oct-01	Jul-02	4			
107	1031220	Sheffield Recordings Limited Inc	May-99	Oct-02	17			
108	1031221	Stevenson AME Church	Mar-96	Oct-02	41	7		17%
109	1031224	Catonsville Elks Lodge #2323	Dec-00	Jan-02	3			
110	1031226	Gunpowder Falls St Pk Sparks Nature Ctr	Apr-98	Dec-02	12			
111	1031227	Original Hawaiian Island Snoball	Apr-96	Aug-02	15			
112	1031228	Immanuel Episcopal Church	Jun-99	Dec-02	14			
113	1031230	Maryland Line United Methodist Church	Feb-96	Nov-02	29			
114	1031231	Maryland Line Service Center	Aug-98	Oct-02	25	7		28%
115	1031232	Meadowcroft Exxon	Aug-99	Nov-02	16			
116	1031234	Msgr O'Dwyer Retreat House	Mar-97	Oct-02	33			
117	1031235	Pats Greenwood Deli	May-99	Oct-02	10			
118	1031236	Ridge Country Store	May-99	Oct-02	16			
119	1031237	Rocky Point Golf Course	Mar-96	Nov-02	52			
120	1031241	West Liberty United Methodist Church	Oct-97	Oct-02	16			
121	1031245	Beachmont Christian Camp	Dec-00	Jun-02	5			
122	1031248	Gunpowder Youth Camp Kalor	Apr-99	May-01	8	3		38%
123	1031249	Clynmalira Methodist Church	Mar-96	Nov-02	15			
124	1031250	Fork Plaza / Highs / Johnny Ryans	Feb-96	Oct-02	24			
125	1031252	Long Green Church of Brethren	Mar-96	Oct-02	24			
126	1031253	Camp Milldale Main Office	May-99	May-02	12			
127	1031255	St Johns Episcopal Church	Jan-99	Oct-02	15			
128	1031256	St Johns Lutheran Church	Jun-99	Dec-02	17			
129	1031259	Paul E Field Jr DDS Pa	Mar-96	Oct-02	29			
130	1031260	Charcoal Grill	Jan-96	Nov-02	35			
131	1031263	Fork Christian Church	Jun-99	Nov-02	16			
132	1031264	Genesee Valley Learning Center	Mar-96	Nov-02	33			
133	1031265	Lassahn Funeral Home	Feb-96	Nov-02	25			
134	1031266	Dons Place	Jul-99	Oct-02	14			
135	1031273	Gunpowder Falls St Pk Camp Cone	Apr-98	Dec-02	10			
136	1031274	Gunpowder Falls St Pk Camp Wood	Apr-98	Sep-02	9			
137	1031275	Gunpowder Falls St Pk Days Cove	May-99	Dec-02	11			
138	1031276	Gunpowder Falls St Pk Monkton Train St	Apr-98	Dec-02	12			
139	1031278	Cromwell Valley Merrick House	Jun-99	Jan-02	10			
140	1031279	Cromwell Valley Sherwood House	Sep-96	Oct-02	22	1		5%
141	1031280	Boordy Vineyards	Jul-99	Dec-02	16	2		13%
142	1031281	Bosley United Methodist Church	Jun-99	Oct-02	37	8		22%
143	1031283	Catholic Community of St Francis Xavier	May-99	Nov-02	14			
144	1031284	Covenant of Grace Presbyterian Church	Apr-99	Oct-02	17			

Table 6 Summary of Coliform Bacteria Data for Transient, Non-Community Public Water Systems

No.	PWSID	PWS Name	Earliest Sample	Most Recent Sample	Number of Samples	Positive Samples Total Coliform	Positive Samples Fecal Coliform	Percent Total Coliform Positive*
145	1031285	Creekside Clipper	May-99	Nov-02	35	18	2	51%
146	1031286	Freeland Kingdom Hall	Feb-96	Oct-02	28	1		4%
147	1031288	Gunpowder Falls St Pk Hart-Miller Island	May-99	Jul-01	10	5		50%
148	1031290	Hasslingers/ St James Church	Feb-99	Oct-02	17			
149	1031291	Hayes Construction Co Inc	Mar-99	Oct-02	17			
150	1031292	Hereford Golf Center	Mar-99	Oct-02	24	2		8%
151	1031293	Hunt Valley Presbyterian Church	May-99	Oct-02	21	2		10%
152	1031294	Immanuel Baptist Church	May-99	Jun-02	7			
153	1031295	Isaiah Baptist Church	May-99	Nov-02	14			
154	1031296	Jacksonville Church of God	May-99	Dec-02	15			
155	1031298	Jehovahs Witness Kingdom Hall	Jun-99	Oct-02	19			
156	1031299	Knights of Columbus	May-99	Oct-02	22	4		18%
157	1031300	Long Green Baptist Church	May-99	Oct-02	18			
158	1031301	McInnes & Barron DDS, Pa	May-99	Nov-02	27	13		48%
159	1031302	Mt Carmel Animal Hospital	May-99	Nov-02	21	9		43%
160	1031303	Mt Vista Golf Course	May-99	Oct-02	31	5		16%
161	1031305	New Antioch Baptist Church	Jun-99	Oct-02	20	5		25%
162	1031306	Peters Body Shop Inc	May-99	Oct-02	16			
163	1031307	Randallstown Animal Hospital	May-99	Oct-02	17			
164	1031308	Reisterstown Veterinary Center	Aug-99	Oct-02	14			
165	1031309	May's General Store (Formerly Ritzmann's Country Store)	Jan-96	Oct-02	45	9		20%
166	1031310	Smoots Collision Center	May-99	Oct-02	67	21	1	31%
167	1031311	Spring Meadow Farms / Smokers Catering	Mar-99	Aug-02	17			
168	1031313	St Stephens Episcopal Church	Sep-00	Dec-02	10			
169	1031317	Simonds Nursery	Aug-99	Oct-02	14			
170	1031318	Ballegstone Mansion	Feb-00	Nov-02	15			
171	1031320	Funky Monkey Café (Formerly Greys Bagel Shop)	Aug-98	Oct-02	36	6		17%
172	1031321	Highs	Mar-96	Aug-00	28	6		21%
173	1031322	Monkton Hotel Professional Bldg	Aug-99	Aug-02	9			
174	1031323	Royal Farm Store	Dec-97	Aug-02	20			
175	1031324	St Marys Orthodox Church	Oct-98	Oct-02	40	20		50%
176	1031325	Caesars Empire	Dec-97	Nov-02	12			
177	1031326	Summer Hill Club	May-99	Jul-02	9			
178	1031327	Twin Oaks Carryout & General Store	May-99	May-02	16			
179	1031328	Long & Fosters (Formerly Coldwell Banker / Grempler Realty)	Dec-97	Nov-02	53	18		34%
180	1031329	Gunpowder Falls Freeland Ncr Trail	Jun-00	Dec-02	9			
181	1031330	Cedar Grove United Methodist Church	Aug-00	Nov-02	10			
182	1031331	Camp Milldale Pearlstone Retreat	Dec-00	Aug-02	28			
183	1031332	Papa Johns Pizza	Sep-98	Oct-02	42	4		10%
184	1031333	Prices Groceries & Spirits	Aug-99	Oct-02	27	9		33%
185	1031334	Pulaski Flea Market/Winners Corner Cafe	Feb-98	Nov-02	19			
186	1031335	Camp Milldale Junior Camp	Jun-00	Aug-02	18	5		28%
187	1031336	Camp Milldale Sports Arena	May-99	May-02	12	4		33%
188	1031337	Camp Milldale Pool Area	May-99	May-02	9	1		11%
189	1031339	Morris Meadows West Side Campground	Feb-00	Aug-02	13			
190	1031340	Morris Meadows Camp Site B-5	Aug-99	Aug-02	16			
191	1031341	Morris Meadows Pool/Snack Bar	Feb-98	Aug-02	13			
192	1031342	Morris Meadows Tennis Courts	May-01	Feb-02	2			
193	1031343	Morris Meadows Over The Hill Campsites	Feb-98	Aug-02	13			
194	1031344	Morris Meadows Lower Laundry	Feb-98	Aug-02	13			
195	1031345	Hereford Seafood (Formerly Bay Gourmet)	May-00	Oct-02	11	2		18%
196	1031346	Fork Citgo	Sep-00	Oct-02	17	1		6%
197	1031348	Morris Meadows - Maintenance Shed	Feb-00	Aug-02	12			
198	1031350	St Pauls Lutheran Church	Jan-98	Oct-02	19			
199	1031351	Sparks Full Service Station	Sep-01	Oct-02	6			
200	1031352	Figaro's	Jan-01	Oct-02	8			
Systems Sampled					200	30%	2%	22% in > 10% of samples

* Values greater than 10% shown in Bold Font

Table 7 Positive Coliform Data for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Date	Sample ID	Total Coliform Positive	Fecal Coliform Positive	E. Coli Positive
1030064	Peerces Plantation	22-Apr-97	97-0000	Y	N	N
1030064	Peerces Plantation	23-Apr-97	97-1009	Y	N	N
1030064	Peerces Plantation	23-Apr-97	97-1010	Y	N	N
1030064	Peerces Plantation	23-Apr-97	97-1011	Y	N	N
1030064	Peerces Plantation	23-Apr-97	97-1012	Y	N	N
1030064	Peerces Plantation	24-Jan-00	249	Y	N	N
1030064	Peerces Plantation	27-Jan-00	275	Y	N	
1030064	Peerces Plantation	28-Jan-00	302	Y	N	N
1030064	Peerces Plantation	28-Jan-00	304	Y	N	N
1030064	Peerces Plantation	24-Aug-00	64	Y	N	N
1030074	Baltimore County Greystone Golf Course	28-May-97	Pressure Tank Main Bldg	Y		N
1030074	Baltimore County Greystone Golf Course	28-May-97	Pressure Tank Main Bldg	Y		N
1030074	Baltimore County Greystone Golf Course	28-May-97	Pressure Tank Main Bldg	Y		N
1031012	Boring Vol Fire Dept	20-Jan-99	Tri-Sink in Kitchen	Y		N
1031032	Dew Drop Inn & Beef Pit	17-Jan-01	117	Y	N	N
1031040	Elmos Luncheonette	19-Oct-00	1019	Y	N	N
1031040	Elmos Luncheonette	6-Dec-00	1206	Y	N	N
1031043	Parkton Exxon	12-Aug-02	Sink	Y		
1031043	Parkton Exxon	27-Aug-02	Sink	Y		N
1031043	Parkton Exxon	17-Sep-02	Sink	Y		N
1031046	North Star	21-Aug-98	Kitchen Sink	Y		
1031046	North Star	24-Aug-98	Ladies Room	Y		
1031046	North Star	24-Aug-98	Mens Room	Y		
1031046	North Star	28-Aug-02	Kitchen Sink	Y		
1031046	North Star	28-Aug-02		Y	N	N
1031046	North Star	17-Sep-02	Kitchen Sink	Y		
1031046	North Star	17-Sep-02		Y	N	N
1031057	Grace United Methodist Church	10-Jun-02	Mens Room	Y		N
1031074	Jacksonville Exxon	6-Nov-00	1106	Y	N	N
1031074	Jacksonville Exxon	10-Nov-00	1110	Y	N	N
1031074	Jacksonville Exxon	8-Oct-02	Office Bathroom	Y		
1031074	Jacksonville Exxon	8-Oct-02		Y		
1031080	Kings Court Motel	24-Aug-98	Kitchen	Y		N
1031086	Lakeview Swim Club	31-Jan-96	Kitchen Tap	Y	N	
1031086	Lakeview Swim Club	31-Jan-96	Kitchen Tap	Y	N	
1031086	Lakeview Swim Club	31-Jan-96	Kitchen Tap	Y	N	
1031086	Lakeview Swim Club	31-Jan-96	Kitchen Tap	Y	N	
1031098	Long Green Volunteer Fire Co	25-Oct-02	Sink	Y		N
1031098	Long Green Volunteer Fire Co	25-Oct-02		Y		N
1031098	Long Green Volunteer Fire Co	3-Dec-02		Y		N
1031098	Long Green Volunteer Fire Co	26-Dec-02	Pressure Tank	Y		
1031098	Long Green Volunteer Fire Co	26-Dec-02		Y		N
1031103	Manor Tavern Inc	29-May-96	Hand Sink	Y		
1031103	Manor Tavern Inc	4-Jun-96	Bar Sink	Y		
1031103	Manor Tavern Inc	4-Jun-96	Hand Sink	Y		
1031103	Manor Tavern Inc	4-Jun-96	Hand Sink	Y		
1031103	Manor Tavern Inc	4-Jun-96	Kitchen Sink	Y		
1031103	Manor Tavern Inc	16-Feb-98	Hand Sink	Y		
1031103	Manor Tavern Inc	18-Jun-98	Kitchen Sink	Y		
1031103	Manor Tavern Inc	4-Sep-02	Na	Y	N	
1031103	Manor Tavern Inc	9-Sep-02	Na	Y	N	
1031103	Manor Tavern Inc	27-Sep-02	Na	Y	N	
1031106	Maryland Line Inn	30-Jan-96	Ladies Room	Y	N	
1031106	Maryland Line Inn	30-Jan-96		Y		N
1031106	Maryland Line Inn	5-Feb-96	Uu-531	Y	N	
1031106	Maryland Line Inn	6-Mar-96	Kitchen Sink	Y	N	
1031106	Maryland Line Inn	6-Mar-96		Y		N
1031106	Maryland Line Inn	15-Apr-96		Y		N
1031106	Maryland Line Inn	4-Apr-97	Sink	Y	N	
1031115	Lee's Valley Gourmet	29-Sep-99	Basin Tap	Y		N

Table 7 Positive Coliform Data for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Date	Sample ID	Total Coliform Positive	Fecal Coliform Positive	E. Coli Positive
1031115	Lee's Valley Gourmet	2-Jun-00	1115A	Y	N	
1031115	Lee's Valley Gourmet	2-Jun-00	1115C	Y	N	
1031116	Reisterstown Moose Lodge #1577	6-Oct-00	106	Y	N	N
1031116	Reisterstown Moose Lodge #1577	12-Oct-00	1012	Y	N	N
1031116	Reisterstown Moose Lodge #1577	12-Oct-00	101200	Y	N	N
1031116	Reisterstown Moose Lodge #1577	12-Oct-00	101212	Y	N	N
1031116	Reisterstown Moose Lodge #1577	12-Oct-00	10120000	Y	N	N
1031116	Reisterstown Moose Lodge #1577	1-Nov-00	1101	Y	N	N
1031116	Reisterstown Moose Lodge #1577	4-Sep-01	904	Y	N	N
1031120	Oregon Ridge Park Nature Center	11-Aug-00	1120-3	Y	N	
1031120	Oregon Ridge Park Nature Center	17-Aug-00	1120-11	Y	N	
1031120	Oregon Ridge Park Nature Center	17-Aug-00	1120-12	Y	N	
1031120	Oregon Ridge Park Nature Center	17-Aug-00	1120-14	Y	N	
1031120	Oregon Ridge Park Nature Center	17-Aug-00	1120-2	Y	N	
1031126	Park Inn	11-Nov-96	Bar Sink	Y		Y
1031126	Park Inn	13-Nov-96	Ladies Room	Y		N
1031133	Pioneer House	19-Apr-96	Hand Sink	Y		N
1031133	Pioneer House	11-Nov-96	Kitchen Tap	Y		N
1031133	Pioneer House	13-Nov-96	Back Room	Y		N
1031133	Pioneer House	13-Nov-96	Bar Sink	Y		N
1031133	Pioneer House	13-Nov-96	Bar Sink	Y		N
1031133	Pioneer House	13-Nov-96	Kitchen Tap	Y		N
1031133	Pioneer House	5-Mar-97	Hand Sink	Y		N
1031133	Pioneer House	15-May-97	Utility Sink	Y		N
1031133	Pioneer House	30-Jun-97	Be-246	Y	N	
1031133	Pioneer House	21-Jul-98	Valve	Y		N
1031133	Pioneer House	12-Jul-00	Sink	Y		N
1031133	Pioneer House	12-Jul-00		Y	N	N
1031133	Pioneer House	24-Jul-02	Sink	Y		N
1031133	Pioneer House	24-Jul-02		Y	N	N
1031135	Pleasant Hill Chapel	3-Oct-02	Ladies Room	Y		N
1031135	Pleasant Hill Chapel	3-Oct-02		Y	Y	Y
1031153	Sportsmans Hall Roller Rink	22-Sep-99	Kitchen Sink	Y		N
1031153	Sportsmans Hall Roller Rink	22-Sep-99		Y	N	N
1031153	Sportsmans Hall Roller Rink	23-Sep-99	Kitchen Sink	Y		N
1031153	Sportsmans Hall Roller Rink	23-Sep-99	Ladies Room	Y		N
1031153	Sportsmans Hall Roller Rink	23-Sep-99	Mens Room	Y		N
1031153	Sportsmans Hall Roller Rink	23-Sep-99	Office Sink	Y		N
1031153	Sportsmans Hall Roller Rink	23-Sep-99		Y	N	N
1031153	Sportsmans Hall Roller Rink	29-Sep-99	Hand Sink	Y		N
1031157	St Johns Episcopal Church	18-Jul-00	11577	Y	N	N
1031157	St Johns Episcopal Church	19-Jul-00	Kitchen Sink	Y		N
1031157	St Johns Episcopal Church	19-Jul-00	Kitchen Sink	Y		N
1031157	St Johns Episcopal Church	19-Jul-00	Ladies Room	Y		N
1031157	St Johns Episcopal Church	19-Jul-00	Mens Room	Y		N
1031157	St Johns Episcopal Church	17-Oct-01	1017	Y	N	N
1031157	St Johns Episcopal Church	17-Jul-02		Y	N	N
1031157	St Johns Episcopal Church	17-Jul-02	Valve	Y		N
1031163	Thompsons Food Market	28-May-96	Kitchen Sink	Y		N
1031163	Thompsons Food Market	3-Jun-96	Bathroom	Y		N
1031163	Thompsons Food Market	3-Jun-96	Hand Sink	Y		N
1031163	Thompsons Food Market	3-Jun-96	Kitchen Sink	Y		N
1031163	Thompsons Food Market	3-Jun-96	Kitchen Sink	Y		N
1031173	West Liberty Carryout	8-Oct-99	Kitchen Sink	Y		N
1031173	West Liberty Carryout	16-Aug-00	1173	Y	N	
1031179	Worthington Valley Swim Club	13-Sep-99	Pump Rm Tap	Y		N
1031179	Worthington Valley Swim Club	6-Jun-01	606	Y	N	N
1031179	Worthington Valley Swim Club	30-Jul-01	730	Y	N	N
1031179	Worthington Valley Swim Club	30-Jul-01	7303	Y	N	N
1031179	Worthington Valley Swim Club	30-Jul-01	73001	Y	N	N

Table 7 Positive Coliform Data for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Date	Sample ID	Total Coliform Positive	Fecal Coliform Positive	E. Coli Positive
1031179	Worthington Valley Swim Club	31-May-02	Kitchen Sink	Y		N
1031179	Worthington Valley Swim Club	31-May-02		Y	N	N
1031186	Camp Puh'Tok / Nature Camps	12-Aug-98	Dining Area	Y		N
1031186	Camp Puh'Tok / Nature Camps	4-Aug-99	Bath Hoouse	Y		N
1031186	Camp Puh'Tok / Nature Camps	4-Aug-99	Hand Pump	Y		N
1031186	Camp Puh'Tok / Nature Camps	4-Aug-99	Kitchen Sink	Y		N
1031188	Chestnut Ridge Farm Market	22-Jul-99	1	Y	N	
1031188	Chestnut Ridge Farm Market	24-Jul-99	Bathroom Sink	Y		
1031188	Chestnut Ridge Farm Market	24-Jul-99	Hosebibi	Y		
1031204	John Browns Store	11-Aug-00	1204	Y	N	
1031207	Maryland State Police Firing Range	14-Sep-99	Kitchen Sink	Y	N	
1031207	Maryland State Police Firing Range	14-Dec-99	Bathroom Sink	Y	N	
1031207	Maryland State Police Firing Range	14-Dec-99	Bathroom Sink	Y	N	
1031207	Maryland State Police Firing Range	14-Dec-99	Kitchen Sink	Y	N	
1031207	Maryland State Police Firing Range	14-Dec-99	Kitchen Sink	Y	N	
1031207	Maryland State Police Firing Range	14-Dec-99	Kitchen Sink	Y	N	
1031210	Independent Order of Oddfellows #22	21-Oct-99	Hand Sink	Y		N
1031210	Independent Order of Oddfellows #22	21-Oct-99	Mens Room	Y		N
1031210	Independent Order of Oddfellows #22	21-Oct-99	Sink	Y		N
1031221	Stevenson AME Church	13-Oct-00	1013	Y	N	N
1031221	Stevenson AME Church	20-Oct-00	1020	Y	N	N
1031221	Stevenson AME Church	20-Oct-00	10201	Y	N	N
1031221	Stevenson AME Church	20-Oct-00	10203	Y	N	N
1031221	Stevenson AME Church	20-Oct-00	102000	Y	N	N
1031221	Stevenson AME Church	2-Nov-00	1102	Y	N	N
1031221	Stevenson AME Church	2-Nov-00	110201	Y	N	N
1031231	Maryland Line Service Center	9-Nov-99	Kitchen Sink	Y		N
1031231	Maryland Line Service Center	9-Nov-99		Y		N
1031231	Maryland Line Service Center	10-Nov-99	Bathroom Sink	Y		N
1031231	Maryland Line Service Center	10-Nov-99	Garage Sink	Y		N
1031231	Maryland Line Service Center	10-Nov-99	Hand Sink	Y		N
1031231	Maryland Line Service Center	10-Nov-99	Kitchen Sink	Y		N
1031231	Maryland Line Service Center	10-Nov-99		Y		N
1031248	Gunpowder Youth Camp Kalor	9-Apr-99	Hand Pump	Y		N
1031248	Gunpowder Youth Camp Kalor	9-Apr-99	Sink	Y		N
1031248	Gunpowder Youth Camp Kalor	9-Sep-99	Hand Pump	Y		N
1031279	Cromwell Valley Sherwood House	19-Sep-96	Office Sink	Y		N
1031280	Boordy Vineyards	20-Sep-01	0920-1	Y	N	N
1031281	Bosley United Methodist Church	28-Sep-00	1281	Y	N	N
1031281	Bosley United Methodist Church	2-Oct-00	1002	Y	N	N
1031281	Bosley United Methodist Church	2-Oct-00	100200	Y	N	N
1031281	Bosley United Methodist Church	2-Oct-00	100201	Y	N	N
1031281	Bosley United Methodist Church	2-Oct-00	100202	Y	N	N
1031281	Bosley United Methodist Church	10-Apr-01	410	Y	N	N
1031281	Bosley United Methodist Church	28-Aug-01	0830-1	Y	N	N
1031281	Bosley United Methodist Church	28-Aug-01	Ladies Room	Y		N
1031285	Creekside Clipper	20-May-99	1	Y	Y	
1031285	Creekside Clipper	25-May-99	4	Y	Y	
1031285	Creekside Clipper	13-Jul-99	Shampoo Tap	Y		Y
1031285	Creekside Clipper	15-Jul-99	Shampoo Tap	Y		Y
1031285	Creekside Clipper	15-Jul-99	Shampoo Tap	Y		Y
1031285	Creekside Clipper	15-Jul-99	Shampoo Tap	Y		Y
1031285	Creekside Clipper	15-Jul-99	Shampoo Tap	Y		Y
1031285	Creekside Clipper	9-Aug-99	Shampoo Tap	Y		N
1031285	Creekside Clipper	17-Dec-99	Sink	Y		N
1031285	Creekside Clipper	9-Mar-01	309	Y	N	Y
1031285	Creekside Clipper	9-Mar-01	0309-1	Y	N	Y
1031285	Creekside Clipper	9-Mar-01	0309-2	Y	N	Y
1031285	Creekside Clipper	9-Mar-01	Sink	Y		Y
1031285	Creekside Clipper	28-Sep-01	928	Y	N	N

Table 7 Positive Coliform Data for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Date	Sample ID	Total Coliform Positive	Fecal Coliform Positive	E. Coli Positive
1031285	Creekside Clipper	14-Feb-02	214	Y	N	N
1031285	Creekside Clipper	16-Oct-02	Sink	Y		N
1031285	Creekside Clipper	16-Oct-02	Sink	Y		N
1031285	Creekside Clipper	16-Oct-02		Y	N	N
1031286	Freeland Kingdom Hall	28-Feb-96	Outside Tap	Y		N
1031288	Gunpowder Falls St Pk Hart-Miller Island	21-May-99	1	Y	N	
1031288	Gunpowder Falls St Pk Hart-Miller Island	25-May-99	1	Y	N	
1031288	Gunpowder Falls St Pk Hart-Miller Island	25-May-99	2	Y	N	
1031288	Gunpowder Falls St Pk Hart-Miller Island	25-May-99	3	Y	N	
1031288	Gunpowder Falls St Pk Hart-Miller Island	25-May-99	4	Y	N	
1031292	Hereford Golf Center	4-Oct-01	1004	Y	N	N
1031292	Hereford Golf Center	6-Nov-01	1106	Y	N	N
1031293	Hunt Valley Presbyterian Church	22-Jan-01	122	Y	N	N
1031293	Hunt Valley Presbyterian Church	24-Jan-01	0124-1	Y	N	N
1031299	Knights of Columbus	2-Sep-99	Kitchen Sink	Y	N	
1031299	Knights of Columbus	8-Sep-99	Bar Tap	Y	N	
1031299	Knights of Columbus	8-Sep-99	Kitchen Sink	Y	N	
1031299	Knights of Columbus	19-Apr-01	419	Y	N	N
1031301	McInnes & Barron DDS	17-Jun-02	Kitchen Sink	Y		N
1031301	McInnes & Barron DDS	17-Jun-02		Y		N
1031301	McInnes & Barron DDS	18-Jun-02	Bathroom Sink	Y		N
1031301	McInnes & Barron DDS	18-Jun-02	Kitchen Sink	Y		N
1031301	McInnes & Barron DDS	18-Jun-02		Y		N
1031301	McInnes & Barron DDS	24-Jun-02	Kitchen Sink	Y		N
1031301	McInnes & Barron DDS	24-Jun-02		Y		N
1031301	McInnes & Barron DDS	16-Jul-02	Front Sink	Y		
1031301	McInnes & Barron DDS	16-Jul-02		Y		
1031301	McInnes & Barron DDS	18-Jul-02	Kitchen Sink	Y		
1031301	McInnes & Barron DDS	18-Jul-02	Kitchen Sink	Y		
1031301	McInnes & Barron DDS	18-Jul-02	Pressure Tank	Y		
1031301	McInnes & Barron DDS	18-Jul-02		Y		
1031302	Mt Carmel Animal Hospital	9-Sep-99	Sink	Y		N
1031302	Mt Carmel Animal Hospital	10-Sep-99	Exam Room 1	Y		N
1031302	Mt Carmel Animal Hospital	10-Sep-99	Exam Room 2	Y		N
1031302	Mt Carmel Animal Hospital	10-Sep-99	Exam Room 3	Y		N
1031302	Mt Carmel Animal Hospital	10-Sep-99	Exam Room 4	Y		N
1031302	Mt Carmel Animal Hospital	10-Sep-99	Sink	Y		N
1031302	Mt Carmel Animal Hospital	10-Sep-99		Y	N	N
1031302	Mt Carmel Animal Hospital	13-Sep-99	Sink	Y		N
1031302	Mt Carmel Animal Hospital	13-Sep-00	1302	Y	N	
1031303	Mt Vista Golf Course	10-Dec-99	Kitchen Sink	Y		N
1031303	Mt Vista Golf Course	10-Dec-99	Kitchen Sink	Y		N
1031303	Mt Vista Golf Course	10-Dec-99	Ladies Room	Y		N
1031303	Mt Vista Golf Course	10-Dec-99		Y	N	N
1031303	Mt Vista Golf Course	29-Aug-01	829	Y	N	N
1031305	New Antioch Baptist Church	25-Sep-00	1305-2	Y	N	
1031305	New Antioch Baptist Church	28-Sep-00	1305	Y	N	
1031305	New Antioch Baptist Church	28-Sep-00	1305-1	Y	N	
1031305	New Antioch Baptist Church	28-Sep-00	1305-3	Y	N	
1031305	New Antioch Baptist Church	28-Sep-00	1305-4	Y	N	
1031309	May's General Store	5-Mar-97	Kitchen Sink	Y		N
1031309	May's General Store	7-Mar-97	Bathroom	Y		N
1031309	May's General Store	7-Mar-97	Hand Sink	Y		N
1031309	May's General Store	7-Mar-97	Laundry Sink	Y		N
1031309	May's General Store	7-Mar-97	Sink	Y		N
1031309	May's General Store	14-May-97	Hand Sink	Y		N
1031309	May's General Store	3-Oct-01	1003-1	Y	N	N
1031309	May's General Store	5-Oct-01	1005	Y	N	N
1031309	May's General Store	5-Oct-01	1005-1	Y	N	N
1031310	Smoots Collision Center	26-May-99	1	Y	N	

Table 7 Positive Coliform Data for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Date	Sample ID	Total Coliform Positive	Fecal Coliform Positive	E. Coli Positive
1031310	Smoots Collision Center	26-May-99	Hosebib	Y		
1031310	Smoots Collision Center	26-May-99	Hosebib	Y		
1031310	Smoots Collision Center	28-May-99	1	Y	N	
1031310	Smoots Collision Center	28-May-99	2	Y	N	
1031310	Smoots Collision Center	28-May-99	3	Y	N	
1031310	Smoots Collision Center	28-May-99	Hosebib	Y	N	
1031310	Smoots Collision Center	28-May-99	Hosebib	Y	N	
1031310	Smoots Collision Center	28-May-99	Office Bathroom	Y	N	
1031310	Smoots Collision Center	3-Jan-01	103	Y	N	N
1031310	Smoots Collision Center	9-Jan-01	0109-1	Y	N	N
1031310	Smoots Collision Center	2-Apr-01	402	Y	N	N
1031310	Smoots Collision Center	2-Apr-01	0402P	Y	N	N
1031310	Smoots Collision Center	1-Jan-02	101	Y	N	N
1031310	Smoots Collision Center	4-Jan-02	Office Bathroom	Y		
1031310	Smoots Collision Center	1-Apr-02	401	Y	Y	N
1031310	Smoots Collision Center	2-Jul-02	Hosebib	Y	N	
1031310	Smoots Collision Center	2-Jul-02	Upstairs Sink	Y	N	Y
1031310	Smoots Collision Center	9-Oct-02	Office Bathroom	Y		
1031310	Smoots Collision Center	9-Oct-02		Y		
1031310	Smoots Collision Center	9-Oct-02	Upstairs Sink	Y		
1031320	Funky Monkey Café	4-Oct-01	1004	Y	N	N
1031320	Funky Monkey Café	9-Oct-01	1009	Y	N	N
1031320	Funky Monkey Café	9-Oct-01	1009-1	Y	N	N
1031320	Funky Monkey Café	9-Oct-01	1009-2	Y	N	N
1031320	Funky Monkey Café	15-Oct-01	1015	Y	N	N
1031320	Funky Monkey Café	1-Nov-01		Y	N	N
1031321	Highs	7-Aug-00	132-1	Y	N	
1031321	Highs	10-Aug-00	1321-3	Y	N	
1031321	Highs	10-Aug-00	1321-5	Y	N	
1031321	Highs	10-Aug-00	1321-6	Y	N	
1031321	Highs	10-Aug-00	1321-7	Y	N	
1031321	Highs	10-Aug-00	1321-9	Y	N	
1031324	St Marys Orthodox Church	19-May-00	1324	Y	N	N
1031324	St Marys Orthodox Church	24-May-00	1324	Y	N	N
1031324	St Marys Orthodox Church	24-May-00	1324A	Y	N	N
1031324	St Marys Orthodox Church	24-May-00	1324B	Y	N	N
1031324	St Marys Orthodox Church	24-May-00	1324C	Y	N	N
1031324	St Marys Orthodox Church	20-Jun-00	1324	Y	N	N
1031324	St Marys Orthodox Church	19-Sep-00	1324	Y	N	N
1031324	St Marys Orthodox Church	29-Sep-00	1324-1	Y	N	N
1031324	St Marys Orthodox Church	14-Aug-02	Kitchen Sink	Y		N
1031324	St Marys Orthodox Church	14-Aug-02		Y	N	N
1031324	St Marys Orthodox Church	14-Aug-02		Y	N	N
1031324	St Marys Orthodox Church	16-Aug-02	Kitchen Sink	Y		N
1031324	St Marys Orthodox Church	16-Aug-02	Ladies Room	Y		N
1031324	St Marys Orthodox Church	16-Aug-02	Office Bathroom	Y		N
1031324	St Marys Orthodox Church	16-Aug-02		Y	N	N
1031324	St Marys Orthodox Church	16-Aug-02		Y	N	N
1031324	St Marys Orthodox Church	4-Oct-02	Before Pressure Tank	Y		N
1031324	St Marys Orthodox Church	4-Oct-02		Y	N	N
1031324	St Marys Orthodox Church	8-Oct-02	Before Pressure Tank	Y		N
1031324	St Marys Orthodox Church	8-Oct-02		Y	N	N
1031328	Long & Fosters	8-Jan-02	108	Y	N	N
1031328	Long & Fosters	17-Apr-02	417	Y	N	N
1031328	Long & Fosters	17-Apr-02	Kitchen Tap	Y		N
1031328	Long & Fosters	17-Apr-02	Kitchen Tap	Y		N
1031328	Long & Fosters	17-Apr-02	Kitchen Tap	Y		N
1031328	Long & Fosters	17-Apr-02	Kitchen Tap	Y		N
1031328	Long & Fosters	2-May-02	Kitchen Tap	Y		N
1031328	Long & Fosters	2-May-02	Kitchen Tap	Y		N

Table 7 Positive Coliform Data for Transient, Non-Community Public Water Systems

PWSID	PWS Name	Date	Sample ID	Total Coliform Positive	Fecal Coliform Positive	E. Coli Positive
1031328	Long & Fosters	2-May-02	Kitchen Tap	Y		N
1031328	Long & Fosters	2-May-02	Kitchen Tap	Y		N
1031328	Long & Fosters	2-May-02	Kitchen Tap	Y		N
1031328	Long & Fosters	2-May-02		Y	N	N
1031328	Long & Fosters	24-Jul-02	Kitchen Tap #1	Y		N
1031328	Long & Fosters	24-Jul-02	Kitchen Tap #2	Y		N
1031328	Long & Fosters	24-Jul-02	Kitchen Tap #3	Y		N
1031328	Long & Fosters	24-Jul-02	Kitchen Tap #4	Y		N
1031328	Long & Fosters	24-Jul-02	Kitchen Tap #5	Y		N
1031328	Long & Fosters	24-Jul-02		Y	N	N
1031332	Papa Johns Pizza	12-Jul-00	1332	Y	N	
1031332	Papa Johns Pizza	8-Oct-01	1008	Y	N	N
1031332	Papa Johns Pizza	28-Nov-01	1128	Y	N	N
1031332	Papa Johns Pizza	28-Nov-01	1128-1	Y	N	N
1031333	Prices Groceries & Spirits	26-Apr-00	1333	Y	N	
1031333	Prices Groceries & Spirits	27-Apr-00	1333	Y	N	
1031333	Prices Groceries & Spirits	27-Apr-00	1333A	Y	N	
1031333	Prices Groceries & Spirits	27-Apr-00	1333B	Y	N	
1031333	Prices Groceries & Spirits	27-Apr-00	1333C	Y	N	
1031333	Prices Groceries & Spirits	7-Jun-00	1333	Y	N	
1031333	Prices Groceries & Spirits	7-Jun-00	1333A	Y	N	
1031333	Prices Groceries & Spirits	19-Jun-00	1333	Y	N	
1031333	Prices Groceries & Spirits	20-Jun-00	1333	Y	N	
1031335	Camp Milldale Junior Camp	7-Jun-00	Outside Tap	Y		N
1031335	Camp Milldale Junior Camp	16-Jun-00	Girls Room	Y		N
1031335	Camp Milldale Junior Camp	19-Jul-00	Outside Tap	Y		N
1031335	Camp Milldale Junior Camp	8-Aug-01	808	Y	N	N
1031335	Camp Milldale Junior Camp	12-Sep-01	91201	Y	N	N
1031336	Camp Milldale Sports Arena	8-Aug-01	808	Y	N	N
1031336	Camp Milldale Sports Arena	13-Aug-01	813	Y	N	N
1031336	Camp Milldale Sports Arena	22-Aug-01	822	Y	N	N
1031336	Camp Milldale Sports Arena	28-Aug-01	828	Y	N	N
1031337	Camp Milldale Pool Area	8-Aug-01		Y		N
1031345	Hereford Seafood	16-May-00	Bathroom	Y		Y
1031345	Hereford Seafood	16-May-00		Y		Y
1031346	Fork Citgo	3-Oct-01	1003	Y	N	N

Table 8 Transient Public Water Systems Drawing Water from Coastal Plain Aquifers in Baltimore County

PWSID	Name	Information on Sources	Unit	Confined/ Unconfined *
1031044	Farmer Johns	Well is 92' deep; surface geology is Quaternary alluvium, landward of regional Patapsco confining unit	Patapsco Formation or Quaternary Alluvium	Unconfined
1031072	Island View Waterfront Café	Well is 350' deep	Patapsco Formation	Confined
1031144	Rileys Marina	Well depth unknown (possibly 120'); surface geology is Quaternary alluvium	Patapsco Formation or Quaternary Alluvium	Unconfined
1031145	Rocky Point Beach	Patapsco confining unit present	Patapsco Formation	Confined
1031196	Cutters Marina	Well depth unknown; surface geology is Quaternary alluvium; Nitrate up to 3 ppm	Patapsco Formation or Quaternary Alluvium	Unconfined
1031237	Rocky Point Golf Course	Well is 64' deep; nitrate up to 8 ppm	Quaternary Alluvium	Unconfined
1031275	Gunpowder Falls St Pk Days Cove	Well depth is 115'; surface geology is Quaternary alluvium	Patapsco Formation or Quaternary Alluvium	Unconfined
1031288	Gunpowder Falls St Pk Hart-Miller Island	Well depth unknown; surface geology is Quaternary alluvium	Patapsco Formation	Confined
1031298	Jehovahs Witness Kingdom Hall	Well depth is 185'; surface geology is Patapsco Fm.	Patapsco Formation	Confined
1031318	Ballestone Mansion	Well depth unknown; nitrate up to 3 ppm	Patapsco Formation or Quaternary Alluvium	Unconfined
1031325	Caesars Empire	Well depth unknown	Patapsco Formation or Quaternary Alluvium	Unconfined

* For wells with no depth, well log, or other relevant information, interpretation based upon regional extents of geologic units and water quality data

Table 9 Underground Storage Tanks (USTs) Identified/Confirmed During Site Verification Visits

ID	Owner	Name	Town	Type	Volume (Gal)	Relevant PWSIDs *
42	Woodstock Job Corps	UST A	Woodstock	Unknown		
43	Woodstock Job Corps	UST B	Woodstock	Unknown		
44	Woodstock Job Corps	UST C	Woodstock	Unknown		
45	St. Alphonsus Rodriguez Church	UST	Woodstock	Heating Oil		1030083, 1031160
46	Chase Elementary School	UST	Baltimore	Heating Oil		
47	Maryland Police & Correctional Training	UST	Woodstock	Unknown		1030026
48	Maryland Police & Correctional Training	UST	Woodstock	Unknown		1030026
49	Ezrine, Charles	UST	Pikesville	Residential Heating Oil		
50	Baptist Home of Md.	UST	Owings Mills	Heating Oil		
51	Lee & Sandra Gordon	UST	Owings Mills	Residential Heating Oil		
52	Crown Station, Md-081	UST A	Joppa	Gasoline		1031334
53	Crown Station, Md-081	UST B	Joppa	Gasoline		
54	Crown Station, Md-081	UST C	Joppa	Gasoline		
55	Mobil Oil Corp # GP4	UST C	Baltimore	Gasoline		
56	Mobil Oil Corp # GP4	UST B	Baltimore	Gasoline		
57	Mobil Oil Corp # GP4	UST A	Baltimore	Gasoline		
58	Smoot's Auto	UST	Reisterstown	Gasoline		1031306, 1031310, 1031317
59	Deer Park United Methodist Church	UST	Reistertown	Heating Oil		1031031
60	Joseph Ragan Carpenter	UST	Reisterstown	Heating Oil		1031086
61	Reisterstown Evergreen Church of The Brethren	UST	Reisterstown	Heating Oil		
62	Mr. & Mrs. Valley (Tenants)	UST	Lutherville	Residential Heating Oil		
63	Ridge Country Store	UST B	Baltimore	Gasoline		1031236
64	Ridge Country Store	UST A	Baltimore	Gasoline	2000	1031236
65	Padonia Park Club	UST	Cockeysville	Heating Oil		1030076
66	Isadore S. Jachman Reserve Center	UST	Owings Mills			1031188, 1031189
67	Congregation Rosh Pina	UST	Owings Mills	Heating Oil	1500	1031055
68	G. Edgar Harr Son's Corp	UST B	Baltimore	Gasoline		
69	G. Edgar Harr Son's Corp	UST A	Baltimore	Gasoline		
70	Kingsville Elementary School	UST	Kingsville	Heating Oil	10000	1030021
71	Kings Court Motel	UST	Kingsville	Heating Oil	800	1030021, 1031080, 1031083
72	Philip C. Cohen	UST	Reistertown	Residential Heating Oil		1031179
73	Joel Stephen Turett	UST	Glen Arm	Residential Heating Oil		
74	St. John The Evangelist	UST	Hydes	Heating Oil		1030067, 1030069
75	St. John's School	UST	Hydes	Heating Oil		1030067, 1030069
76	Cox, Claude P.	UST	Hydes	Residential Heating Oil		1031212
77	Valley Wine	UST A	Baldwin	Gasoline	6000	1031215, 1031321
78	Valley Wine	UST B	Baldwin	Gasoline	8000	1031212, 1031215, 1031321
79	Carroll Manor Elementary School	UST	Baldwin	Heating Oil	10000	1030005
80	Fairview United Methodist Church	UST	Phoenix	Heating Oil		1031198
81	Jacksonville Elementary School	UST A	Phoenix	Heating Oil		1030054, 1030068
82	Jacksonville Elementary School	UST B	Phoenix	Heating Oil		1030054, 1030068
83	Sparks Post Office	UST	Sparks	Heating Oil		1031114, 1031150, 1031333
84	Mercantile Bank	UST	Sparks	Heating Oil		1031114, 1031150, 1031333
85	Sparks Full Serve, Inc.	UST A	Sparks	Gasoline		1031114, 1031333, 1031351
86	Sparks Full Serve, Inc.	UST B	Sparks	Gasoline		1031114, 1031333, 1031351
87	Gable, Robert R.	UST	Upperco	Residential Heating Oil		1031070

Table 9 Underground Storage Tanks (USTs) Identified/Confirmed During Site Verification Visits

ID	Owner	Name	Town	Type	Volume (Gal)	Relevant PWSIDs *
88	Sharp, Alfred E.	UST	Sparks	Residential Heating Oil		
89	Glencoe Gardens	UST	Monkton	Heating Oil		
90	Hereford Middle School	UST A	Parkton	Heating Oil		1030018
91	Hereford Middle School	UST A	Parkton	Heating Oil		1030018
92	Crown Station, MD-142	UST D	Hampstead	Gasoline		
93	Crown Station, MD-142	UST C	Hampstead	Gasoline		
94	Crown Station, MD-142	UST B	Hampstead	Gasoline		
95	Crown Station, MD-142	UST A	Hampstead	Gasoline		
96	Crown Station, MD-142	UST E	Hampstead	Gasoline		
97	Cedar Grove United Methodist Church	UST	Monkton	Heating Oil	500	1031330
98	Rittenhouse Fuel Company	UST	Monkton	Heating Oil		1031060, 1031232
99	Mt. Carmel U. M. Church Educational Building	UST	Parkton	Heating Oil		1031118
100	Hereford High School	UST D	Parkton	Heating Oil		1030017
101	Hereford High School	UST C	Parkton	Heating Oil		1030017
102	Hereford High School	UST B	Parkton	Heating Oil		1030017
103	Hereford High School	UST A	Parkton	Heating Oil		1030017
104	Sparks Store	UST A	Upperco	Gasoline		1030013, 1031029
105	Sparks Store	UST B	Upperco	Gasoline		1030013, 1031029
106	Sparkle Dew Farm (Formerly Sparks & Hare Farm)	UST	Upperco	Heating Oil		
107	Wally's Citgo	UST B	Parkton	Gasoline		1030001, 1031264
108	Wally's Citgo	UST C	Parkton	Gasoline		1030001, 1031264
109	Wally's Citgo	UST A	Parkton	Gasoline		1030001, 1031264
110	Exxon #26679	UST A	Parkton	Gasoline		1031043, 1031290
111	Exxon #26679	UST B	Parkton	Gasoline		1031043
112	Exxon #26679	UST C	Parkton	Gasoline		1031043
113	Exxon #26679	UST D	Parkton	Gasoline		1031043
114	Prettboy Elementary School	UST	Freeland	Heating Oil	10000	1030028
115	Prettyboy Market, Inc.	UST B	Freeland	Gasoline		1031064, 1031214
116	Prettyboy Market, Inc.	UST A	Freeland	Gasoline		1031064, 1031214
117	Meadowcroft Motors	UST A	Freeland	Gasoline		1031352
118	Meadowcroft Motors	UST B	Freeland	Gasoline		1031352
119	Seventh District Elementary School	UST	Parkton	Heating Oil	10000	1030030
120	Maryland Line Service Center	UST C	Parkton	Diesel		1031231
121	Maryland Line Service Center	UST B	Parkton	Diesel		1031231
122	Maryland Line Service Center	UST A	Parkton	Diesel		1031231
123	Nakazawa, Hiroshi	UST	Stevenson	Residential Heating Oil		1031267
124	Wards Chapel UMC / Preschool	UST	Randallstown	Heating Oil	15000	1031171
125	Citgo, Hanover Pike	UST B	Hampstead	Gasoline		
126	Citgo, Hanover Pike	UST A	Hampstead	Gasoline		
127	Getty, Liberty Rd	UST C	Randallstown	Gasoline		
128	Getty, Liberty Rd	UST B	Randallstown	Gasoline		
129	Getty, Liberty Rd	UST A	Randallstown	Gasoline		
130	Exxon, Liberty Rd	UST A	Randallstown	Gasoline		
131	Exxon, Liberty Rd	UST B	Randallstown	Gasoline		
132	Exxon, Liberty Rd	UST C	Randallstown	Gasoline		
133	Exxon, Liberty Rd	UST D	Randallstown	Gasoline		
134	Exxon, Liberty Rd	UST E	Randallstown	Gasoline		
135	Citgo, Liberty Rd	UST C	Randallstown	Gasoline		
136	Citgo, Liberty Rd	UST B	Randallstown	Gasoline		
137	Citgo, Liberty Rd	UST A	Randallstown	Gasoline		
138	Grace United Methodist Church	UST	Upperco	Heating Oil		1031057
139	St Peter's Lutheran Church	UST	Hampstead	Heating Oil		1031159
140	Citgo, Frederick Rd	UST A	Catonsville	Gasoline		
141	Citgo, Frederick Rd	UST C	Catonsville	Gasoline		
142	Citgo, Frederick Rd	UST B	Catonsville	Gasoline		
143	Fifth District Elementary School	UST	Upperco	Heating Oil	10000	1030013, 1031029
144	Gray & Sons Inc	UST	Butler	Diesel	10000	1031061
145	Butler Volunteer Fire Co	UST B	Parkton	Unknown		1031016, 1031017
146	Butler Volunteer Fire Co	UST A	Parkton	Unknown		1031016, 1031017
147	Genesee Valley Learning Center	UST	Parkton	Diesel		1031264

Table 9 Underground Storage Tanks (USTs) Identified/Confirmed During Site Verification Visits

ID	Owner	Name	Town	Type	Volume (Gal)	Relevant PWSIDs *
148	Md State Highway Administration	UST C	Hereford	Unknown		1031060, 1031232
149	Md State Highway Administration	UST B	Hereford	Unknown		1031060, 1031232
150	Md State Highway Administration	UST A	Hereford	Unknown		1031060, 1031232
151	Grauls Superthrift Market	UST	Parkton	Gasoline	20000	1031060, 1031232
152	Meadowcroft Exxon	UST A	Parkton	Gasoline		1031060, 1031232
153	Meadowcroft Exxon	UST B	Parkton	Gasoline		1031060, 1031232
154	Meadowcroft Exxon	UST D	Parkton	Gasoline		1031060, 1031232
155	Meadowcroft Exxon	UST C	Parkton	Gasoline		1031060, 1031232
156	Valley Inn	UST	Lutherville	Residential Heating Oil		1031168
157	Bob's Auto	UST - Permanently out of use	Monkton			1030019, 1031047, 1031067, 1031203, 1031301, 1031302, 1031320, 1031345
158	Property Adjacent To Food Market	UST	Maryland Line	Diesel	250	1031163, 1031230
159	Winkler Auto	UST B	Parkton	Gasoline		1031106, 1031163
160	Winkler Auto	UST A	Parkton	Gasoline		1031106, 1031163
161	White Hall Market	UST A - Out of Use	White Hall	Gasoline		1031173
162	White Hall Market	UST B - Out of Use	White Hall	Gasoline		1031173
163	White Hall Market	UST C - Out of Use	White Hall	Gasoline		1031173
164	West Liberty Um Church	UST	White Hall	Heating Oil		1031241
165	Twin Oaks Carryout & General Store	UST	Monkton	Gasoline		1031327
166	Citgo, Jarrettsville Pike	UST B	Phoenix	Gasoline		1030054, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
167	Citgo, Jarrettsville Pike	UST A	Phoenix	Gasoline		1030054, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
168	Citgo, Jarrettsville Pike	UST D	Phoenix	Gasoline		1030054, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
169	Citgo, Jarrettsville Pike	UST C	Phoenix	Gasoline		1030054, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
170	Four Corners Exxon, Jacksonville	UST A	Phoenix	Gasoline		1030054, 1030060, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
171	Four Corners Exxon, Jacksonville	UST B	Phoenix	Gasoline		1030054, 1030060, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
172	Four Corners Exxon, Jacksonville	UST C	Phoenix	Gasoline		1030054, 1030060, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
173	Four Corners Exxon, Jacksonville	UST D	Phoenix	Gasoline		1030054, 1030060, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332

Table 9 Underground Storage Tanks (USTs) Identified/Confirmed During Site Verification Visits

ID	Owner	Name	Town	Type	Volume (Gal)	Relevant PWSIDs *
174	Four Corners Amoco	UST B	Phoenix	Gasoline	10000	1030054, 1030060, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
175	Four Corners Amoco	UST A	Phoenix	Gasoline	10000	1030054, 1030060, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
176	Four Corners Amoco	UST C	Phoenix	Gasoline		1030060
177	Long Green Baptist Church	UST	Long Green	Heating Oil		1031300
178	Glen Arm Maintenance	UST	Randallstown	Unknown		1031210
179	R Gervais	UST - Permanently out of use	Glen Arm	Residential Heating Oil		
181	White Marsh Exxon	UST A	White Marsh	Gasoline		
182	White Marsh Exxon	UST B	White Marsh	Gasoline		
183	White Marsh Exxon	UST C	White Marsh	Gasoline		
184	White Marsh Exxon	UST D	White Marsh	Gasoline		
185	Fork United Methodist Church	UST	Fork	Heating Oil		1031200
186	Fork Citgo	UST A	Kingsville	Gasoline	6000	1030070, 1031199, 1031250, 1031259, 1031263, 1031346
187	Fork Citgo	UST B	Kingsville	Gasoline		1030070, 1031199, 1031250, 1031259, 1031263, 1031346
188	Fork Citgo	UST E	Kingsville	Gasoline		1030070, 1031199, 1031250, 1031259, 1031263, 1031346
189	Fork Citgo	UST D	Kingsville	Gasoline		1030070, 1031199, 1031250, 1031259, 1031263, 1031346
190	Fork Citgo	UST C	Kingsville	Gasoline		1030070, 1031199, 1031250, 1031259, 1031263, 1031346
191	Riley's Marina	UST	Baltimore	Gasoline		1031144, 1031196
192	Kingsville Food Rite	UST	Kingsville	Heating Oil	10000	1031080, 1031083, 1031312
194	Hawthorne Elementary School	UST - Permanently out of use	Baltimore	Heating Oil		
195	Clark Residence	UST - Permanently out of use	Reistertown	Residential Heating Oil		1031031
196	James Keelty, III	UST - Permanently out of use	Lutherville	Residential Heating Oil		
197	Fairbank, David / Woodensburg Country Store	UST - Permanently out of use	Reisterstown	Residential Heating Oil		1031176
198	Baltimore County Fd Training/Nike Site	UST - Permanently out of use	Phoenix	Heating Oil		1031129
199	Parish House of Church	UST - Permanently out of use	Sparks	Heating Oil		1031228
200	Sparkle Dew Farm	UST - Permanently out of use	Upperco	Unknown		1031052
201	Lawrence Peter	UST - Permanently out of use	Reistertown	Residential Heating Oil		1031046

* This table includes PCS identified during site visits for both transient and non-transient, non-community PWS; PWSIDs include both transient (this report) and non-transient systems

Table 10 Non-UST Potential Contaminant Sources Identified/Confirmed During Site Verification Visits

ID	Owner	Type	Town	Relevant PWSIDs *
1	Granite - Launch	CERCLIS	Woodstock	1031188
2	Granite - Control	CERCLIS	Woodstock	1031189
3	Maryvale Preparatory School	CERCLIS	Lutherville	1030025
4	Greenspring - Control	CERCLIS	Owings Mills	1031188, 1031189
5	United Container Machinery	CERCLIS	Glen Arm	1031202
6	Us Army Phoenix - Launch	CERCLIS	Phoenix	1031129
7	Four Corners (Jacksonville)	CERCLIS	Phoenix	1030054, 1030060, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
8	Tyco Instruments	CERCLIS	Sparks	
9	Greenspring Control Cerclis	CERCLIS	Owings Mills	1031188, 1031189
10	Riley's Marina	CHS Generator	Baltimore	1031144, 1031196
11	American Tower	CHS Generator	Randallstown	
12	Photographic Directory Publishing	CHS Generator	Randallstown	
13	King's Valet Cleaners	CHS Generator	Randallstown	
14	Box Hill Cleaners	CHS Generator	Joppa	
15	Smoots Body Shop	CHS Generator	Reisterstown	1031306, 1031310, 1031317
16	Belko Corporation	CHS Generator	Kingsville	1030003
17	United Container Machinery	CHS Generator	Glen Arm	1031202
18	Verizon Telephone	CHS Generator	Fork	1030070, 1031199, 1031250, 1031259, 1031263,
19	Field, Paul E Jr DDS	CHS Generator	Fork	1030070, 1031199, 1031250, 1031259, 1031263,
20	Weschler Instruments	CHS Generator	Hunt Valley	1031346
21	AAI Corp.	CHS Generator	Hunt Valley	
22	Jacksonville Chevron	CHS Generator	Phoenix	1030054, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332,
23	Amoco #3033	CHS Generator	Phoenix	1030054, 1030060, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
24	Exxon #28077	CHS Generator	Jacksonville	1030054, 1030060, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
25	Four Corners Exxon, Jacksonville	CHS Generator	Phoenix	1030054, 1030060, 1031074, 1031146, 1031184, 1031260, 1031291, 1031323, 1031328, 1031332
26	Tyco Instruments	CHS Generator	Sparks	
27	Tyco Instruments	CHS Generator	Sparks	
28	Fowblesburg Motors	CHS Generator	Upperco	1031040, 1031068
29	Ed's Garage	CHS Generator	Hereford	1030019, 1031047, 1031067, 1031203, 1031301, 1031320, 1031345
30	Autotech	CHS Generator	Monkton	1030019, 1031047, 1031067, 1031203, 1031301, 1031320, 1031345
31	Maryland State Highway Administration	CHS Generator	Parkton	1031060, 1031232
32	Troyer's Self-Serve Station	CHS Generator	Parkton	1031170, 1031292, 1031302
33	Troyer's Self-Serve Station	CHS Generator	Parkton	1031170, 1031292, 1031302
34	White House Farm Supply	CHS Generator	Upperco	1031029
35	Verizon Telephone	CHS Generator	Parton	1031124
36	Meadowcroft Motors	CHS Generator	Freeland	1031352
37	BGE	CHS Generator	Catonsville	1031224
38	Verizon Telephone	CHS Generator	Kingsville	1030070, 1031199, 1031250, 1031259, 1031263, 1031346
39	Randallstown Animal Hospital	Groundwater Discharge	Randallstown	1031191, 1031307
40	Smoots Body Shop	Groundwater Discharge	Reisterstown	1031306, 1031310, 1031317
41	Har Sinai Property	VCP Site	Baltimore	
202	Days Cove Rd Reclamation Site Rubble Landfill	Rubble Landfill	White Marsh	1031275
203	Mt. Vista Golf Course	Yard Waste Dump	Bradshaw	1031303
204	Redland-Genstar Quarry	Mined Land	Baltimore County	1031325
205	Redland-Genstar Quarry	Mined Land	Baltimore County	1031298
206	Gunpowder Falls State Park	Mined Land	Baltimore	1031334

* This table includes PCS identified during site visits for both transient and non-transient, non-community PWS; PWSIDs include both transient (this report) and non-transient systems

Table 11 Summary of Sanitary Survey and Site Visit Observations for Transient Public Water Systems

No.	PWSID	PWS NAME	Date Of Most Recent Sanitary Survey Reviewed	Deficiency Noted?	Sanitary Survey Deficiency Explanation / Comments	Date Of SWAP Visit	SWAP Field Notes
1	1030014	Forest Baptist Child Development Center	Mar-00	No	None; Supplying bottled water, notices posted in bathrooms, tank in clustered room	May-03	Well OK, no tag.
2	1030019	Hereford Plaza (Michaels Pizza/ Highs)	Dec-01	No	One well served all of shopping ctr. Two food establishments. Septic is also shared.	May-03	Well OK, no tag.
3	1030064	Peerces Plantation	Apr-00	No	Good condition. One bacteria violation in 2000.	Apr-03	Well OK, no tag.
4	1030074	Baltimore County Greystone Golf Course	Oct-01	No	None	May-03	Well OK.
5	1030079	Suburban Propane	May-00	Yes	Trace detections of benzene; Groundwater contamination from petroleum; Bottled water supplied, new well in service, groundwater contamination on site(petroleum), levels in new well are below MCL But bottled water used as precaution	Mar-03	Well OK.
6	1031001	Albanstown Inn		No	Nitrate sampled 1/18/02 - 11.7	May-03	Well inside building, underneath wall of beer cases. Not visible.
7	1031002	American Legion #256 Parkton	Nov-99	No	Well Is in concrete cylinder in the parking lot. No one was familiar with the well history.	May-03	Two wells: one tagged, one paved over (dry?)
8	1031003	Arcadia Volunteer Fire Co	Dec-99	No	Good condition. One bacteria violation in 2000.	Apr-03	Well in located in pump house. Pump House is different location than Fire House Address (Arcadia Ave). Coordinates (at Brown Rd and Cardinal Ave) put well ~150m N of firehouse location
9	1031007	Baltimore County Baptist Church	Sep-99	No	Well overgrown with evergreen shrubs	Mar-03	Well OK, no tag. Well surrounded by schrubs, hard to see.
10	1031012	Boring Vol Fire Dept	Oct-99	No	Well in good condition.	Mar-03	Well OK, no tag.
11	1031016	Butler Store & Liquors	Sep-99	No	Main store and liquor store are on same well. System was satisfactory.	Apr-03	Well OK, no tag.
12	1031017	Butler Volunteer Fire Co	Dec-99	No	Well is in a pit inside the facility and was not observed. System appears to be adequate.	Apr-03	Well OK.
13	1031022	Cherrys Inn	Sep-99	Yes	Conduit for electric line is broken at top.	May-03	Well OK, no tag.
14	1031024	Chestnut Grove Presbyterian Church	Oct-99	No		Apr-03	Well OK.
15	1031029	Countryside Carryout	Sep-99	No	Water Testing Lab of Maryland is contracted. Bottled water is used for coffee and food prep because of iron in water. Sediment/Charcoal filters on system at service point. Rental house also on system.	May-03	Well OK.
16	1031031	Deer Park United Methodist Church	Jun-02	No	None	Apr-03	Well not visible, photo and GPS taken of pump housing.
17	1031032	Dew Drop Inn & Beef Pit	Jan-00	No		Mar-03	Well OK, no tag.
18	1031039	Eklo Inn	Sep-99	No	System is in good shape	May-03	Well OK.

Table 11 Summary of Sanitary Survey and Site Visit Observations for Transient Public Water Systems

No.	PWSID	PWS NAME	Date Of Most Recent Sanitary Survey Reviewed	Deficiency Noted?	Sanitary Survey Deficiency Explanation / Comments	Date Of SWAP Visit	SWAP Field Notes
19	1031040	Elmos Luncheonette	Oct-99	No	Unable to inspect well due to location in pit. Pit covered by a heavy concrete cover.	Apr-03	Well OK, no tag. Survey indicated well covered by concrete slab which is no longer the case.
20	1031043	Parkton Exxon	Nov-99	No	Untreated water sampling tap.	May-03	Well OK, no tag.
21	1031044	Farmer Johns	Dec-99	No	Septic system appears to be functioning properly.	May-03	Travis Sterner of MDE collected GPS data
22	1031046	North Star	Oct-01	No	None	May-03	Travis Sterner of MDE collected GPS data
23	1031047	First Baptist Church of Hereford	Oct-02	No	Pressure tank accessible for sampling. Since jet pump exists, well is not deep.	May-03	Well not visible, located underneath pavement.
24	1031055	Congregation Rosh Pina	Aug-99	No	Well system is protected. 1500 Gal. capacity. New tank 9/77.	Mar-03	Well OK.
25	1031056	Kingsville Tavern	Nov-99	No	No problems observed. Not much is known about well.	Mar-03	Rusty casing, no tag.
26	1031057	Grace United Methodist Church	Oct-01	No	None; Well inspected per requirements for food service (new kitchen installation), new septic installations were coordinated	Apr-03	Point GPS'd on property, Location of well unclear
27	1031059	Granite Presbyterian Church	Dec-99	No	System intact.	Mar-03	Two wells, but only 1 is part of PWS; other is used for parrish house only; Horne Data bad for PWS well; corrected by HAC after-the-fact
28	1031061	Gray & Sons Inc	Oct-99	No		Apr-03	Well OK, no tag.
29	1031062	Green Valley Swim Club	Aug-00	No	None	Jun-03	2 wells GPS'd, neither had tags.
30	1031064	Gunpowder Baptist Church	Aug-99	No	Two systems--old and new church exist on both sides of Middletown Road (At Freeland Road). Pastor's House is also on the new church system--both buildings have their own septic system.	May-03	Well OK, no tag. Church has expanded onto property across the street, one well GPS'd for this property.
31	1031066	Hereford Assembly of God	Oct-99	Yes	Need to caulk wire through hemispheric plates.	May-03	Well underneath concrete cover.
32	1031067	Hereford United Methodist Church	Aug-99	No	Some settling around well observed. Furnace room with pressure tanks need lights.	May-03	Well almost buried under mulch.
33	1031068	Highs	Oct-99	No	Unable to locate well. Well located beneath the three compartment sink according to report in file.	Apr-03	Well inside, underneath 3 compartment sink. GPS point taken outside front door. No tag.
34	1031070	Colonial Inn	Dec-99	No	System appears intact. Well located in upper parking lot	Apr-03	Well OK, no tag.
35	1031072	Island View Waterfront Café (Formerly Island View Inn)	Nov-99	No		Apr-03	Well OK, no tag. Now "Island View Waterfront Café"
36	1031074	Jacksonville Exxon	Apr-00	No		Apr-03	Well OK.
37	1031078	Jacksonville Volunteer Fire Co	Dec-99	No		Apr-03	Two wells GPS'd, both OK.
38	1031080	Kings Court Motel	Dec-99	No		Mar-03	Well in good condition. Located in vault behind motel office.

Table 11 Summary of Sanitary Survey and Site Visit Observations for Transient Public Water Systems

No.	PWSID	PWS NAME	Date Of Most Recent Sanitary Survey Reviewed	Deficiency Noted?	Sanitary Survey Deficiency Explanation / Comments	Date Of SWAP Visit	SWAP Field Notes
39	1031082	Kingsville Athletic Field House	Apr-00	No	Good condition	Mar-03	Well in good condition. Approx 20' from road. Unidentified vault next to well (see photo) Possibly septic for Restrooms/Locker Room (Building 100' from well.)
40	1031083	Kingsville Food Rite	Aug-99	No	Well could not be visually inspected because it is in a sealed pit. Rest of system is OK.	Mar-03	Well located underneath sealed pit, not visible.
41	1031085	Kingsville Volunteer Fire Co	Apr-00	No	Sanitary Survey in 1991 reports trash dump adjacent to well (1-22-03). Well in good condition. Previously inspected 3/31/00.	Mar-03	Well in good condition. No tag visible, but contact positively ID'd well. Fire Fighting Practice area adjacent to well.
42	1031086	Lakeview Swim Club	Jun-02	No	None; Unable to locate well location	Apr-03	Could not inspect well, located inside locked shed attached to building. GPS'd point directly outside shed.
43	1031087	Lees Tavern	Nov-99	No	None	May-03	Well OK, no tag.
44	1031089	Liberty Reformed Presbyterian Church	May-99	No	No problems observed. Bacteria within limits. Nitrate within limits.	Apr-03	One well GPS'd, no tag.
45	1031090	Little Falls Tavern	Nov-02	No	Untreated water sampling tap. No disinfection treatment.	Mar-03	Well casing in good condition.
46	1031093	Loch Raven Fishing Center	Jan-11	No	Notes appeared on the sheet, But there was no inspector's name or date of inspection.	Apr-03	Well OK, no tag.
47	1031094	Loch Raven Skeet & Trap Club	Apr-00	No	Additional information needed.	Mar-03	Well OK.
48	1031095	Timber Creek Tavern	Jul-00	No	None	Mar-03	Well in good condition. No tag visible. Located at the top of slope, downhill from parking lot and restaurant.
49	1031098	Long Green Volunteer Fire Co	Dec-99	No	Untreated water sampling tap. 3 storage tanks @ 100 gal. each. Filter treatment: sand & grit.	Mar-03	Wells OK, no tags: (1) painted over, (2) missing tag, (3) underneath manhole cover.
50	1031103	Manor Tavern Inc	Jan-00	No	Diagram indicates a maintained air gap in new and old lines. Backflow Preventer fits, but should not be in place unless approval given to use old well as an alternate source.	May-03	2 wells GPS'd, about a half mile from property. Water pumped through pipeline to tavern.
51	1031106	Maryland Line Inn	Dec-02	No	No problems observed. Untreated water sampling tap. 2-Piece well cap. System storage: 30 Ga.L. hydropneumatic tank.	May-03	Well casing appears to have been destroyed. Employees at Inn knew nothing about the water supply for the bldg.
52	1031108	Maryland Line Vol Fire Co	Nov-99	No	No recommendations.	May-03	Well located underneath concrete
53	1031112	Midway Inn / Midway Liquors	Nov-99	No	Well in pit not inspected. No vulnerability noted.	Mar-03	New well (well from survey outdated) OK. New well is: WELL BA-94-5755 (PWSID 1031112)
54	1031114	Milton Inn	Jan-11	No	Bladder Tank Storage	Apr-03	Well OK, no tag.

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55	1031115	Lee's Valley Gourmet (Formerly Mr Charles Market Place)	Oct-99	Yes	Advised to abandon unused well on the property. There is a tanker truck on the property until the well is cleared for reconnection. Well has been repaired and chlorinated. History of bacteria violations.		Well OK.
56	1031116	Reisterstown Moose Lodge #1577		No		Apr-03	Well OK.
57	1031117	Morris Meadows Recreation Farm Inc	Dec-99	Yes	Well had minor crack and hole drilled in it. Well sampling reports for several sampling locations at farm. The well cap had a deteriorated O-Ring on it.	May-03	Well OK. GPS'd a new well (tag# BA 941483) located at the new "Morris Meadows Museum." The new well isn't a replacement, it serves a newly built facility.
58	1031118	Mount Carmel United Methodist Church	Nov-99	No	Well services the education And church buildings. Well is protected.	May-03	Well located inside bldg. Point taken directly outside.
59	1031120	Oregon Ridge Park Nature Center	Oct-99	No	No treatment in well.	Mar-03	Well in good condition. Tag is visible. Well BA 73-7339 is located across stream from Nature Center, on edge of trail.
60	1031121	Oregon Ridge Park Lodge	Oct-99	No	System protected - Sodium Hypochlorite Treatment.	Mar-03	All wells located at bottom of hill, in field past main office building. All four wells are in great condition, and all well tags are visible. All four wells were located very close to the others.
61	1031123	Oregon Ridge Park Beach	Oct-99	No	6000 gal. storage capacity. Untreated water sampling tap.	Mar-03	Well located uphill from Beach House. Located under a manhole cover, behind the shed, and adjacent to a large above ground storage tank. The sanitary survey confirmed the well location.
62	1031126	Park Inn	Apr-00	No	Employee was unable to give any information on system. A rough sketch made after visual inspection on grounds.	May-03	Well OK, no tag.
63	1031129	Papermill Recreation Center	Dec-99	No		Apr-03	Well OK.
64	1031133	Pioneer House	Nov-99	No	Untreated water sampling tap. 100 gal storage tank.	May-03	Well OK, no tag.
65	1031134	Pleasant Grove United Methodist Church	Dec-99	No	Pit at Old Fellowship Hall has a dirt floor--No record of bacterial problems. #2 Well in it & subject to ground water.	Apr-03	Well at church GPS'd. Well at meeting hall underneath porch, covered by black fabric.
66	1031135	Pleasant Hill Chapel	Dec-02	No		Apr-03	Well OK.
67	1031140	Redeemer Lutheran Church	Oct-99	No	Untreated water sampling tap. 100 gal storage.	May-03	Well OK.
68	1031141	American Legion #116 Reisterstown	Oct-01	No	None	Apr-03	Well located in pump house
69	1031144	Rileys Marina	Mar-00	No	Untreated water sampling tap.	Apr-03	Well not visible, underneath concrete slab.

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No.	PWSID	PWS NAME	Date Of Most Recent Sanitary Survey Reviewed	Deficiency Noted?	Sanitary Survey Deficiency Explanation / Comments	Date Of SWAP Visit	SWAP Field Notes
70	1031145	Rocky Point Beach	Jan-00	No	Untreated water sampling tap. 1448 gal. X2 storage capacity.	Apr-03	2 wells GPS'd. One permit # did not match the # in survey. One of the GPSd wells BA81-1262 matched number in database. The other GPDSd well is BA73-6256
71	1031146	Roma Carry Out	Oct-01	No		Apr-03	2 well pits GPS'd in parking lot.
72	1031153	Sportsmans Hall Roller Rink	Sep-99	Yes	Coliform bacteria; not vented, 6-7' above concrete floor, Casing is rusty/brittle, plumber added silcon caulk between cap, sump pump in pit below building, square (4X4) opeing in pit by sump pump, floor wet, puddle behind storage tank at casing.	Apr-03	Well OK, no tag.
73	1031157	St Johns Episcopal Church		No	Installed UV Treatment System in Nov. 2001	Mar-03	Well OK.
74	1031158	St Paul United Brethren Church in Christ	Dec-99	No	Recommend a better well seal be installed	May-03	Well OK.
75	1031159	St Peters Lutheran	Dec-99	No	None	May-03	Well OK, no tag.
76	1031160	St Alphonsus Rodriguez Church	Aug-99	No	Positive for bacteria 7/99. The vent/ wire cover pipe is open at the bottom and does not go into the ground. This is scheduled to be repaired next week after chlorine tests are negative. Wiring - not OK-being replaced next week.	Mar-03	Second well for parrish house only; not included in PWS.
77	1031163	Thompsons Food Market	Oct-01	No	None	May-03	Well OK, no tag.
78	1031168	Valley Inn	Sep-99	No	Owner stated the well is located 15 feet from facility in parking lot and gave additional info regarding well (year built, depth & yield). Reinspection needed for distribution system.	Mar-03	According to hostess and sanitary survey, well located under manhole in driveway, just outside door to parking lot. Well not visible.
79	1031170	Wagon Wheel Restaurant	Apr-00	Yes	Storage tank in basement of house. Carbon filter at service fountain restaurant. Water Testing Lab Tested Supply 2/28/00. Advised to repair very loose well cap.	May-03	Well OK, no tag.
80	1031171	Wards Chapel United Methodist Church / Preschool	Dec-00	No	Added point of use Reverse Osmosis Filters at the water fountains. Water source quality: Slightly Corrosive. Calcite Filter to give Ph boost. Ion exchange to remove nitrates.	Apr-03	Well OK, no tag.
81	1031173	West Liberty Carryout	Oct-99	No	Eliminate hole beside casing (6" Diameter). 10/18/99- Repairs completed. Untreated water sampling tap.	May-03	Well OK.
82	1031176	Woodensburg Country Store	Oct-99	No	System in good condition. No untreated water sampling tap.	Mar-03	Well OK, no tag.
83	1031178	Worthington Valley Country	Oct-01	No		Mar-03	Well OK.
84	1031179	Worthington Valley Swim Club	Sep-99	Yes	Bad bacterial sample results received. Club currently closed for season. Club requested extension on chlorination and /or repair.	Mar-03	Two wells listed in survey; one buried, not in use. Other is OK, has no tag.
85	1031184	Four Corners Amoco	Apr-00	No	New owner (2 Weeks) had no knowledge of where the well and septic systems are located. Culligan Treatment Systems in rear area of facility (inside)	Apr-03	Well underneath manhole cover.
86	1031185	Camp Holiday	Nov-99	No	Both wells are untreated; Well by bathhouse has had a history of bact. problems in the past.	Apr-03	2 wells GPS'd, no tags.

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No.	PWSID	PWS NAME	Date Of Most Recent Sanitary Survey Reviewed	Deficiency Noted?	Sanitary Survey Deficiency Explanation / Comments	Date Of SWAP Visit	SWAP Field Notes
87	1031186	Camp Puh'Tok / Nature Camps	Nov-99	Yes	Coliform bacteria; Advised to secure screws on well #4 that is not in use.	Apr-03	3 wells GPS'd, 2 w/out tags.
88	1031188	Chestnut Ridge Farm Market	Jul-99	No	There is a sediment filter on the supply. The storage tank (75 Gal) is located in the basement; Anti -Sychonate(?) Device in the system to protect the well. The lines were checked for leakage. The tanker has metro water.	Mar-03	Well OK.
89	1031189	Chestnut Ridge VFD	Sep-99	No	Well is located in the far northwest corner of property behind the fenced in cable area	Mar-03	OK
90	1031191	Club 3960 Inc	Oct-99	No	Well located below grade	Apr-03	Survey noted well location in parking area, unknown. GPS'd point in parking lot.
91	1031196	Cutters Marina	Jan-00	No		Apr-03	Well OK, no tag.
92	1031197	Piney Branch Country Club	Oct-01	No	None	Apr-03	Well OK.
93	1031198	Fairview United Methodist Church	Jun-02	No	None; Property covers 2 septic cleanouts	Apr-03	Well OK.
94	1031199	Fork Deli	Nov-99	Yes	Advised owner to replace broken cleanout caps.	Mar-03	Well underneath hole cover, not visible.
95	1031200	Fork United Methodist Church	Oct-99	No	Parsonage can be connected / checkvalve. Well is in a pit with concrete cover. Jet pump in basement.	Mar-03	Well underneath cement cover, located in back of church.
96	1031202	Long Green Valley St/ Maple Hill Farm Mk	Nov-99	No	Water supply serves both buildings. Untreated water sampling tap.	Mar-03	Well in good condition. No tag. Back corner of property, in flat wet area.
97	1031203	Hereford Volunteer Fire Co	Oct-99	No	Have had bottled water when well runs low.	Apr-03	Well OK, no tag.
98	1031204	John Browns Store	Sep-99	No	No recommendations necessary at this time.	Mar-03	Well at corner of Falls Rd and Shawan. Tag visible. Well in good condition.
99	1031207	Maryland State Police Firing Range	Dec-99	No	System is used to wash hands. Not used for cooking or drinking. Bottled water is used for cooking/drinking.	Apr-03	Well OK.
100	1031210	Independent Order of Oddfellows #22	Oct-99	No	In process of raising casing above ground and inspecting system for sources of potential contamination. System vulnerability was left unchecked by inspector.	Mar-03	Well OK, no tag.
101	1031212	Palmisanos of Baldwin	Oct-99	No	Advised to: 1)Repair broken PVC for conduit line; 2)Small piece of gasket is visible at cap; 3) 1 screw missing.	Mar-03	
102	1031213	Parke Memorial United Methodist Church	Jan-00	No	None; Well is buried under tenants rear porch per pastor. The property must be excavated in order to see well. Well not observed. Process flow unknown	May-03	Well underneath concrete cover. Point GPS'd in parking lot for general septic area.
103	1031214	Prettyboy Market	Dec-99	No	System appears satisfactory.	May-03	Well OK, no tag.
104	1031215	Valley Wine Shop Inc	Oct-99	No	Owner advised to replace broken SOS cap with approved cap and remove rocks piled on top of casing. No untreated water sampling tap.	Mar-03	
105	1031218	Salem United Methodist Church		No		Mar-03	Well OK.
106	1031219	Sanders Corner	Oct-01	No	None	Mar-03	Well located under back left corner of back porch. Downgrade from building and road.

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No.	PWSID	PWS NAME	Date Of Most Recent Sanitary Survey Reviewed	Deficiency Noted?	Sanitary Survey Deficiency Explanation / Comments	Date Of SWAP Visit	SWAP Field Notes
107	1031220	Sheffield Recordings Limited Inc	Dec-99	No		Mar-03	Well OK.
108	1031221	Stevenson AME Church	Apr-00	No	Good condition	Apr-03	Well OK.
109	1031224	Catonsville Elks Lodge #2323	Oct-01	No		Apr-03	Well not tagged.
110	1031226	Gunpowder Falls St Pk Sparks Nature Ctr	Nov-99	Yes	Multiple positive coliform bacteria; Recommended the installation of a hand pumped sampling tap. Advised frost free hydrants are subject to bacterial contamination. No SDS - No Toilets.	Mar-03	Well tag was visible. Well in good condition.
111	1031227	Original Hawaiian Island Snoball	Oct-99	No	Facility closed. Seasonal. Respection necessary to complete survey	Apr-03	Well OK, no tag.
112	1031228	Immanuel Episcopal Church	Dec-99	No	Well water has separate treatment (Ph Neutralizers) at the residence and office/hall building. Water to church is untreated.	Apr-03	Well almost buried under mulch.
113	1031230	Maryland Line United Methodist Church	Nov-99	Yes	Using bottled water due to nitrates--Notice is posted. System vulnerability box marked "Protected."	May-03	Well OK, no tag.
114	1031231	Maryland Line Service Center	Nov-99	No	Well appears to have been hit. The protector bars were hit 10 days prior and tanker truck supply is currently in use during the correction interim. System vulnerability status unmarked.	May-03	Well OK, tag has been painted over.
115	1031232	Meadowcroft Exxon	Jan-11	No	Untreated water sampling tap. 100 gal storage. 1 Pc. well cap, 6" Casing, Metal Casing.	May-03	Well OK, almost buried under mulch.
116	1031234	Msgr O'Dwyer Retreat House	Oct-02	No		May-03	2 wells GPS'd, one w/ no tag. 3 other wells on site dry, permanently out of use.
117	1031235	Pats Greenwood Deli	Oct-99	No	Pending rechlorination and resampling corrections made and resampling completed. Facility granted permission to reopen.	Mar-03	Well OK, no tag.
118	1031236	Ridge Country Store	Sep-99	No	System vulnerability unchecked. Further investigation is required to determine the schematic process of the distribution system.	Apr-03	Exact location of well unknown (paved over). Photo and GPS taken of pump housing.
119	1031237	Rocky Point Golf Course	Dec-99	No		Apr-03	Well OK, no tag.
120	1031241	West Liberty United Methodist Church	Sep-99	No	Untreated water sampling tap. 30 gal storage capacity.	May-03	Well located in basement.
121	1031245	Beachmont Christian Camp	Dec-99	No		Mar-03	Well OK.
122	1031248	Gunpowder Youth Camp Kalor	Nov-99	Yes	9/9/99 results positive for coliform--sampled at frost-free hydrant. Recommended to install an additional hard plumbed sampling tap. Frost-Free hydrant marked "Vulnerable."; Untagged well.	Apr-03	Well underneath concrete cover.
123	1031249	Clynmalira Methodist Church	Aug-02	No		Apr-03	Well in pit behind church.
124	1031250	Fork Plaza / Highs / Johnny Ryans	Nov-99	No	No Recommendations.	Mar-03	Well OK, tag not visible.
125	1031252	Long Green Church of Brethren	Dec-99	No	No Recommendations. Untreated water sampling tap. Metal cap and casing on well. 50 gal. storage capacity.	Mar-03	

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No.	PWSID	PWS NAME	Date Of Most Recent Sanitary Survey Reviewed	Deficiency Noted?	Sanitary Survey Deficiency Explanation / Comments	Date Of SWAP Visit	SWAP Field Notes
126	1031253	Camp Milldale Main Office	Nov-99	No	Type of treatment: No treatment.	Apr-03	Well OK, no tag. OK - well in different location than marked on map
127	1031255	St Johns Episcopal Church	Oct-01	No		Mar-03	Well inside of casing (See photo). Well not visible.
128	1031256	St Johns Lutheran Church	Jan-00	No	Two wells on property: one in pit 9Pit is clean, dry, and secure. One new drilled approximately 3 years old. 3 Connections: Main Church, Rectory, Chapel.	Apr-03	Two wells GPS'd, one w/ tag. Other located in pit in parking lot.
129	1031259	Paul E Field Jr DDS Pa	Dec-99	No	Untreated water sampling tap	Mar-03	Well OK, no tag.
130	1031260	Charcoal Grill	Oct-99	No	Well supplies both nursery and the deli. Pipe goes under the asphalt parking lot; Water goes from well to nursery storage then to deli	Apr-03	Well OK, nearly buried underneath rocks and mulch.
131	1031263	Fork Christian Church	Dec-99	No	Pitless Adaptor. Wiring OK. Pump OK.	Mar-03	Well OK.
132	1031264	Genesee Valley Learning Center	Dec-99	No	5/25/99 Sample for Nitrate <10 Mg/L	May-03	Three wells GPS'd, none w/ tags. Only 2 in database, but all 3 wells used for Public water system - the additional well is located in a house occupied by employees/visitors of the camp.
133	1031265	Lassahn Funeral Home	Dec-99	No	Untreated water sampling tap	Mar-01	Well in good condition. No tag. Located on left side of building behind bushes.
134	1031266	Dons Place	Apr-00	No	Well cap is not secure. Replaced pump recently.	May-03	Well OK, no tag.
135	1031273	Gunpowder Falls St Pk Camp Cone	Dec-99	No	Water is supplied to frost-free taps. There is no spetic system on site.	Mar-03	
136	1031274	Gunpowder Falls St Pk Camp Wood	Dec-99	No	None; Recommended to install a pre-treatment sampling tap	Mar-03	No tag visible. Well in good condition.
137	1031275	Gunpowder Falls St Pk Days Cove	Nov-99	No	Plastic cap good condition	Mar-03	No tag visible. Well in good condition. Sanitary survey had well tag #BA 94-3140.
138	1031276	Gunpowder Falls St Pk Monkton Train St	Nov-99	No		Mar-03	Tag is visible. Well in good condition.
139	1031278	Cromwell Valley Merrick House	Jun-99	No	Manager, Leo Rebetsky, will proceed with requirements	Mar-03	Well in good condition.
140	1031279	Cromwell Valley Sherwood House	Oct-01	No	None	Mar-03	Wells located underneath metal plates, one is used for backup (see photos).
141	1031280	Boordy Vineyards	Dec-99	No	None	Mar-03	
142	1031281	Bosley United Methodist Church	Oct-01	No	None; Well currently undergoing a groundwater under the influence test. Also advised to have line checked since it towers under the road area.	Apr-03	Well OK, no tag. Located across the street from church (well also serves residence there).
143	1031283	Catholic Community of St Francis Xavier	Aug-99	No	New facility in good order	Mar-03	2 wells GPS'd both OK. One w/ no tag.
144	1031284	Covenant of Grace Presbyterian Church	Oct-02	No		Apr-03	Well OK.

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145	1031285	Creekside Clipper	Nov-99	Yes	Bacteria: 5 sampling data positive for coliforms/ UV light tube installed; Septic system is very close to the well, Gunpowder Falls; Several positive bacteria results. Requested to install a prior to UV light sampling tap.	May-03	Well OK.
146	1031286	Freeland Kingdom Hall	Nov-99	No	Pit is shallow with concentric well rings covered with a metal manhole cover at the left entrance by parking lot. Septic is in rear area.	May-03	Well underneath concrete cover.
147	1031288	Gunpowder Falls St Pk Hart-Miller Island	Oct-99	Yes	Multiple positive coliform samples in 5/99. Site visit and spoke to Ranger. Well was out of service until it could be inspected.	Apr-03	Well OK.
148	1031290	Hasslingers/ St James Church	Oct-01	No	Well is located under the building of the Parish House in a pit. Cover could not be removed at the time of inspection.	May-03	Well located inside church, in closet. Point GPS'd directly outside. Point GPS'd for general septic area.
149	1031291	Hayes Construction Co Inc	Dec-99	No	2 Wells into same holding tank.	Apr-03	Two wells GPS'd.
150	1031292	Hereford Golf Center	Oct-99	No		May-03	Well OK.
151	1031293	Hunt Valley Presbyterian Church	Oct-01	No		Mar-03	Well was being serviced at the time of visit
152	1031294	Immanuel Baptist Church	Dec-99	No	2 Piece well cap.	Apr-03	Well OK.
153	1031295	Isaiah Baptist Church	Oct-99	No	Area around the well has settled and needs to be filled in.	Apr-03	Well OK, no tag.
154	1031296	Jacksonville Church of God	Dec-99	No		Apr-03	Well OK.
155	1031298	Jehovahs Witness Kingdom Hall	Dec-99	No	System appears well protected. Gould sub pump installed 9/91. 40 gallon storage tank. Omnihouse System Filter.	Mar-03	Well OK.
156	1031299	Knights of Columbus	Dec-99	No		Apr-03	Well OK, no tag.
157	1031300	Long Green Baptist Church	Dec-99	No		Mar-03	Well casing in good condition. No tag.
158	1031301	McInnes & Barron DDS, Pa	Aug-99	No		May-03	Well OK.
159	1031302	Mt Carmel Animal Hospital	Aug-99	No	Drilled well in dog run area. Well treatment and pressure tank in 2nd story utility room.	May-03	Well OK, no tag.
160	1031303	Mt Vista Golf Course	Dec-99	No	No Recommendations.	Mar-03	Well in good condition. Tag is visible. Yard Waste dumping area 250' from well. Well located in lower area than surrounding golf features.
161	1031305	New Antioch Baptist Church	Oct-99	No	System is in good condition.	Apr-03	2 wells GPS'd.
162	1031306	Peters Body Shop Inc	Dec-99	No		Apr-03	Well OK.
163	1031307	Randallstown Animal Hospital	Nov-01	No	No violations were observed.	Apr-03	Well underneath concrete cover. GPS'd "discharge to groundwater" point on property
164	1031308	Reisterstown Veterinary Center	Aug-99	No	Untreated water sampling tap. 50 gal. pressure tank storage facility.	Apr-03	Well OK.
165	1031309	May's General Store (Formerly Ritzmann's Country Store)	Dec-99	No	No problems observed. Untreated water sampling tap.	May-03	Well OK.

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166	1031310	Smoots Collision Center	May-99	No	Coliform bacteria (May 1999). System disinfected and retest performed July 1999 via Martel Labs. Retest results were within acceptable limits.	Apr-03	Two wells; one located underneath manhole cover, one located in office basement.
167	1031311	Spring Meadow Farms / Smokers Catering	Dec-99	No	System Intact. Untreated water sampling tap. 20 gal storage capacity.	Apr-03	Well OK, no tag.
168	1031313	St Stephens Episcopal Church	Sep-99	No	Untreated sampling tap needed. System has a chlorinator with liquid bleach, small pump injects Cl ² into pressure tank.	Mar-03	Well OK, no tag.
169	1031317	Simonds Nursery	Dec-99	No		Apr-03	Well OK.
170	1031318	Ballestone Mansion	Jan-99	No		Apr-03	Well OK. OK - well tag is BA88-1615
171	1031320	Funky Monkey Café (Formerly Gregs Bagel Shop)	Dec-99	No		May-03	Now named "That Funky Monkey Café" Well OK, no tag.
172	1031321	Highs	Oct-99	No		Mar-03	Owner is same as Palisanos; No longer High's, but is office.
173	1031322	Monkton Hotel Professional Bldg	Apr-99	No	New well recently drilled, has no well tag.	Apr-03	Well OK.
174	1031323	Royal Farm Store	Oct-99	No	Could not inspect well cap. No untreated water sampling tap. 150 gal. capacity storage.	Apr-03	Building no longer occupied by Royal Farms; well had no tag.
175	1031324	St Marys Orthodox Church	Dec-99	No	Did not see interior to see system schematic and if there is any type of treatment in the system.	Mar-03	Well OK.
176	1031325	Caesars Empire	Dec-99	No		Mar-03	Well OK, no tag.
177	1031326	Summer Hill Club	Jun-02	No		Apr-03	Well OK, no tag.
178	1031327	Twin Oaks Carryout & General Store	Oct-01	No	None	Apr-03	Well in basement. GPS'd point outside front door. Site formerly a gas station
179	1031328	Long & Fosters (Formerly Coldwell Banker / Grempler Realty)	Dec-99	No		Apr-03	Well OK.
180	1031329	Gunpowder Falls Freeland Ncr Trail	Nov-99	No	None; Frost-Free hydrant?	Mar-03	Tag is visible. Well in good condition.
181	1031330	Cedar Grove United Methodist Church	Oct-99	No		May-03	Well OK, no tag.
182	1031331	Camp Milldale Pearlstone Retreat	Oct-01	No	None	Apr-03	2 wells GPS'd. both tagged, both OK
183	1031332	Papa Johns Pizza	Oct-02	No		Apr-03	Well OK.
184	1031333	Prices Groceries & Spirits	Apr-00	No	Unable to inspect well cap--Well on hill--No ladder on steps. Septic tank cover in need of repair. Well cap to be inspected once ladder is available.	Apr-03	Well OK, no tag.
185	1031334	Pulaski Flea Market/Winners Corner Cafe	Dec-99	No	Untreated water sampling tap.	Mar-03	Well OK, no tag.
186	1031335	Camp Milldale Junior Camp	Nov-99	No	Four wells serve this large camp.	Apr-03	Well OK, no tag.
187	1031336	Camp Milldale Sports Arena	Nov-99	No		Apr-03	Well OK, no tag.
188	1031337	Camp Milldale Pool Area	Nov-99	No		Apr-03	Well OK, no tag..

Table 11 Summary of Sanitary Survey and Site Visit Observations for Transient Public Water Systems

No.	PWSID	PWS NAME	Date Of Most Recent Sanitary Survey Reviewed	Deficiency Noted?	Sanitary Survey Deficiency Explanation / Comments	Date Of SWAP Visit	SWAP Field Notes
189	1031339	Morris Meadows West Side Campground	Dec-99	No	Appears OK	May-03	Well OK.
190	1031340	Morris Meadows Camp Site B-5	Dec-99	No	Well In Pit. Could Not Inspect.	May-03	Well underneath steel plate.
191	1031341	Morris Meadows Pool/Snack Bar	Dec-99	No	Appears OK	May-03	Well OK.
192	1031342	Morris Meadows Tennis Courts	Dec-99	No	Appears OK	May-03	Well OK.
193	1031343	Morris Meadows Over The Hill Campsites	Dec-99	No	Appears OK	May-03	Well OK.
194	1031344	Morris Meadows Lower Laundry	Dec-99	No	Appears OK. Untreated water sampling tap. One piece well cap.	May-03	Well OK, no tag.
195	1031345	Hereford Seafood (Formerly Bay Gourmet)		Yes	Septic system is very elaborate including 2 grease interceptors and a holding tank for only vrab run-off. 5/16/00-Total Coliform And E.Coli Present.	Jun-03	Now named "Hereford Seafood." Well OK.
196	1031346	Fork Citgo	Oct-01	No	Site visit reports that there is a 1 piece cap. No conduit wires exposed	Mar-03	Well in poor condition, close to dilapidated above ground storage tanks.
197	1031348	Morris Meadows - Maintenance Shed	Dec-99	No	No deficiency marked. The well casing had a minor crack and a small hole drilled in it.	May-03	Well OK.
198	1031350	St Pauls Lutheran Church	Dec-00	No	None;No one available at church during survey. Completed survey of exterior	Apr-03	Well underneath concrete cover.
199	1031351	Sparks Full Service Station	Jun-02	No	None.	Apr-03	Well OK.
200	1031352	Figaro's	Jun-02	No		May-03	Well OK, no tag.

APPENDIX A

Appendix A

Maps of Source Water Assessment Areas

APPENDIX B

Appendix B

Photographs of Sources (Well Heads)
