Final

Source Water Assessment

for the

Town of Accident Water System

Garrett County, Maryland

Prepared for:

Maryland Department of the Environment
Water Management Administration
Water Supply Program
1800 Washington Boulevard, Suite 625
Baltimore, Maryland 21230-1719

Prepared by:

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February 2004

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LIST OF ACRONYMS AND ABBREVIATIONS

AST	Aboveground Storage Tank
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Act Information System
CHS	Controlled Hazardous Substances
COMAR	Code of Maryland Regulations
DWEL	Drinking Water Equivalent Level
ft	Foot/Feet
gpd	Gallon(s) Per Day
gpm	Gallon(s) Per Minute
GPS	Global Positioning System
GWUDI	Ground Water Under the Direct Influence
in.	Inch(es)
IOC	Inorganic Compound
LUST	Leaking Underground Storage Tank
MCL	Maximum Contaminant Level
MDE	Maryland Department of the Environment
mg/L	Milligram(s) Per Liter
MGS	Maryland Geological Survey
mL	Milliliter(s)
pCi/L	Picocurie(s) Per Liter
PWSID	Public Water System Identification
SDWA	Safe Drinking Water Act
SDWR	Secondary Drinking Water Regulations
SOC	Synthetic Organic Compound
SWAP	Source Water Assessment Plan
SWPA	Source Water Protection Area
SWPP	Source Water Protection Plan
µg/L	Microgram(s) Per Liter
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound
WHPA	Well Head Protection Area

EXECUTIVE SUMMARY

EA Engineering, Science, and Technology was tasked to perform a Source Water Assessment for the Town of Accident water system in Garrett County, Maryland. The Maryland Department of the Environment (MDE) identifies this water system as Public Water System Identification (PWSID) 0110001. EA has performed this study under Purchase Order No. U00P9200205, as authorized by MDE.

The required components of this report, as described in Maryland's Source Water Assessment Plan (SWAP), are:

- Delineation of the area that contributes water to the source
- Identification of potential sources of contamination
- Determination of the susceptibility of the water supply to contamination
- Recommendations for protecting the drinking water supply

The source of the Town of Accident water supply is the Hampshire Formation, which is an unconfined, sandy-shale aquifer. The Source Water Protection Area (SWPA) for the two ground-water supply wells was delineated using the watershed delineation method for fractured bedrock wells. The SWPA is based on land topography, nearby streams, and a calculation of the total ground-water contributing area during a drought. The SWPA is approximately 184 acres and is irregular in shape.

Potential point and non-point sources of contamination within the assessment area were identified based on site visits, a review of MDE databases, and a review of sewer service area and land use maps. Point sources within the SWPA include an automobile dealership, and a gas station with underground storage tanks (USTs). Pastures, forests, commercial, and residential areas were observed within the SWPA. Pastures, commercial areas, and residential areas account for over 80 percent of the SWPA and can be considered non-point sources of contaminants. Well information and water quality data were also reviewed.

The susceptibility analysis for the Town of Accident water supply is based on a review of the water quality data, potential sources of contamination, aquifer characteristics, and well integrity. It was determined that the Town of Accident's water supply is highly susceptible to radon-222, has a moderate susceptibility to volatile organic compounds, and has a low susceptibility to synthetic organic compounds, inorganic compounds, other radionuclides, and microbiological contamination.

Recommendations to protect the ground-water supply include creating a SWPA team, resident awareness, following ground-water monitoring requirements, and communication with County officials about future planning and land use.

1. INTRODUCTION

EA Engineering, Science, and Technology was tasked to perform a Source Water Assessment for the Town of Accident water system in Garrett County, Maryland. EA has performed this study under Purchase Order No. U00P3200205, as authorized by the Maryland Department of the Environment (MDE).

The Town of Accident's system serves the residents of Accident in Garrett County. The water treatment plant and two supply wells for the system is located within the Town of Accident (Figure 1). The South Street well is on the southern end of Town, off Route 219. The Bittinger Well is east/southeast of the center of Accident, off Accident-Bittinger Road. The Town of Accident system serves a population of 300 with 132 connections.

1.1 GROUND-WATER SUPPLY SYSTEM INFORMATION

From a review of the well data and sanitary surveys of the system, the South Street Well was drilled on 19 September 1972. No information was available on the construction date of the Bittinger Well. Both wellheads were enclosed in a concrete well house, which also housed a water treatment plant. Both wellheads were in good condition with secure caps. The system yields an average of 55,000 gallons per day (gpd). Table 1 contains a summary of the well construction data.

TABLE 1. WELL INFORMATION

Source ID	Source Name	Permit No.	Total Depth (ft)	Casing Depth (ft)	Aquifer
01	SOUTH STREET WELL	GA720257	300	59	Hampshire Formation
02	BITTINGER WELL	GA720376	300	57	Hampshire Formation

According to the Town of Accident Inspection Report, there is an additional, unused well for this system. It was not observed during the site visit, and it is unknown if this well is properly abandoned.

According to MDE, the point of contact for this system is Richard Carlson, the present Mayor of Accident. The operator/superintendent for the Town of Accident system is Allen Festerman (OT-4, ST-4).

Presently, both wells use gaseous chlorine for disinfection, while soda ash is added to the ground water from the South Street well to adjust pH.

1.2 HYDROGEOLOGY

Garrett County lies entirely within the Appalachian Plateau physiographic province, and is the westernmost county in Maryland. Pleistocene terraces and recent flood plains found along the larger streams and consolidated sedimentary rocks of the mid-Paleozoic (Devonian, Mississippian, and Pennsylvanian age) dominate the surface and subsurface geology.

The Mid-Paleozoic units are folded into broad anticlines and synclines that trend northeast-southwest. The anticlinal structures are underlain by Devonian rocks and contain three distinct gas fields. The synclinal structures form the coal basins of the region and are underlain by Pennsylvanian rocks.

The ground water used by the Town of Accident system is from production wells drilled in the Paleozoic (Upper Devonian age) Hampshire Formation. The rocks of Devonian age consist of sandy shale, shale, siltstone, and thin-bedded sandstone. The Devonian rocks in general have a lower percentage of sandy units than the Mississippian and Pennsylvanian rock. The Hampshire Formation is a "brown and green sandy shale with shale, thin-bedded sandstone and red beds." This is an important water-bearing unit in the Deer Park and Accident anticlines [Maryland Geological Survey (MGS) 1980].

The source of ground water in Garrett County is from the infiltration of rainfall or snowmelt. The availability of ground water in the predominantly sedimentary bedrock depends on the lithology of the rock, the permeability of the substrate, and the presence or absence of secondary openings from fracturing and weathering. The well yields of the Hampshire Formation, from 165 wells, are 1 to 60 gallons per minute (gpm), with an average yield of 8 gpm (MGS 1980).

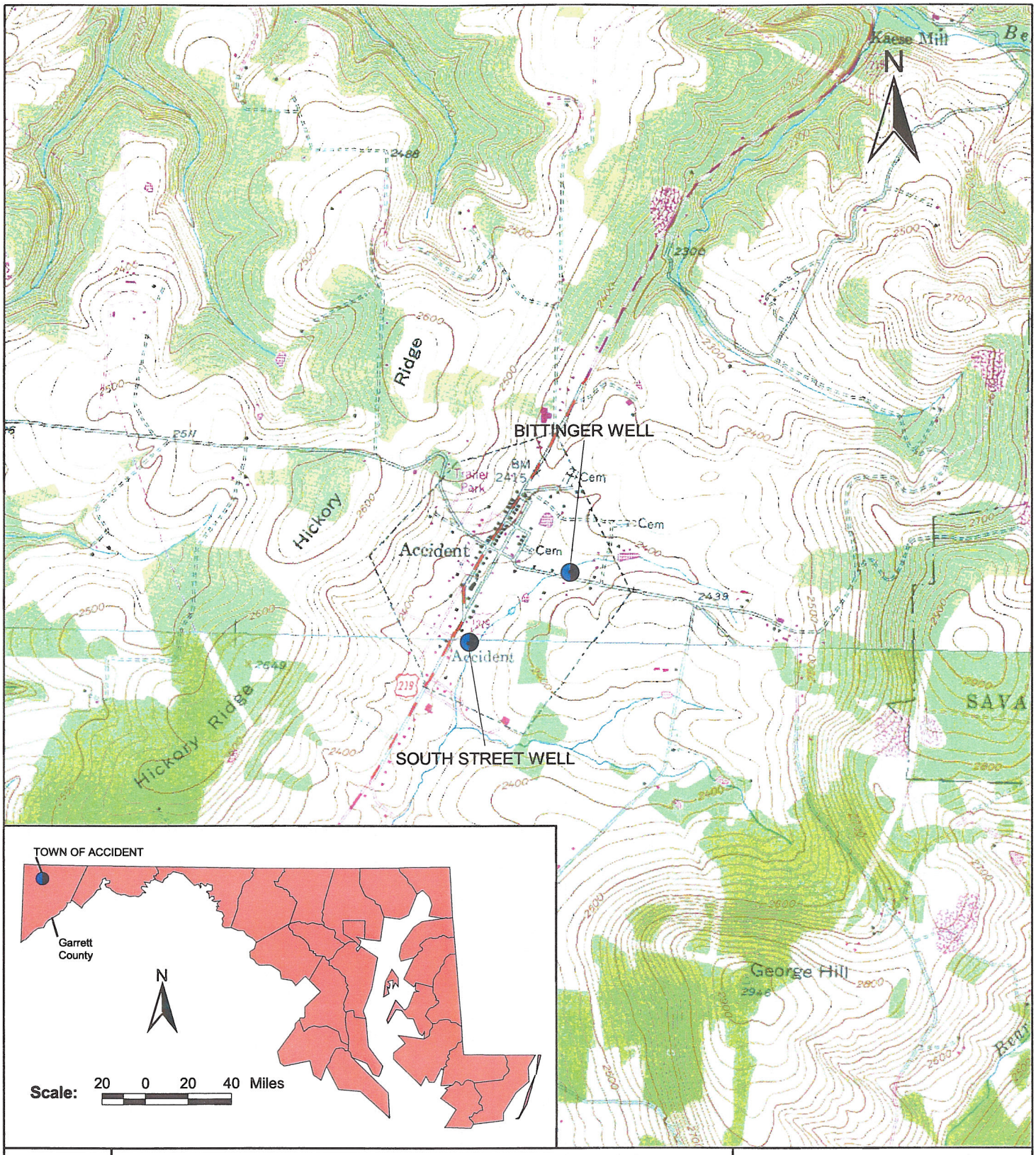


Figure 1. Town of Accident
Location Map of Supply Wells

Source Water Assessment Program
2003

Legend:

Supply Well

Source: United States Geologic Survey. 1947 (photorevised 1981). *7.5-minute Series Topographic Map for Accident, Maryland-Pennsylvania.*

United States Geologic Survey. 1947 (photorevised 1981). *7.5-minute Series Topographic Map for McHenry, Maryland.*

Scale:

1000 0 1000 2000 Feet

2. DELINEATION OF THE AREA CONTRIBUTING WATER TO SOURCE

For ground-water systems, a wellhead protection area (WHPA) is considered to be the source water protection area (SWPA) for the system. Consistent with the recommended delineation in the Maryland Source Water Assessment Plan (SWAP) (MDE 1999), the watershed drainage area that contributes ground water to the supply wells methodology was used.

This original delineation shape was then modified by accounting for surface water bodies, topography, significant land features, and by using a conservative calculation of total ground-water recharge during a drought. For conservative purposes, a drought condition recharge value of 400 gpd per acre (or approximately 5.4 in. per year) was used to estimate the total ground-water contribution area required to supply the well.

For the Town of Accident, the current Water Appropriation Permit issued by the MDE Water Rights Division is for an average withdrawal of 55,000 gpd. To determine the total ground-water contribution area during a drought, the following equation was used:

Recharge Area (acre) = Average Use (gpd)/Drought Condition Recharge (gpd/acre)

From the equation above, the total ground-water contributing area during a drought is approximately 138 acres. The delineated SWPA is approximately 184 acres (Figure 2) and is therefore adequate to meet the average daily ground-water usage during a drought.

3. INVENTORY OF POTENTIAL CONTAMINANTS WITHIN THE DELINEATED AREA

A field survey was performed on 11 December 2002 to confirm potential sources of contamination identified in MDE and United States Environmental Protection Agency (USEPA) databases around the ground-water wells. These databases include the Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS), which includes National Priorities List (Superfund) sites, Maryland Registered Underground Storage Tank (UST) sites, Maryland Leaking Underground Storage Tank (LUST) sites, landfills, pesticide dealers, ground-water discharge permits, and Controlled Hazardous Substances (CHS) generator sites.

During the field survey, other sources of potential contamination not in the USEPA or Maryland databases were noted and the location was surveyed using a global positioning system (GPS) receiver for mapping purposes (Figure 2).

3.1 POINT SOURCES

Accident-Garage (Jeep-Chrysler-Dodge Auto Sales) is approximately 1,000 ft due north of the South Street well, GA720257. This facility maintains a garage for servicing automobiles. Many compounds used by mechanics contain volatile organic compounds (VOCs) and/or synthetic organic compounds (SOCs). If these compounds are not disposed, or recovered properly, the VOCs and SOCs could eventually reach the unconfined aquifer by leaching through the soil overburden.

Accident Amoco is a gasoline station with USTs. Failure of a UST could impact the ground water with petroleum hydrocarbons.

In addition to the above-stated point sources of contamination within the SWPA, the Texas Eastern-Accident Station, which is classified as a CERCLA site, is located northwest of the delineation area. This site is not currently on the National Priorities List (NPL) but has been put on the CERCLIS due to the presence of excessive dioxins. Reportedly, only a preliminary assessment has been conducted at the site with no remedial actions planned for the near future. Texas Eastern also has a UST on-site for gasoline. This tank is not listed as an LUST; however, the potential remains for the release of petroleum hydrocarbons from failure of the UST. Also, to the southeast of the SWPA is the Texas Eastern Accident Field. This site is a CHS generator. MDE has identified this site as a possible source of contamination to ground-water aquifers.

Approximately a quarter mile northwest of the Bittinger Well is a UST for heating oil at the Zion Lutheran Church. Failure of the UST could impact the ground-water aquifer with petroleum hydrocarbons.

W.H. Frantz Inc. is an abandoned automobile dealership approximately 1,000 ft due east of the SWPA. This site had an old above ground storage tank (AST) and several rusted 55-gallon drums with unknown contents on-site. If the containers were to fail, they could impact the ground water if they contain hazardous materials.

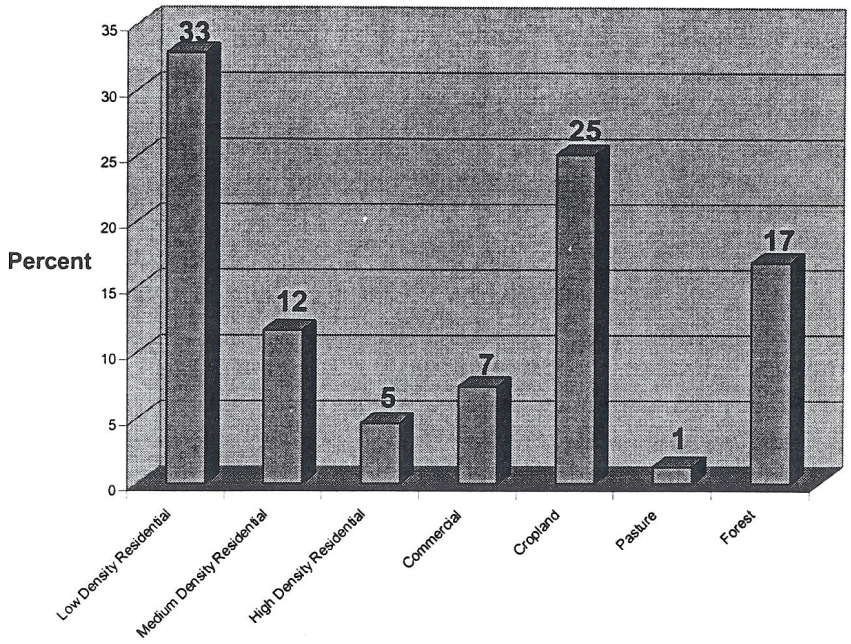
3.2 NON-POINT SOURCES

Using the Maryland Office of Planning's 2000 Land Use/Land Cover map for Garrett County, potential non-point sources within the SWPA were also evaluated by land use designation (Figure 3). A summary of the percent and acreage of each type of land use is presented in the graphs on the next page.

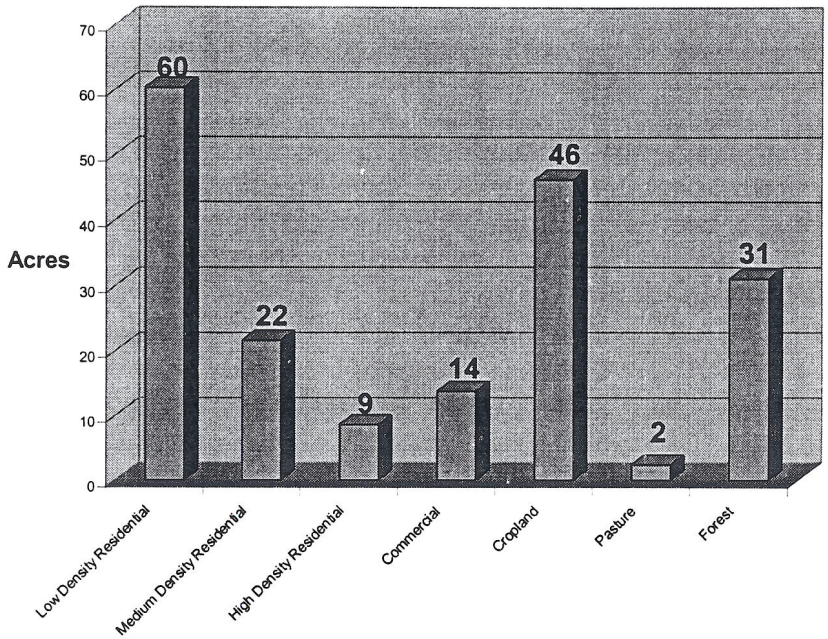
From an interpretation of the graphs, residential areas (91 acres) and cropland (46 acres) account for the majority of the SWPA (183.5 acres). Pollution associated with low-density residential areas includes septic discharge that can contain excess nitrates and other inorganic compounds, and petroleum hydrocarbons from heating oil tanks. However, a majority of the SWPA has public sewer service and is unlikely to utilize septic systems. The use of fertilizers and pesticides in croplands is common. Therefore, there is potential for the migration of potential contaminants into the ground water.

Using the 1993 Maryland Office of Planning's Garrett County sewerage coverage, potential non-point sources from other septic system users in the SWPA were assessed (Figure 4). By overlaying the SWPA on the sewerage coverage layer in ArcView GIS, it was determined that 38 percent of the SWPA does not have public sewer service and is not planned for service for at least 10 years. The remaining 64 percent has existing sewer service or is currently under construction.

PERCENTAGE OF EACH LAND USE TYPE



ACREAGE OF EACH LAND USE TYPE



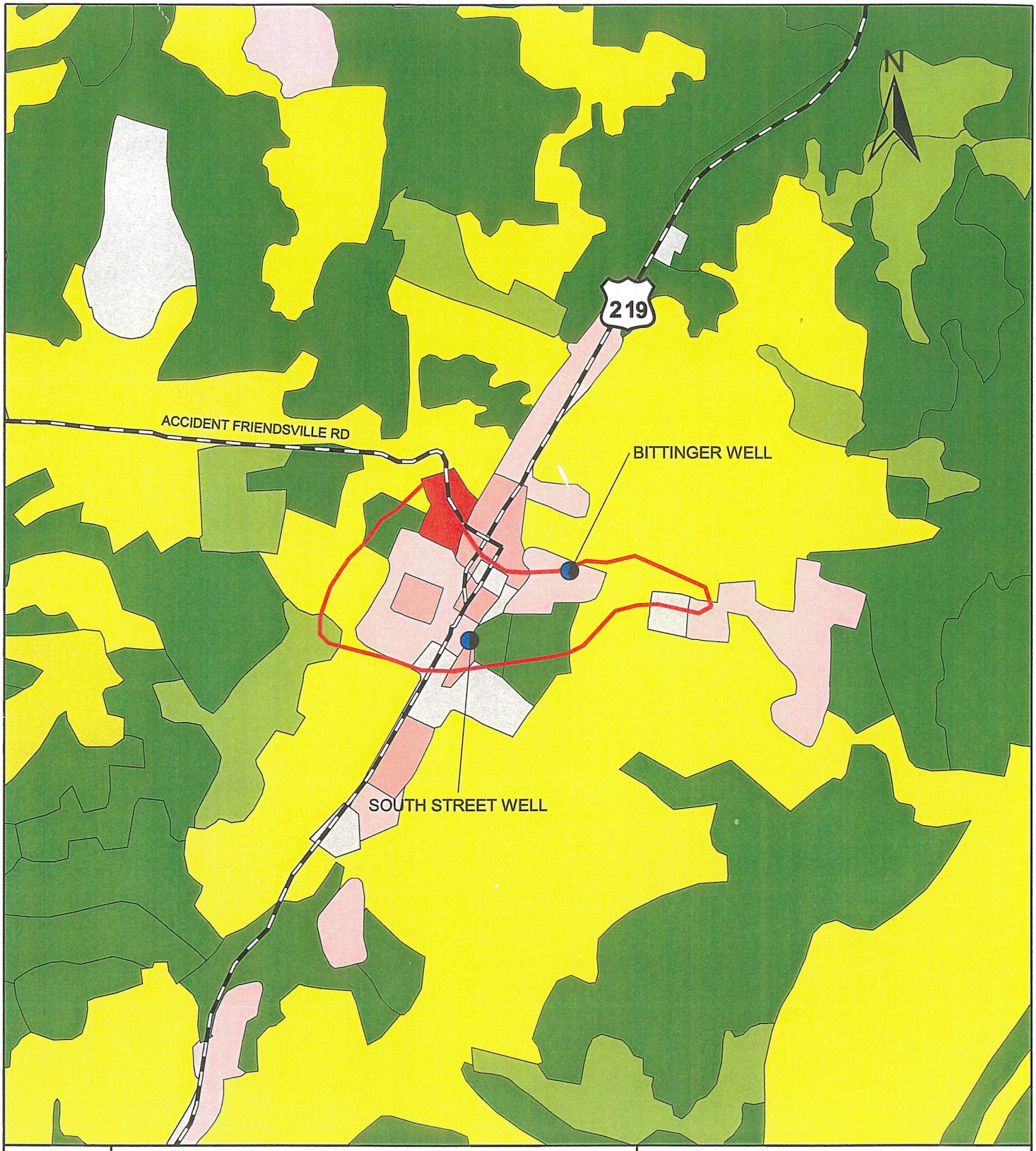


Figure 3. Town of Accident Land Use Map of the Source Water Protection Area

Source Water Assessment Program
2003

Scale: 2000 0 2000 Feet

Source: Maryland Office of Planning, 2000.

Legend:

- Supply Well
- SWPA Boundary
- Major Roads

Land Use

- Low Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Cropland
- Pasture
- Orchards
- Forest

4. REVIEW OF WATER QUALITY DATA

Water quality data was obtained from the MDE Water Supply Program database of Safe Drinking Water Act (SDWA) contaminants. The reported results are for finished (treated) ground water (unless noted).

A review of the water quality data from 1991-2002 has been performed for the Town of Accident's finished water samples. Results of ground-water sample analyses are shown in Appendix A.

Ground-water analytical results were compared to 50 percent of the USEPA Maximum Contaminant Levels (MCLs) or the USEPA Secondary Drinking Water Regulations (SDWR). If no MCL or SDWR was available, the Drinking Water Equivalent Level (DWEL) was substituted as recommended by the USEPA Office of Water.

4.1 GENERAL WATER QUALITY PARAMETERS

No general water quality parameters were reported in the ground-water samples at concentrations greater than 50 percent of the comparison criteria.

Two ground-water samples for pH were collected on 9 November 1994 and 23 June 1997, and were reported with pH values of 7.7 and 6.5, respectively. Both are within the normal SDWR range of 6.5 to 8.5.

4.2 VOLATILE ORGANIC COMPOUNDS

No VOCs were reported in ground-samples at concentrations greater than 50 percent of the comparison criteria.

Methylene chloride (2 µg/L) was reported in the ground-water sample collected on 14 February 1991. Methylene chloride has a USEPA MCL of 5 µg/L. No samples since 1991 have been reported to contain this compound.

The disinfection by-products bromodichloromethane, chloroform, and dibromochloromethane (commonly known as trihalomethanes) were also reported in the water samples and ranged in concentration from 0.6 to 3.3 µg/L. The current MCL for all trihalomethanes is 100 µg/L; however, the MCL will be lowered to 80 µg/L in January 2004.

4.3 SYNTHETIC ORGANIC COMPOUNDS

No SOCs were reported in the ground-water samples.

4.4 INORGANIC COMPOUNDS

No inorganic compounds (IOCs) were reported in ground-water samples at concentrations greater than 50 percent of the comparison criteria.

Low levels of nitrate were consistently reported in ground-water samples collected between 24 November 1994 and 8 January 2002 with concentrations between 0.78 and 3.2 mg/L, which is below the MCL of 10 mg/L.

Barium was reported in ground-water samples collected on 17 April 1995, 14 March 1996, 17 November 1999, and 30 August 2000. Samples ranged from 0.131 to 0.36 mg/L, which is less than the MCL of 2 mg/L.

Fluoride (0.2 mg/L) was detected in two ground-water samples collected on 27 October 1998 below the MCL of 4.0 mg/L.

Low-level concentrations of sodium were detected in ground-water samples collected on 9 December 1997 (27.6 mg/L) and 17 November 1999 (16 mg/L). The recommended range for sodium in drinking water is 30 to 60 mg/L.

Sulfate was detected in two ground-water samples collected on 17 April 1995. The reported concentrations were 14 and 17.4 mg/L, and were less than the SDWR of 250 mg/L.

Selenium (0.002 mg/L) was detected in a ground-water sample collected on 30 August 2000 at a concentration less than the MCL of 0.05 mg/L.

Arsenic (0.008 mg/L) was detected in the ground-water sample collected on 30 August 2000 and the concentration is less than the current MCL of 0.05 mg/L and and the future MCL of 0.01 mg/L, which will be effective in January 2006.

4.5 MICROBIOLOGICAL CONTAMINANTS

No total or fecal coliform has been detected in samples of the water system finished water from January 1997 to July 2002.

4.5.1 Ground Water Under the Direct Influence (GWUDI)

Surface water that directly recharges the aquifer through major fractures in rock does not pass through the soil overburden that both filters and contains beneficial microorganisms that break down contaminants. If significant variances in the ground-water sample results from dry and storm conditions are observed, it is possible that the ground water is under the direct influence of surface water.

To assess the potential of Ground Water Under the Direct Influence (GWUDI) of surface water, ground-water sampling records (during dry and storm conditions) in MDE databases were assessed and information from Public Water Reports was reviewed.

A ground-water sample collected on 9 December 1998 from the South Street Well was reported to contain 4.2 organisms/mL of total coliforms and no fecal coliforms. The samples from the Bittinger Well did not have detectable concentrations of total coliforms or fecal coliforms.

4.6 RADIONUCLIDES

Radon-222 was reported at concentration greater than 50 percent of the more conservative proposed MCL [300 picocuries per liter (pCi/L)] in ground-water samples collected between 9 November 1994 and 17 November 1999. A summary of all radon-222 concentrations in the ground-water samples collected is shown in Table 2.

TABLE 2. SUMMARY OF RADON-222 ANALYSIS

Plant ID	Sample Date	Contaminant	Result	Unit
02	11/17/99	Radon-222	735	pCi/L
01	11/9/94	Radon-222	1,545	pCi/L
01	6/23/97	Radon-222	2,170	pCi/L

Note: Shaded values are greater than the more conservative proposed MCL.

Gross alpha was detected in ground-water samples collected on 4 October 1995 (1.8 pCi/L) and 17 November 1991 (4 pCi/L) and was less than the MCL of 15 pCi/L.

Also, gross beta was detected in samples collected between 4 October 1995 and 17 November 1999. The samples ranged from 2 to 6 pCi/L, which is less than the USEPA MCL of 50 pCi/L.

5. SUSCEPTIBILITY ANALYSIS

To evaluate the integrity of the ground-water source, the following criteria were used to conduct the susceptibility analysis:

1. Available water quality data
2. Presence of potential contaminant sources in the SWPA
3. Aquifer characteristics
4. Well integrity
5. Likelihood of change to the natural conditions

The wells that are used to supply drinking water to the Town of Accident are screened in an unconfined aquifer. In general, unconfined aquifers are more susceptible to contamination from surface activities than confined aquifers. However, the aquifers utilized by the systems are overlain by soil overburden, which serve as a natural microbiological and chemical filter for contaminants. According to the Soil Survey of Garrett County, Maryland [U.S. Department of Agriculture (USDA) 1974], the soils in Garrett County are generally stoney to silty loams, which both generally have a high organic carbon content. Depending on the physical properties of the contaminant, the depth of the overburden, and the size of the spill, contaminants could partition to the organic carbon in the soil before reaching the ground-water aquifer. In addition, naturally occurring microorganisms in the soil can also degrade some contaminants such as benzene and trichloroethene (TCE) to produce energy.

For the Susceptibility Analysis in this report, rankings of "high," "moderate," and "low" susceptibility to contamination were utilized after a review of current information. However, other SWAP reports for the State of Maryland also utilized rankings of "is," "may be," and "is not" susceptible to contamination. For consistency between the ranking systems, the following details their equivalence. The ranking of "highly susceptible" is equivalent to "is susceptible," "moderately susceptible" is equivalent to "may be susceptible," and "low susceptibility" is equivalent to "is not susceptible."

5.1 VOLATILE ORGANIC COMPOUNDS

No VOCs were reported at concentrations greater than 50 percent of the MCL.

The trihalomethanes reported in the water samples are likely by-products of the chlorination process to kill waterborne bacteria. The reported concentrations were well less than the MCL of 100 µg/L or the future MCL of 80 µg/L.

Methylene chloride (also known as dichloromethane) was reported in a water sample from February 1991. Methylene chloride is a common laboratory cross-contaminant and is not likely present in the ground water.

Several point sources for VOCs (including a car dealership, USTs, and an AST) are present within, and adjacent to, the SWPA. A release from these sources could contaminate the ground-water aquifers with petroleum hydrocarbons and other VOC contaminants.

From a review of well construction information, there is approximately 30 to 40 ft of overburden above the bedrock aquifer. This overburden can buffer the aquifer from contaminant spills.

Based on the water quality reviewed, the presence of numerous potential point sources within and adjacent to the SWPA, the commercial land use in the SWPA, and the nature of VOCs in a shallow, unconfined aquifer, the water supply for the Town of Accident is moderately susceptible to VOC contamination.

5.2 SYNTHETIC ORGANIC COMPOUNDS

No SOCs were detected in the water samples from this system.

Most SOCs are not readily dissolved in water and have a high affinity to sorb to soil particles. From well construction data for the Town of Accident, there is at least 30 ft of soil overburden for each well that will buffer the aquifer from SOC contamination from the surface.

Pesticides and herbicides are often used in residential areas, which account for 50 percent of the SWPA; however, no SOCs were reported in the ground-water samples analyzed.

Based on the water quality reviewed and the lack of potential point sources of SOCs, the water supply for the Town of Accident has a low susceptibility to SOC contamination.

5.3 INORGANIC COMPOUNDS

No IOCs were reported at concentrations greater than 50 percent of the comparison criteria in any of the water samples analyzed.

Approximately 38 percent of the SWPA is not served by public sanitary sewer systems. Septic systems were observed within the SWPA and are a possible source of nitrate in ground water. However, no concentrations of nitrate have been reported greater than 3.2 mg/L. No trends in the reported nitrate concentrations in the water samples have been observed over time.

Arsenic (0.008 mg/L) was detected in a single water sample collected from Plant 1 in August 2000. Currently, the MCL is 0.05 mg/L, but beginning in 2006, the MCL will drop to 0.01 mg/L. This sample is less than both the pre-and post-change MCL. Arsenic was not detected from available sampling results for Plant 2 and was not detected in the previous two samples from Plant 1. Arsenic is typically discharged as a constituent of pesticides and herbicides or metal wastes and can be naturally occurring.

Low concentrations of selenium (0.002 mg/L) were detected in samples from August 2000 and are less than the MCL (0.05 mg/L). This element is typically leached from naturally occurring deposits in subsurface rock or soil.

Sodium, sulfate, and fluoride were detected and are within the Garrett County general water quality parameters (MGS 1980). These compounds are also less than their respective SDWR.

Residential areas and croplands throughout the SWPA do not appear to be contributing IOCs to the ground water based on the reviewed water quality data. Based on the water quality and the lack of point sources of IOCs, the water supply for the Town of Accident has a low susceptibility to IOC contamination.

5.4 RADIONUCLIDES

Radon-222 was reported at concentrations greater than the more conservative proposed MCL in water samples collected November 1994 and 1999, and June1997.

Radon-222 is typically produced as a by-product of the radioactive decay of minerals such as uranium in the subsurface rock aquifer. The MCLs are currently not enforceable and MDE is awaiting USEPA's final rule to determine how radon will be regulated for public water systems (USEPA 1999).

Also, low-level concentrations of both gross alpha and gross beta were reported in water samples. Both concentrations were less than the respective MCLs.

Based on the reviewed water quality data and the excessive amount of radon-222, the water supply for the Town of Accident is highly susceptible to radon-222 and has a low susceptibility to other radionuclides.

5.5 MICROBIOLOGICAL CONTAMINANTS

No total or fecal coliforms were reported in finished water samples from this system.

Total coliforms were reported in a GWUDI sample collected in December 1998 from the South Street Well. No further samples had detectable concentrations of coliforms, and none were detected from the Bittinger Well. MDE has determined that both supply wells are not GWUDI.

From documentation reviewed, the South Street Well was constructed prior to 1973, the year that well construction standards were implemented. If constructed improperly, surface water contaminants can migrate along or within the casing and impact the aquifer. The wellheads were observed to be in good repair and were within concrete wellhouses, which should prevent surface water infiltration.

The unused well for this system may or may not be abandoned. If not properly sealed and abandoned, the well casing can be a pathway for contaminants in surface water runoff to impact the bedrock aquifer.

Based on a review of water quality data, the GWUDI status determined by MDE, the construction information, and the protective wellhouse structures, the water supply for the Town of Accident has a low susceptibility to microbiological contamination.

6. RECOMMENDATIONS FOR PROTECTING THE WATER SUPPLY

With the information contained in this report, the Town of Accident has a basis for better understanding of the risks to its drinking water supply. Being aware of the SWPA, knowing potential contaminant sources, evaluating current and future development, working with agricultural producers and soil conservation agencies, and effective outreach and education are examples of management practices that will help protect the water supply.

Recommendations for the protection of the ground-water supply are intended for the water supplier and its residents. Specific management recommendations for consideration are listed below.

6.1 PROTECTION TEAM

The team should represent all the interests in the community, such as water suppliers, community associations officers, the County Health Department, local planning agencies, local businesses, developers, property owners, and residents within and near the SWPAs. The team should work to reach a consensus on how to protect the water supply.

6.2 PUBLIC AWARENESS AND OUTREACH

The water supplier should consider discussing with property owners and businesses located within the SWPA the activities that could have impacts to the ground water and its quality.

The water supplier should also consider sending pamphlets, flyers, or bill stuffers to its residents to educate them about the SWPA. An example pamphlet, "Gardening in a Wellhead Protection Area," is available from MDE. The residents should also be encouraged to notify the water supplier of any significant spills from gasoline or any other potentially hazardous substances.

Placing signs at the SWPA boundaries is an effective way to make the public aware of protecting their source of water supply, and to help in the event of spill notification and response.

The Executive Summary of this report should be listed in the Consumer Confidence Report for the water system, and should also indicate that the report is available to the general public by contacting the water supplier, the local library, or MDE.

6.3 PLANNING/NEW DEVELOPMENT

The water supplier should also inform the Garrett County Health and Planning Department of any concerns about future development or zoning changes for properties that are within the SWPA.

6.4 MONITORING

The water supplier should continue to monitor the ground water for all SDWA contaminants as required by MDE.

Annual raw water sampling at each well for microbiological contaminants is a good way to check the integrity of each well.

Additional sampling for radiological contaminants (specifically radon-222) should be performed to monitor and document levels until USEPA determines how radionuclides will be regulated in public water supplies.

6.5 CONTINGENCY PLAN

As required by the Code of Maryland Regulations (COMAR) 26.04.01.22, all water system owners are required to prepare and submit for approval a plan to provide safe drinking water under emergency conditions.

The water supplier should develop a Spill Contingency Plan. Quick and effective spill response in the event of accidental spills or leaks is an important element in the water supplier's SWPP. This plan should identify the procedures and resources to be used to mitigate any discharge of oil or hazardous substances in the SWPA. It should also establish responsibilities, duties, procedures, and resource containment, mitigation, and cleanup of accidental discharges of oil and hazardous substances that may occur within the SWPA. In all cases when spills may present a significant risk of contamination to ground water within the SWPA the local fire department should be notified of the incident.

6.6 CHANGES IN USES

The water supplier is required to inform the Water Supply Program at MDE of any changes to pumping rates and when a change in the number of wells used is anticipated. Any changes to the pumping rate and/or the number of supply wells will affect the size and shape of the SWPA.

6.7 CONTAMINANT SOURCE INVENTORY UPDATES/INSPECTIONS

The water supplier should conduct its own survey of the SWPA to ensure that there are no additional potential sources of contamination.

A regular inspection and maintenance program of the supply wells should be considered to prevent a failure in the integrity of the well, which could provide a pathway for contaminants to the aquifer.

6.8 PURCHASE CONSERVATION EASEMENTS OR PROPERTY

Loans are available for the purchase of property or for the purchase of easements for protection of the water supply. Eligible property must lie within the designated SWPA. Loans are currently offered at zero percent interest and zero points. Please contact the Water Supply Program of the MDE for more information.

7. REFERENCES

The following sources of information were consulted as a part of this investigation:

1. Maryland Geological Survey (MGS). 1980. *Garrett County Water-Well Records, Chemical-Quality Data, Ground-Water Use, Coal Test-Hole Data and Surface-Water Data*. 102 pp.

2. United States Department of Agriculture Soil Conservation Service. 1974. Soil Survey of Garrett County, Maryland. Washington, D.C.

3. Maryland Department of the Environment (MDE), Water Supply Program. 1999. *Maryland's Source Water Assessment Plan*. 36 pp.

4. United States Environmental Protection Agency (USEPA). 1999. *Proposed Radon in Drinking Water Rule*. EPA 815-F-99-006. USEPA Office of Water.

SOURCES OF DATA

Water Appropriation and Use Database
Public Water Supply Inspection Reports
Monitoring Reports
MDE Water Supply Program Oracle Database
MDE Waste Management Sites Database
Maryland Office of Planning 2000 Garrett County Land Use Map
Maryland Office of Planning 1993 Garrett County Sewer Service Map
USGS Topographic 7.5-minute Quadrangle Map – 1947 Accident, Maryland Quad
USGS Topographic 7.5-minute Quadrangle Map – 1947 McHenry, Maryland Quad

Appendix A

Summary of Town of Accident Water Sample Analysis

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
01	2/14/1991	1,1,1,2-TETRACHLOROETHANE	--	
02	2/14/1991	1,1,1,2-TETRACHLOROETHANE	--	
01	1/17/1995	1,1,1,2-TETRACHLOROETHANE	--	
02	9/26/1995	1,1,1,2-TETRACHLOROETHANE	--	
01	3/14/1996	1,1,1,2-TETRACHLOROETHANE	--	
02	3/14/1996	1,1,1,2-TETRACHLOROETHANE	--	
01	6/23/1997	1,1,1,2-TETRACHLOROETHANE	--	
02	7/30/1997	1,1,1,2-TETRACHLOROETHANE	--	
01	5/22/1998	1,1,1,2-TETRACHLOROETHANE	--	
02	5/22/1998	1,1,1,2-TETRACHLOROETHANE	--	
02	11/17/1999	1,1,1,2-TETRACHLOROETHANE	--	
01	12/9/1999	1,1,1,2-TETRACHLOROETHANE	--	
01	2/14/1991	1,1,1-TRICHLOROETHANE	--	
02	2/14/1991	1,1,1-TRICHLOROETHANE	--	
01	1/17/1995	1,1,1-TRICHLOROETHANE	--	
02	9/26/1995	1,1,1-TRICHLOROETHANE	--	
01	3/14/1996	1,1,1-TRICHLOROETHANE	--	
02	3/14/1996	1,1,1-TRICHLOROETHANE	--	
01	6/23/1997	1,1,1-TRICHLOROETHANE	--	
02	7/30/1997	1,1,1-TRICHLOROETHANE	--	
01	5/22/1998	1,1,1-TRICHLOROETHANE	--	
02	5/22/1998	1,1,1-TRICHLOROETHANE	--	
02	11/17/1999	1,1,1-TRICHLOROETHANE	--	
01	12/9/1999	1,1,1-TRICHLOROETHANE	--	
01	2/14/1991	1,1,2,2-TETRACHLOROETHANE	--	
02	2/14/1991	1,1,2,2-TETRACHLOROETHANE	--	
01	1/17/1995	1,1,2,2-TETRACHLOROETHANE	--	
02	9/26/1995	1,1,2,2-TETRACHLOROETHANE	--	
01	3/14/1996	1,1,2,2-TETRACHLOROETHANE	--	
02	3/14/1996	1,1,2,2-TETRACHLOROETHANE	--	
01	6/23/1997	1,1,2,2-TETRACHLOROETHANE	--	
02	7/30/1997	1,1,2,2-TETRACHLOROETHANE	--	
01	5/22/1998	1,1,2,2-TETRACHLOROETHANE	--	
02	5/22/1998	1,1,2,2-TETRACHLOROETHANE	--	
02	11/17/1999	1,1,2,2-TETRACHLOROETHANE	--	
01	12/9/1999	1,1,2,2-TETRACHLOROETHANE	--	
01	2/14/1991	1,1,2-TRICHLOROETHANE	--	
02	2/14/1991	1,1,2-TRICHLOROETHANE	--	
01	1/17/1995	1,1,2-TRICHLOROETHANE	--	
02	9/26/1995	1,1,2-TRICHLOROETHANE	--	
01	3/14/1996	1,1,2-TRICHLOROETHANE	--	
02	3/14/1996	1,1,2-TRICHLOROETHANE	--	
01	6/23/1997	1,1,2-TRICHLOROETHANE	--	
02	7/30/1997	1,1,2-TRICHLOROETHANE	--	
01	5/22/1998	1,1,2-TRICHLOROETHANE	--	
02	5/22/1998	1,1,2-TRICHLOROETHANE	--	
02	11/17/1999	1,1,2-TRICHLOROETHANE	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
01	12/9/1999	1,1,2-TRICHLOROETHANE	--	
01	2/14/1991	1,1-DICHLOROETHANE	--	
02	2/14/1991	1,1-DICHLOROETHANE	--	
01	1/17/1995	1,1-DICHLOROETHANE	--	
02	9/26/1995	1,1-DICHLOROETHANE	--	
01	3/14/1996	1,1-DICHLOROETHANE	--	
02	3/14/1996	1,1-DICHLOROETHANE	--	
01	6/23/1997	1,1-DICHLOROETHANE	--	
02	7/30/1997	1,1-DICHLOROETHANE	--	
01	5/22/1998	1,1-DICHLOROETHANE	--	
02	5/22/1998	1,1-DICHLOROETHANE	--	
02	11/17/1999	1,1-DICHLOROETHANE	--	
01	12/9/1999	1,1-DICHLOROETHANE	--	
01	2/14/1991	1,1-DICHLOROETHYLENE	--	
02	2/14/1991	1,1-DICHLOROETHYLENE	--	
01	1/17/1995	1,1-DICHLOROETHYLENE	--	
02	9/26/1995	1,1-DICHLOROETHYLENE	--	
01	3/14/1996	1,1-DICHLOROETHYLENE	--	
02	3/14/1996	1,1-DICHLOROETHYLENE	--	
01	6/23/1997	1,1-DICHLOROETHYLENE	--	
02	7/30/1997	1,1-DICHLOROETHYLENE	--	
01	5/22/1998	1,1-DICHLOROETHYLENE	--	
02	5/22/1998	1,1-DICHLOROETHYLENE	--	
02	11/17/1999	1,1-DICHLOROETHYLENE	--	
01	12/9/1999	1,1-DICHLOROETHYLENE	--	
01	2/14/1991	1,1-DICHLOROPROPENE	--	
02	2/14/1991	1,1-DICHLOROPROPENE	--	
01	1/17/1995	1,1-DICHLOROPROPENE	--	
02	9/26/1995	1,1-DICHLOROPROPENE	--	
01	3/14/1996	1,1-DICHLOROPROPENE	--	
02	3/14/1996	1,1-DICHLOROPROPENE	--	
01	6/23/1997	1,1-DICHLOROPROPENE	--	
02	7/30/1997	1,1-DICHLOROPROPENE	--	
01	5/22/1998	1,1-DICHLOROPROPENE	--	
02	5/22/1998	1,1-DICHLOROPROPENE	--	
02	11/17/1999	1,1-DICHLOROPROPENE	--	
01	12/9/1999	1,1-DICHLOROPROPENE	--	
01	2/14/1991	1,2,3-TRICHLOROBENZENE	--	
02	2/14/1991	1,2,3-TRICHLOROBENZENE	--	
01	1/17/1995	1,2,3-TRICHLOROBENZENE	--	
02	9/26/1995	1,2,3-TRICHLOROBENZENE	--	
01	3/14/1996	1,2,3-TRICHLOROBENZENE	--	
02	3/14/1996	1,2,3-TRICHLOROBENZENE	--	
01	6/23/1997	1,2,3-TRICHLOROBENZENE	--	
02	7/30/1997	1,2,3-TRICHLOROBENZENE	--	
01	5/22/1998	1,2,3-TRICHLOROBENZENE	--	
02	5/22/1998	1,2,3-TRICHLOROBENZENE	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
02	11/17/1999	1,2,3-TRICHLOROBENZENE	--	
01	12/9/1999	1,2,3-TRICHLOROBENZENE	--	
01	2/14/1991	1,2,3-TRICHLOROPROPANE	--	
02	2/14/1991	1,2,3-TRICHLOROPROPANE	--	
01	1/17/1995	1,2,3-TRICHLOROPROPANE	--	
02	9/26/1995	1,2,3-TRICHLOROPROPANE	--	
01	3/14/1996	1,2,3-TRICHLOROPROPANE	--	
02	3/14/1996	1,2,3-TRICHLOROPROPANE	--	
01	6/23/1997	1,2,3-TRICHLOROPROPANE	--	
02	7/30/1997	1,2,3-TRICHLOROPROPANE	--	
01	5/22/1998	1,2,3-TRICHLOROPROPANE	--	
02	5/22/1998	1,2,3-TRICHLOROPROPANE	--	
02	11/17/1999	1,2,3-TRICHLOROPROPANE	--	
01	12/9/1999	1,2,3-TRICHLOROPROPANE	--	
01	2/14/1991	1,2,4-TRICHLOROBENZENE	--	
02	2/14/1991	1,2,4-TRICHLOROBENZENE	--	
01	1/17/1995	1,2,4-TRICHLOROBENZENE	--	
02	9/26/1995	1,2,4-TRICHLOROBENZENE	--	
01	3/14/1996	1,2,4-TRICHLOROBENZENE	--	
02	3/14/1996	1,2,4-TRICHLOROBENZENE	--	
01	6/23/1997	1,2,4-TRICHLOROBENZENE	--	
02	7/30/1997	1,2,4-TRICHLOROBENZENE	--	
01	5/22/1998	1,2,4-TRICHLOROBENZENE	--	
02	5/22/1998	1,2,4-TRICHLOROBENZENE	--	
02	11/17/1999	1,2,4-TRICHLOROBENZENE	--	
01	12/9/1999	1,2,4-TRICHLOROBENZENE	--	
01	2/14/1991	1,2,4-TRIMETHYLBENZENE	--	
02	2/14/1991	1,2,4-TRIMETHYLBENZENE	--	
01	1/17/1995	1,2,4-TRIMETHYLBENZENE	--	
02	9/26/1995	1,2,4-TRIMETHYLBENZENE	--	
01	3/14/1996	1,2,4-TRIMETHYLBENZENE	--	
02	3/14/1996	1,2,4-TRIMETHYLBENZENE	--	
01	6/23/1997	1,2,4-TRIMETHYLBENZENE	--	
02	7/30/1997	1,2,4-TRIMETHYLBENZENE	--	
01	5/22/1998	1,2,4-TRIMETHYLBENZENE	--	
02	5/22/1998	1,2,4-TRIMETHYLBENZENE	--	
02	11/17/1999	1,2,4-TRIMETHYLBENZENE	--	
01	12/9/1999	1,2,4-TRIMETHYLBENZENE	--	
01	2/14/1991	1,2-DICHLOROETHANE	--	
02	2/14/1991	1,2-DICHLOROETHANE	--	
01	1/17/1995	1,2-DICHLOROETHANE	--	
02	9/26/1995	1,2-DICHLOROETHANE	--	
01	3/14/1996	1,2-DICHLOROETHANE	--	
02	3/14/1996	1,2-DICHLOROETHANE	--	
01	6/23/1997	1,2-DICHLOROETHANE	--	
02	7/30/1997	1,2-DICHLOROETHANE	--	
01	5/22/1998	1,2-DICHLOROETHANE	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
02	7/30/1997	BROMOCHLOROMETHANE	--	
01	5/22/1998	BROMOCHLOROMETHANE	--	
02	5/22/1998	BROMOCHLOROMETHANE	--	
02	11/17/1999	BROMOCHLOROMETHANE	--	
01	12/9/1999	BROMOCHLOROMETHANE	--	
01	2/14/1991	BROMODICHLOROMETHANE	--	
02	2/14/1991	BROMODICHLOROMETHANE	--	
02	9/26/1995	BROMODICHLOROMETHANE	--	
01	3/14/1996	BROMODICHLOROMETHANE	--	
02	3/14/1996	BROMODICHLOROMETHANE	--	
01	6/23/1997	BROMODICHLOROMETHANE	--	
02	7/30/1997	BROMODICHLOROMETHANE	2	100 #
01	5/22/1998	BROMODICHLOROMETHANE	1.1	100 #
02	5/22/1998	BROMODICHLOROMETHANE	--	
02	11/17/1999	BROMODICHLOROMETHANE	1.8	100 #
01	12/9/1999	BROMODICHLOROMETHANE	1.9	100 #
01	2/14/1991	BROMOFORM	--	
02	2/14/1991	BROMOFORM	--	
02	9/26/1995	BROMOFORM	--	
01	3/14/1996	BROMOFORM	--	
02	3/14/1996	BROMOFORM	--	
01	6/23/1997	BROMOFORM	--	
02	7/30/1997	BROMOFORM	--	
01	5/22/1998	BROMOFORM	--	
02	5/22/1998	BROMOFORM	--	
02	11/17/1999	BROMOFORM	--	
01	12/9/1999	BROMOFORM	--	
01	2/14/1991	BROMOMETHANE	--	
02	2/14/1991	BROMOMETHANE	--	
01	1/17/1995	BROMOMETHANE	--	
02	9/26/1995	BROMOMETHANE	--	
01	3/14/1996	BROMOMETHANE	--	
02	3/14/1996	BROMOMETHANE	--	
01	6/23/1997	BROMOMETHANE	--	
02	7/30/1997	BROMOMETHANE	--	
01	5/22/1998	BROMOMETHANE	--	
02	5/22/1998	BROMOMETHANE	--	
02	11/17/1999	BROMOMETHANE	--	
01	12/9/1999	BROMOMETHANE	--	
01	2/14/1991	CARBON TETRACHLORIDE	--	
02	2/14/1991	CARBON TETRACHLORIDE	--	
01	1/17/1995	CARBON TETRACHLORIDE	--	
02	9/26/1995	CARBON TETRACHLORIDE	--	
01	3/14/1996	CARBON TETRACHLORIDE	--	
02	3/14/1996	CARBON TETRACHLORIDE	--	
01	6/23/1997	CARBON TETRACHLORIDE	--	
02	7/30/1997	CARBON TETRACHLORIDE	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
01	5/22/1998	CARBON TETRACHLORIDE	--	
02	5/22/1998	CARBON TETRACHLORIDE	--	
02	11/17/1999	CARBON TETRACHLORIDE	--	
01	12/9/1999	CARBON TETRACHLORIDE	--	
01	2/14/1991	CHLOROETHANE	--	
02	2/14/1991	CHLOROETHANE	--	
01	1/17/1995	CHLOROETHANE	--	
02	9/26/1995	CHLOROETHANE	--	
01	3/14/1996	CHLOROETHANE	--	
02	3/14/1996	CHLOROETHANE	--	
01	6/23/1997	CHLOROETHANE	--	
02	7/30/1997	CHLOROETHANE	--	
01	5/22/1998	CHLOROETHANE	--	
02	5/22/1998	CHLOROETHANE	--	
02	11/17/1999	CHLOROETHANE	--	
01	12/9/1999	CHLOROETHANE	--	
01	2/14/1991	CHLOROFORM	--	
02	2/14/1991	CHLOROFORM	0.6	100 #
02	9/26/1995	CHLOROFORM	--	
01	3/14/1996	CHLOROFORM	--	
02	3/14/1996	CHLOROFORM	0.7	100 #
01	6/23/1997	CHLOROFORM	--	
02	7/30/1997	CHLOROFORM	4	100 #
01	5/22/1998	CHLOROFORM	3	100 #
02	5/22/1998	CHLOROFORM	1.5	100 #
02	11/17/1999	CHLOROFORM	3.3	100 #
01	12/9/1999	CHLOROFORM	4	100 #
01	2/14/1991	CHLOROMETHANE	--	
02	2/14/1991	CHLOROMETHANE	--	
01	1/17/1995	CHLOROMETHANE	--	
02	9/26/1995	CHLOROMETHANE	--	
01	3/14/1996	CHLOROMETHANE	--	
02	3/14/1996	CHLOROMETHANE	--	
01	6/23/1997	CHLOROMETHANE	--	
02	7/30/1997	CHLOROMETHANE	--	
01	5/22/1998	CHLOROMETHANE	--	
02	5/22/1998	CHLOROMETHANE	--	
02	11/17/1999	CHLOROMETHANE	--	
01	12/9/1999	CHLOROMETHANE	--	
01	2/14/1991	cis-1,2-DICHLOROETHYLENE	--	
02	2/14/1991	cis-1,2-DICHLOROETHYLENE	--	
01	1/17/1995	cis-1,2-DICHLOROETHYLENE	--	
02	9/26/1995	cis-1,2-DICHLOROETHYLENE	--	
01	3/14/1996	cis-1,2-DICHLOROETHYLENE	--	
02	3/14/1996	cis-1,2-DICHLOROETHYLENE	--	
01	6/23/1997	cis-1,2-DICHLOROETHYLENE	--	
02	7/30/1997	cis-1,2-DICHLOROETHYLENE	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
01	5/22/1998	cis-1,2-DICHLOROETHYLENE	--	
02	5/22/1998	cis-1,2-DICHLOROETHYLENE	--	
02	11/17/1999	cis-1,2-DICHLOROETHYLENE	--	
01	12/9/1999	cis-1,2-DICHLOROETHYLENE	--	
01	2/14/1991	DIBROMOCHLOROMETHANE	--	
02	2/14/1991	DIBROMOCHLOROMETHANE	--	
02	9/26/1995	DIBROMOCHLOROMETHANE	--	
01	3/14/1996	DIBROMOCHLOROMETHANE	--	
02	3/14/1996	DIBROMOCHLOROMETHANE	--	
01	6/23/1997	DIBROMOCHLOROMETHANE	--	
02	7/30/1997	DIBROMOCHLOROMETHANE	1	100 #
01	5/22/1998	DIBROMOCHLOROMETHANE	--	
02	5/22/1998	DIBROMOCHLOROMETHANE	--	
02	11/17/1999	DIBROMOCHLOROMETHANE	1	100 #
01	12/9/1999	DIBROMOCHLOROMETHANE	0.9	100 #
01	2/14/1991	DIBROMOMETHANE	--	
02	2/14/1991	DIBROMOMETHANE	--	
01	1/17/1995	DIBROMOMETHANE	--	
02	9/26/1995	DIBROMOMETHANE	--	
01	3/14/1996	DIBROMOMETHANE	--	
02	3/14/1996	DIBROMOMETHANE	--	
01	6/23/1997	DIBROMOMETHANE	--	
02	7/30/1997	DIBROMOMETHANE	--	
01	5/22/1998	DIBROMOMETHANE	--	
02	5/22/1998	DIBROMOMETHANE	--	
02	11/17/1999	DIBROMOMETHANE	--	
01	12/9/1999	DIBROMOMETHANE	--	
01	2/14/1991	DICHLORODIFLUOROMETHANE	--	
02	2/14/1991	DICHLORODIFLUOROMETHANE	--	
01	1/17/1995	DICHLORODIFLUOROMETHANE	--	
02	9/26/1995	DICHLORODIFLUOROMETHANE	--	
01	3/14/1996	DICHLORODIFLUOROMETHANE	--	
02	3/14/1996	DICHLORODIFLUOROMETHANE	--	
01	6/23/1997	DICHLORODIFLUOROMETHANE	--	
02	7/30/1997	DICHLORODIFLUOROMETHANE	--	
01	5/22/1998	DICHLORODIFLUOROMETHANE	--	
02	5/22/1998	DICHLORODIFLUOROMETHANE	--	
02	11/17/1999	DICHLORODIFLUOROMETHANE	--	
01	12/9/1999	DICHLORODIFLUOROMETHANE	--	
01	2/14/1991	ETHYLBENZENE	--	
02	2/14/1991	ETHYLBENZENE	--	
01	1/17/1995	ETHYLBENZENE	--	
02	9/26/1995	ETHYLBENZENE	--	
01	3/14/1996	ETHYLBENZENE	--	
02	3/14/1996	ETHYLBENZENE	--	
01	6/23/1997	ETHYLBENZENE	--	
02	7/30/1997	ETHYLBENZENE	--	

- --=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
01	5/22/1998	ETHYLBENZENE	--	
02	5/22/1998	ETHYLBENZENE	--	
02	11/17/1999	ETHYLBENZENE	--	
01	12/9/1999	ETHYLBENZENE	--	
01	2/14/1991	HEXACHLOROBUTADIENE	--	
02	2/14/1991	HEXACHLOROBUTADIENE	--	
01	1/17/1995	HEXACHLOROBUTADIENE	--	
02	9/26/1995	HEXACHLOROBUTADIENE	--	
01	3/14/1996	HEXACHLOROBUTADIENE	--	
02	3/14/1996	HEXACHLOROBUTADIENE	--	
01	6/23/1997	HEXACHLOROBUTADIENE	--	
02	7/30/1997	HEXACHLOROBUTADIENE	--	
01	5/22/1998	HEXACHLOROBUTADIENE	--	
02	5/22/1998	HEXACHLOROBUTADIENE	--	
02	11/17/1999	HEXACHLOROBUTADIENE	--	
01	12/9/1999	HEXACHLOROBUTADIENE	--	
01	2/14/1991	ISOPROPYLBENZENE	--	
02	2/14/1991	ISOPROPYLBENZENE	--	
01	1/17/1995	ISOPROPYLBENZENE	--	
02	9/26/1995	ISOPROPYLBENZENE	--	
01	3/14/1996	ISOPROPYLBENZENE	--	
02	3/14/1996	ISOPROPYLBENZENE	--	
01	6/23/1997	ISOPROPYLBENZENE	--	
02	7/30/1997	ISOPROPYLBENZENE	--	
01	5/22/1998	ISOPROPYLBENZENE	--	
02	5/22/1998	ISOPROPYLBENZENE	--	
02	11/17/1999	ISOPROPYLBENZENE	--	
01	12/9/1999	ISOPROPYLBENZENE	--	
01	2/14/1991	m-DICHLOROBENZENE	--	
02	2/14/1991	m-DICHLOROBENZENE	--	
01	1/17/1995	m-DICHLOROBENZENE	--	
02	9/26/1995	m-DICHLOROBENZENE	--	
01	3/14/1996	m-DICHLOROBENZENE	--	
02	3/14/1996	m-DICHLOROBENZENE	--	
01	6/23/1997	m-DICHLOROBENZENE	--	
02	7/30/1997	m-DICHLOROBENZENE	--	
01	5/22/1998	m-DICHLOROBENZENE	--	
02	5/22/1998	m-DICHLOROBENZENE	--	
02	11/17/1999	m-DICHLOROBENZENE	--	
01	12/9/1999	m-DICHLOROBENZENE	--	
01	2/14/1991	METHYLENE CHLORIDE	2	5
02	2/14/1991	METHYLENE CHLORIDE	--	
01	1/17/1995	METHYLENE CHLORIDE	--	
02	9/26/1995	METHYLENE CHLORIDE	--	
01	3/14/1996	METHYLENE CHLORIDE	--	
02	3/14/1996	METHYLENE CHLORIDE	--	
01	6/23/1997	METHYLENE CHLORIDE	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
02	7/30/1997	METHYLENE CHLORIDE	--	
01	5/22/1998	METHYLENE CHLORIDE	--	
02	5/22/1998	METHYLENE CHLORIDE	--	
02	11/17/1999	METHYLENE CHLORIDE	--	
01	12/9/1999	METHYLENE CHLORIDE	--	
01	1/17/1995	METHYL-TERT-BUTYL-ETHER	--	
01	1/17/1995	METHYL-TERT-BUTYL-ETHER	--	
02	9/26/1995	METHYL-TERT-BUTYL-ETHER	--	
02	9/26/1995	METHYL-TERT-BUTYL-ETHER	--	
01	3/14/1996	METHYL-TERT-BUTYL-ETHER	--	
02	3/14/1996	METHYL-TERT-BUTYL-ETHER	--	
01	3/14/1996	METHYL-TERT-BUTYL-ETHER	--	
02	3/14/1996	METHYL-TERT-BUTYL-ETHER	--	
01	6/23/1997	METHYL-TERT-BUTYL-ETHER	--	
01	6/23/1997	METHYL-TERT-BUTYL-ETHER	--	
02	7/30/1997	METHYL-TERT-BUTYL-ETHER	--	
02	7/30/1997	METHYL-TERT-BUTYL-ETHER	--	
01	5/22/1998	METHYL-TERT-BUTYL-ETHER	--	
02	5/22/1998	METHYL-TERT-BUTYL-ETHER	--	
01	5/22/1998	METHYL-TERT-BUTYL-ETHER	--	
02	5/22/1998	METHYL-TERT-BUTYL-ETHER	--	
02	11/17/1999	METHYL-TERT-BUTYL-ETHER	--	
02	11/17/1999	METHYL-TERT-BUTYL-ETHER	--	
01	12/9/1999	METHYL-TERT-BUTYL-ETHER	--	
01	12/9/1999	METHYL-TERT-BUTYL-ETHER	--	
01	2/14/1991	MONOCHLOROBENZENE	--	
02	2/14/1991	MONOCHLOROBENZENE	--	
01	1/17/1995	MONOCHLOROBENZENE	--	
02	9/26/1995	MONOCHLOROBENZENE	--	
01	3/14/1996	MONOCHLOROBENZENE	--	
02	3/14/1996	MONOCHLOROBENZENE	--	
01	6/23/1997	MONOCHLOROBENZENE	--	
02	7/30/1997	MONOCHLOROBENZENE	--	
01	5/22/1998	MONOCHLOROBENZENE	--	
02	5/22/1998	MONOCHLOROBENZENE	--	
02	11/17/1999	MONOCHLOROBENZENE	--	
01	12/9/1999	MONOCHLOROBENZENE	--	
01	2/14/1991	m-XYLENE	--	
02	2/14/1991	m-XYLENE	--	
01	1/17/1995	m-XYLENE	--	
02	9/26/1995	m-XYLENE	--	
01	3/14/1996	m-XYLENE	--	
02	3/14/1996	m-XYLENE	--	
01	6/23/1997	m-XYLENE	--	
02	7/30/1997	m-XYLENE	--	
01	5/22/1998	m-XYLENE	--	
02	5/22/1998	m-XYLENE	--	

- --=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
02	11/17/1999	m-XYLENE	--	
01	12/9/1999	m-XYLENE	--	
01	2/14/1991	NAPHTHALENE	--	
02	2/14/1991	NAPHTHALENE	--	
01	1/17/1995	NAPHTHALENE	--	
02	9/26/1995	NAPHTHALENE	--	
01	3/14/1996	NAPHTHALENE	--	
02	3/14/1996	NAPHTHALENE	--	
01	6/23/1997	NAPHTHALENE	--	
02	7/30/1997	NAPHTHALENE	--	
01	5/22/1998	NAPHTHALENE	--	
02	5/22/1998	NAPHTHALENE	--	
02	11/17/1999	NAPHTHALENE	--	
01	12/9/1999	NAPHTHALENE	--	
01	2/14/1991	N-BUTYLBENZENE	--	
02	2/14/1991	N-BUTYLBENZENE	--	
01	1/17/1995	N-BUTYLBENZENE	--	
02	9/26/1995	N-BUTYLBENZENE	--	
01	3/14/1996	N-BUTYLBENZENE	--	
02	3/14/1996	N-BUTYLBENZENE	--	
01	6/23/1997	N-BUTYLBENZENE	--	
02	7/30/1997	N-BUTYLBENZENE	--	
01	5/22/1998	N-BUTYLBENZENE	--	
02	5/22/1998	N-BUTYLBENZENE	--	
02	11/17/1999	N-BUTYLBENZENE	--	
01	12/9/1999	N-BUTYLBENZENE	--	
01	2/14/1991	n-PROPYLBENZENE	--	
02	2/14/1991	n-PROPYLBENZENE	--	
01	1/17/1995	n-PROPYLBENZENE	--	
02	9/26/1995	n-PROPYLBENZENE	--	
01	3/14/1996	n-PROPYLBENZENE	--	
02	3/14/1996	n-PROPYLBENZENE	--	
01	6/23/1997	n-PROPYLBENZENE	--	
02	7/30/1997	n-PROPYLBENZENE	--	
01	5/22/1998	n-PROPYLBENZENE	--	
02	5/22/1998	n-PROPYLBENZENE	--	
02	11/17/1999	n-PROPYLBENZENE	--	
01	12/9/1999	n-PROPYLBENZENE	--	
01	2/14/1991	o-CHLOROTOLUENE	--	
02	2/14/1991	o-CHLOROTOLUENE	--	
01	1/17/1995	o-CHLOROTOLUENE	--	
02	9/26/1995	o-CHLOROTOLUENE	--	
02	3/14/1996	o-CHLOROTOLUENE	--	
01	3/14/1996	o-CHLOROTOLUENE	--	
01	6/23/1997	o-CHLOROTOLUENE	--	
02	7/30/1997	o-CHLOROTOLUENE	--	
01	5/22/1998	o-CHLOROTOLUENE	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
02	5/22/1998	o-CHLOROTOLUENE	--	
02	11/17/1999	o-CHLOROTOLUENE	--	
01	12/9/1999	o-CHLOROTOLUENE	--	
01	2/14/1991	o-DICHLOROBENZENE	--	
02	2/14/1991	o-DICHLOROBENZENE	--	
01	1/17/1995	o-DICHLOROBENZENE	--	
02	9/26/1995	o-DICHLOROBENZENE	--	
01	3/14/1996	o-DICHLOROBENZENE	--	
02	3/14/1996	o-DICHLOROBENZENE	--	
01	6/23/1997	o-DICHLOROBENZENE	--	
02	7/30/1997	o-DICHLOROBENZENE	--	
01	5/22/1998	o-DICHLOROBENZENE	--	
02	5/22/1998	o-DICHLOROBENZENE	--	
02	11/17/1999	o-DICHLOROBENZENE	--	
01	12/9/1999	o-DICHLOROBENZENE	--	
01	2/14/1991	o-XYLENE	--	
02	2/14/1991	o-XYLENE	--	
01	1/17/1995	o-XYLENE	--	
02	9/26/1995	o-XYLENE	--	
01	3/14/1996	o-XYLENE	--	
02	3/14/1996	o-XYLENE	--	
01	6/23/1997	o-XYLENE	--	
02	7/30/1997	o-XYLENE	--	
01	5/22/1998	o-XYLENE	--	
02	5/22/1998	o-XYLENE	--	
02	11/17/1999	o-XYLENE	--	
01	12/9/1999	o-XYLENE	--	
01	2/14/1991	p-CHLOROTOLUENE	--	
02	2/14/1991	p-CHLOROTOLUENE	--	
01	1/17/1995	p-CHLOROTOLUENE	--	
02	9/26/1995	p-CHLOROTOLUENE	--	
01	3/14/1996	p-CHLOROTOLUENE	--	
02	3/14/1996	p-CHLOROTOLUENE	--	
01	6/23/1997	p-CHLOROTOLUENE	--	
02	7/30/1997	p-CHLOROTOLUENE	--	
01	5/22/1998	p-CHLOROTOLUENE	--	
02	5/22/1998	p-CHLOROTOLUENE	--	
02	11/17/1999	p-CHLOROTOLUENE	--	
01	12/9/1999	p-CHLOROTOLUENE	--	
01	2/14/1991	p-DICHLOROBENZENE	--	
02	2/14/1991	p-DICHLOROBENZENE	--	
01	1/17/1995	p-DICHLOROBENZENE	--	
02	9/26/1995	p-DICHLOROBENZENE	--	
01	3/14/1996	p-DICHLOROBENZENE	--	
02	3/14/1996	p-DICHLOROBENZENE	--	
01	6/23/1997	p-DICHLOROBENZENE	--	
02	7/30/1997	p-DICHLOROBENZENE	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
01	5/22/1998	p-DICHLOROBENZENE	--	
02	5/22/1998	p-DICHLOROBENZENE	--	
02	11/17/1999	p-DICHLOROBENZENE	--	
01	12/9/1999	p-DICHLOROBENZENE	--	
01	2/14/1991	P-ISOPROPYLTOLUENE	--	
02	2/14/1991	P-ISOPROPYLTOLUENE	--	
01	1/17/1995	P-ISOPROPYLTOLUENE	--	
02	9/26/1995	P-ISOPROPYLTOLUENE	--	
01	3/14/1996	P-ISOPROPYLTOLUENE	--	
02	3/14/1996	P-ISOPROPYLTOLUENE	--	
01	6/23/1997	P-ISOPROPYLTOLUENE	--	
02	7/30/1997	P-ISOPROPYLTOLUENE	--	
01	5/22/1998	P-ISOPROPYLTOLUENE	--	
02	5/22/1998	P-ISOPROPYLTOLUENE	--	
02	11/17/1999	P-ISOPROPYLTOLUENE	--	
01	12/9/1999	P-ISOPROPYLTOLUENE	--	
01	2/14/1991	p-XYLENE	--	
02	2/14/1991	p-XYLENE	--	
01	1/17/1995	p-XYLENE	--	
02	9/26/1995	p-XYLENE	--	
01	3/14/1996	p-XYLENE	--	
02	3/14/1996	p-XYLENE	--	
01	6/23/1997	p-XYLENE	--	
02	7/30/1997	p-XYLENE	--	
01	5/22/1998	p-XYLENE	--	
02	5/22/1998	p-XYLENE	--	
02	11/17/1999	p-XYLENE	--	
01	12/9/1999	p-XYLENE	--	
01	2/14/1991	SEC-BUTYLBENZENE	--	
02	2/14/1991	SEC-BUTYLBENZENE	--	
01	1/17/1995	SEC-BUTYLBENZENE	--	
02	9/26/1995	SEC-BUTYLBENZENE	--	
01	3/14/1996	SEC-BUTYLBENZENE	--	
02	3/14/1996	SEC-BUTYLBENZENE	--	
01	6/23/1997	SEC-BUTYLBENZENE	--	
02	7/30/1997	SEC-BUTYLBENZENE	--	
01	5/22/1998	SEC-BUTYLBENZENE	--	
02	5/22/1998	SEC-BUTYLBENZENE	--	
02	11/17/1999	SEC-BUTYLBENZENE	--	
01	12/9/1999	SEC-BUTYLBENZENE	--	
01	2/14/1991	STYRENE	--	
02	2/14/1991	STYRENE	--	
01	1/17/1995	STYRENE	--	
02	9/26/1995	STYRENE	--	
01	3/14/1996	STYRENE	--	
02	3/14/1996	STYRENE	--	
01	6/23/1997	STYRENE	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
02	7/30/1997	STYRENE	--	
01	5/22/1998	STYRENE	--	
02	5/22/1998	STYRENE	--	
02	11/17/1999	STYRENE	--	
01	12/9/1999	STYRENE	--	
01	2/14/1991	TERT-BUTYLBENZENE	--	
02	2/14/1991	TERT-BUTYLBENZENE	--	
01	1/17/1995	TERT-BUTYLBENZENE	--	
02	9/26/1995	TERT-BUTYLBENZENE	--	
01	3/14/1996	TERT-BUTYLBENZENE	--	
02	3/14/1996	TERT-BUTYLBENZENE	--	
01	6/23/1997	TERT-BUTYLBENZENE	--	
02	7/30/1997	TERT-BUTYLBENZENE	--	
01	5/22/1998	TERT-BUTYLBENZENE	--	
02	5/22/1998	TERT-BUTYLBENZENE	--	
02	11/17/1999	TERT-BUTYLBENZENE	--	
01	12/9/1999	TERT-BUTYLBENZENE	--	
01	2/14/1991	TETRACHLOROETHYLENE	--	
02	2/14/1991	TETRACHLOROETHYLENE	--	
01	1/17/1995	TETRACHLOROETHYLENE	--	
02	9/26/1995	TETRACHLOROETHYLENE	--	
01	3/14/1996	TETRACHLOROETHYLENE	--	
02	3/14/1996	TETRACHLOROETHYLENE	--	
01	6/23/1997	TETRACHLOROETHYLENE	--	
02	7/30/1997	TETRACHLOROETHYLENE	--	
01	5/22/1998	TETRACHLOROETHYLENE	--	
02	5/22/1998	TETRACHLOROETHYLENE	--	
02	11/17/1999	TETRACHLOROETHYLENE	--	
01	12/9/1999	TETRACHLOROETHYLENE	--	
01	2/14/1991	TOLUENE	--	
02	2/14/1991	TOLUENE	--	
01	1/17/1995	TOLUENE	--	
02	9/26/1995	TOLUENE	--	
01	3/14/1996	TOLUENE	--	
02	3/14/1996	TOLUENE	--	
01	6/23/1997	TOLUENE	--	
02	7/30/1997	TOLUENE	--	
01	5/22/1998	TOLUENE	--	
02	5/22/1998	TOLUENE	--	
02	11/17/1999	TOLUENE	--	
01	12/9/1999	TOLUENE	--	
01	2/14/1991	trans-1,2-DICHLOROETHYLENE	--	
02	2/14/1991	trans-1,2-DICHLOROETHYLENE	--	
01	1/17/1995	trans-1,2-DICHLOROETHYLENE	--	
02	9/26/1995	trans-1,2-DICHLOROETHYLENE	--	
01	3/14/1996	trans-1,2-DICHLOROETHYLENE	--	
02	3/14/1996	trans-1,2-DICHLOROETHYLENE	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
01	6/23/1997	trans-1,2-DICHLOROETHYLENE	--	
02	7/30/1997	trans-1,2-DICHLOROETHYLENE	--	
01	5/22/1998	trans-1,2-DICHLOROETHYLENE	--	
02	5/22/1998	trans-1,2-DICHLOROETHYLENE	--	
02	11/17/1999	trans-1,2-DICHLOROETHYLENE	--	
01	12/9/1999	trans-1,2-DICHLOROETHYLENE	--	
01	2/14/1991	TRICHLOROETHYLENE	--	
02	2/14/1991	TRICHLOROETHYLENE	--	
01	1/17/1995	TRICHLOROETHYLENE	--	
02	9/26/1995	TRICHLOROETHYLENE	--	
01	3/14/1996	TRICHLOROETHYLENE	--	
02	3/14/1996	TRICHLOROETHYLENE	--	
01	6/23/1997	TRICHLOROETHYLENE	--	
02	7/30/1997	TRICHLOROETHYLENE	--	
01	5/22/1998	TRICHLOROETHYLENE	--	
02	5/22/1998	TRICHLOROETHYLENE	--	
02	11/17/1999	TRICHLOROETHYLENE	--	
01	12/9/1999	TRICHLOROETHYLENE	--	
01	2/14/1991	TRICHLOROFLUOROMETHANE	--	
02	2/14/1991	TRICHLOROFLUOROMETHANE	--	
01	1/17/1995	TRICHLOROFLUOROMETHANE	--	
02	9/26/1995	TRICHLOROFLUOROMETHANE	--	
01	3/14/1996	TRICHLOROFLUOROMETHANE	--	
02	3/14/1996	TRICHLOROFLUOROMETHANE	--	
01	6/23/1997	TRICHLOROFLUOROMETHANE	--	
02	7/30/1997	TRICHLOROFLUOROMETHANE	--	
01	5/22/1998	TRICHLOROFLUOROMETHANE	--	
02	5/22/1998	TRICHLOROFLUOROMETHANE	--	
02	11/17/1999	TRICHLOROFLUOROMETHANE	--	
01	12/9/1999	TRICHLOROFLUOROMETHANE	--	
01	2/14/1991	VINYL CHLORIDE	--	
02	2/14/1991	VINYL CHLORIDE	--	
01	1/17/1995	VINYL CHLORIDE	--	
02	9/26/1995	VINYL CHLORIDE	--	
01	3/14/1996	VINYL CHLORIDE	--	
02	3/14/1996	VINYL CHLORIDE	--	
01	6/23/1997	VINYL CHLORIDE	--	
02	7/30/1997	VINYL CHLORIDE	--	
01	5/22/1998	VINYL CHLORIDE	--	
02	5/22/1998	VINYL CHLORIDE	--	
02	11/17/1999	VINYL CHLORIDE	--	
01	12/9/1999	VINYL CHLORIDE	--	
01	2/14/1991	XYLENES, TOTAL	--	
02	2/14/1991	XYLENES, TOTAL	--	
01	1/17/1995	XYLENES, TOTAL	--	
02	9/26/1995	XYLENES, TOTAL	--	
01	3/14/1996	XYLENES, TOTAL	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Volatile Organic Compounds			µg/L	µg/L
02	3/14/1996	XYLENES, TOTAL	--	
01	6/23/1997	XYLENES, TOTAL	--	
02	7/30/1997	XYLENES, TOTAL	--	
01	5/22/1998	XYLENES, TOTAL	--	
02	5/22/1998	XYLENES, TOTAL	--	
02	11/17/1999	XYLENES, TOTAL	--	
01	12/9/1999	XYLENES, TOTAL	--	
Synthetic Organic Compounds			µg/L	µg/L
01	2/14/1991	1,2-DIBROMO-3-CHLOROPROPANE	--	
02	2/14/1991	1,2-DIBROMO-3-CHLOROPROPANE	--	
01	1/17/1995	1,2-DIBROMO-3-CHLOROPROPANE	--	
02	9/26/1995	1,2-DIBROMO-3-CHLOROPROPANE	--	
01	3/14/1996	1,2-DIBROMO-3-CHLOROPROPANE	--	
02	3/14/1996	1,2-DIBROMO-3-CHLOROPROPANE	--	
01	3/14/1996	1,2-DIBROMO-3-CHLOROPROPANE	--	
02	3/14/1996	1,2-DIBROMO-3-CHLOROPROPANE	--	
01	6/23/1997	1,2-DIBROMO-3-CHLOROPROPANE	--	
02	7/30/1997	1,2-DIBROMO-3-CHLOROPROPANE	--	
01	5/22/1998	1,2-DIBROMO-3-CHLOROPROPANE	--	
02	5/22/1998	1,2-DIBROMO-3-CHLOROPROPANE	--	
02	11/17/1999	1,2-DIBROMO-3-CHLOROPROPANE	--	
01	12/9/1999	1,2-DIBROMO-3-CHLOROPROPANE	--	
01	3/24/1993	2,4,5-T	--	
02	3/24/1993	2,4,5-T	--	
01	3/14/1996	2,4,5-T	--	
02	3/14/1996	2,4,5-T	--	
02	11/17/1999	2,4,5-T	--	
01	12/9/1999	2,4,5-T	--	
01	3/24/1993	2,4,5-TP (SILVEX)	--	
02	3/24/1993	2,4,5-TP (SILVEX)	--	
01	3/14/1996	2,4,5-TP (SILVEX)	--	
02	3/14/1996	2,4,5-TP (SILVEX)	--	
02	11/17/1999	2,4,5-TP (SILVEX)	--	
01	12/9/1999	2,4,5-TP (SILVEX)	--	
01	3/24/1993	2,4-D	--	
02	3/24/1993	2,4-D	--	
01	3/14/1996	2,4-D	--	
02	3/14/1996	2,4-D	--	
02	11/17/1999	2,4-D	--	
01	12/9/1999	2,4-D	--	
02	11/17/1999	3-HYDROXYCARBOFURAN	--	
01	12/9/1999	3-HYDROXYCARBOFURAN	--	
01	3/24/1993	ALACHLOR (LASSO)	--	
02	3/24/1993	ALACHLOR (LASSO)	--	
01	3/14/1996	ALACHLOR (LASSO)	--	
02	3/14/1996	ALACHLOR (LASSO)	--	
02	11/17/1999	ALACHLOR (LASSO)	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Synthetic Organic Compounds			µg/L	µg/L
01	12/9/1999	ALACHLOR (LASSO)	--	
02	11/17/1999	ALDICARB	--	
01	12/9/1999	ALDICARB	--	
02	11/17/1999	ALDICARB SULFONE	--	
01	12/9/1999	ALDICARB SULFONE	--	
02	11/17/1999	ALDICARB SULFOXIDE	--	
01	12/9/1999	ALDICARB SULFOXIDE	--	
01	3/24/1993	ALDRIN	--	
02	3/24/1993	ALDRIN	--	
01	3/14/1996	ALDRIN	--	
02	3/14/1996	ALDRIN	--	
02	11/17/1999	ALDRIN	--	
01	12/9/1999	ALDRIN	--	
01	3/24/1993	ATRAZINE	--	
02	3/24/1993	ATRAZINE	--	
01	3/14/1996	ATRAZINE	--	
02	3/14/1996	ATRAZINE	--	
02	11/17/1999	ATRAZINE	--	
01	12/9/1999	ATRAZINE	--	
01	3/14/1996	BENZO(a)PYRENE	--	
02	3/14/1996	BENZO(a)PYRENE	--	
02	11/17/1999	BENZO(a)PYRENE	--	
01	12/9/1999	BENZO(a)PYRENE	--	
01	3/24/1993	BHC-GAMMA(LINDANE)	--	
02	3/24/1993	BHC-GAMMA(LINDANE)	--	
01	3/14/1996	BHC-GAMMA(LINDANE)	--	
02	3/14/1996	BHC-GAMMA(LINDANE)	--	
02	11/17/1999	BHC-GAMMA(LINDANE)	--	
01	12/9/1999	BHC-GAMMA(LINDANE)	--	
01	3/24/1993	BUTACHLOR (MACHETE)	--	
02	3/24/1993	BUTACHLOR (MACHETE)	--	
01	3/14/1996	BUTACHLOR (MACHETE)	--	
02	3/14/1996	BUTACHLOR (MACHETE)	--	
02	11/17/1999	BUTACHLOR (MACHETE)	--	
01	12/9/1999	BUTACHLOR (MACHETE)	--	
02	11/17/1999	CARBARYL	--	
01	12/9/1999	CARBARYL	--	
02	11/17/1999	CARBOFURAN	--	
01	12/9/1999	CARBOFURAN	--	
01	3/24/1993	CHLORDANE	--	
02	3/24/1993	CHLORDANE	--	
01	3/14/1996	CHLORDANE	--	
02	3/14/1996	CHLORDANE	--	
02	11/17/1999	CHLORDANE	--	
01	12/9/1999	CHLORDANE	--	
01	3/24/1993	DALAPON	--	
02	3/24/1993	DALAPON	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
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SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Synthetic Organic Compounds			µg/L	µg/L
01	3/14/1996	DALAPON	--	
02	3/14/1996	DALAPON	--	
02	11/17/1999	DALAPON	--	
01	12/9/1999	DALAPON	--	
01	3/24/1993	DECACHLOROBIPHENYL	--	
02	3/24/1993	DECACHLOROBIPHENYL	--	
01	3/14/1996	DECACHLOROBIPHENYL	--	
02	3/14/1996	DECACHLOROBIPHENYL	--	
01	3/14/1996	DI(2-ETHYLHEXYL) ADIPATE	--	
02	3/14/1996	DI(2-ETHYLHEXYL) ADIPATE	--	
02	11/17/1999	DI(2-ETHYLHEXYL) ADIPATE	--	
01	12/9/1999	DI(2-ETHYLHEXYL) ADIPATE	--	
01	3/14/1996	DI(2-ETHYLHEXYL) PHTHALATE	--	
02	3/14/1996	DI(2-ETHYLHEXYL) PHTHALATE	--	
02	11/17/1999	DI(2-ETHYLHEXYL) PHTHALATE	--	
01	12/9/1999	DI(2-ETHYLHEXYL) PHTHALATE	--	
01	3/24/1993	DIAZINON (SPECTRACIDE)	--	
02	3/24/1993	DIAZINON (SPECTRACIDE)	--	
01	3/14/1996	DIAZINON (SPECTRACIDE)	--	
02	3/14/1996	DIAZINON (SPECTRACIDE)	--	
01	3/24/1993	DICAMBA	--	
02	3/24/1993	DICAMBA	--	
01	3/14/1996	DICAMBA	--	
02	3/14/1996	DICAMBA	--	
02	11/17/1999	DICAMBA	--	
01	12/9/1999	DICAMBA	--	
01	3/24/1993	DIELDRIN	--	
02	3/24/1993	DIELDRIN	--	
01	3/14/1996	DIELDRIN	--	
02	3/14/1996	DIELDRIN	--	
02	11/17/1999	DIELDRIN	--	
01	12/9/1999	DIELDRIN	--	
01	3/24/1993	DINOSEB	--	
02	3/24/1993	DINOSEB	--	
01	3/14/1996	DINOSEB	--	
02	3/14/1996	DINOSEB	--	
02	11/17/1999	DINOSEB	--	
01	12/9/1999	DINOSEB	--	
01	3/24/1993	DURSBAN	--	
02	3/24/1993	DURSBAN	--	
01	3/14/1996	DURSBAN	--	
02	3/14/1996	DURSBAN	--	
01	3/24/1993	ENDRIN	--	
02	3/24/1993	ENDRIN	--	
01	3/14/1996	ENDRIN	--	
02	3/14/1996	ENDRIN	--	
02	11/17/1999	ENDRIN	--	

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
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SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Synthetic Organic Compounds			µg/L	µg/L
01	12/9/1999	ENDRIN	--	
01	1/17/1995	ETHYLENE DIBROMIDE (EDB)	--	
02	9/26/1995	ETHYLENE DIBROMIDE (EDB)	--	
01	3/14/1996	ETHYLENE DIBROMIDE (EDB)	--	
02	3/14/1996	ETHYLENE DIBROMIDE (EDB)	--	
01	3/14/1996	ETHYLENE DIBROMIDE (EDB)	--	
02	3/14/1996	ETHYLENE DIBROMIDE (EDB)	--	
01	6/23/1997	ETHYLENE DIBROMIDE (EDB)	--	
02	7/30/1997	ETHYLENE DIBROMIDE (EDB)	--	
01	5/22/1998	ETHYLENE DIBROMIDE (EDB)	--	
02	5/22/1998	ETHYLENE DIBROMIDE (EDB)	--	
02	11/17/1999	ETHYLENE DIBROMIDE (EDB)	--	
01	12/9/1999	ETHYLENE DIBROMIDE (EDB)	--	
01	3/24/1993	HEPTACHLOR	--	
02	3/24/1993	HEPTACHLOR	--	
01	3/14/1996	HEPTACHLOR	--	
02	3/14/1996	HEPTACHLOR	--	
02	11/17/1999	HEPTACHLOR	--	
01	12/9/1999	HEPTACHLOR	--	
01	3/24/1993	HEPTACHLOR EPOXIDE	--	
02	3/24/1993	HEPTACHLOR EPOXIDE	--	
01	3/14/1996	HEPTACHLOR EPOXIDE	--	
02	3/14/1996	HEPTACHLOR EPOXIDE	--	
02	11/17/1999	HEPTACHLOR EPOXIDE	--	
01	12/9/1999	HEPTACHLOR EPOXIDE	--	
01	3/14/1996	HEXACHLOROBENZENE (HCB)	--	
02	3/14/1996	HEXACHLOROBENZENE (HCB)	--	
02	11/17/1999	HEXACHLOROBENZENE (HCB)	--	
01	12/9/1999	HEXACHLOROBENZENE (HCB)	--	
01	3/24/1993	HEXACHLOROCYCLOPENTADIENE	--	
02	3/24/1993	HEXACHLOROCYCLOPENTADIENE	--	
01	3/14/1996	HEXACHLOROCYCLOPENTADIENE	--	
02	3/14/1996	HEXACHLOROCYCLOPENTADIENE	--	
02	11/17/1999	HEXACHLOROCYCLOPENTADIENE	--	
01	12/9/1999	HEXACHLOROCYCLOPENTADIENE	--	
02	11/17/1999	METHOMYL	--	
01	12/9/1999	METHOMYL	--	
01	3/24/1993	METHOXYCHLOR	--	
02	3/24/1993	METHOXYCHLOR	--	
01	3/14/1996	METHOXYCHLOR	--	
02	3/14/1996	METHOXYCHLOR	--	
02	11/17/1999	METHOXYCHLOR	--	
01	12/9/1999	METHOXYCHLOR	--	
01	3/24/1993	METOLACHLOR	--	
02	3/24/1993	METOLACHLOR	--	
01	3/14/1996	METOLACHLOR	--	
02	3/14/1996	METOLACHLOR	--	

- -=Not Detected
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SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Synthetic Organic Compounds			µg/L	µg/L
02	11/17/1999	METOLACHLOR	--	
01	12/9/1999	METOLACHLOR	--	
01	3/24/1993	METRIBUZIN (SENCOR)	--	
02	3/24/1993	METRIBUZIN (SENCOR)	--	
01	3/14/1996	METRIBUZIN (SENCOR)	--	
02	3/14/1996	METRIBUZIN (SENCOR)	--	
02	11/17/1999	METRIBUZIN (SENCOR)	--	
01	12/9/1999	METRIBUZIN (SENCOR)	--	
02	11/17/1999	OXAMYL (VYDATE)	--	
01	12/9/1999	OXAMYL (VYDATE)	--	
01	3/24/1993	PENTACHLOROPHENOL	--	
02	3/24/1993	PENTACHLOROPHENOL	--	
01	3/14/1996	PENTACHLOROPHENOL	--	
02	3/14/1996	PENTACHLOROPHENOL	--	
02	11/17/1999	PENTACHLOROPHENOL	--	
01	12/9/1999	PENTACHLOROPHENOL	--	
01	3/24/1993	PICLORAM	--	
02	3/24/1993	PICLORAM	--	
01	3/14/1996	PICLORAM	--	
02	3/14/1996	PICLORAM	--	
02	11/17/1999	PICLORAM	--	
01	12/9/1999	PICLORAM	--	
01	3/24/1993	PROPACHLOR (RAMROD)	--	
02	3/24/1993	PROPACHLOR (RAMROD)	--	
01	3/14/1996	PROPACHLOR (RAMROD)	--	
02	3/14/1996	PROPACHLOR (RAMROD)	--	
02	11/17/1999	PROPACHLOR (RAMROD)	--	
01	12/9/1999	PROPACHLOR (RAMROD)	--	
01	3/24/1993	SIMAZINE	--	
02	3/24/1993	SIMAZINE	--	
01	3/14/1996	SIMAZINE	--	
02	3/14/1996	SIMAZINE	--	
02	11/17/1999	SIMAZINE	--	
01	12/9/1999	SIMAZINE	--	
01	3/24/1993	TOXAPHENE	--	
02	3/24/1993	TOXAPHENE	--	
01	3/14/1996	TOXAPHENE	--	
02	3/14/1996	TOXAPHENE	--	
Radionuclides			pCi/L	pCi/L
00	10/4/1995	GROSS ALPHA	1.8	15
02	11/17/1999	GROSS ALPHA	4	15
02	11/17/1999	GROSS ALPHA	4	15
01	12/9/1999	GROSS ALPHA	--	
02	11/17/1999	GROSS ALPHA (SHORT TERM)	--	
02	11/17/1999	GROSS ALPHA (SHORT TERM)	--	
01	12/9/1999	GROSS ALPHA (SHORT TERM)	--	
00	10/4/1995	GROSS BETA	3.9	50

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
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SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Radionuclides			pCi/L	pCi/L
02	11/17/1999	GROSS BETA	6	50
02	11/17/1999	GROSS BETA	6	50
01	12/9/1999	GROSS BETA	2	50
02	11/17/1999	GROSS BETA (SHORT TERM)	--	
02	11/17/1999	GROSS BETA (SHORT TERM)	--	
01	12/9/1999	GROSS BETA (SHORT TERM)	--	
01	11/9/1994	RADON-222	1545	300
01	6/23/1997	RADON-222	2170	300
02	11/17/1999	RADON-222	735	300
Inorganic Compounds			mg/L	mg/L
02	3/14/1996	ANTIMONY	--	
01	3/14/1996	ANTIMONY	--	
01	12/9/1997	ANTIMONY	--	
02	11/17/1999	ANTIMONY	--	
01	8/30/2000	ANTIMONY	--	
01	3/14/1996	ARSENIC	--	
02	3/14/1996	ARSENIC	--	
01	12/9/1997	ARSENIC	--	
02	11/17/1999	ARSENIC	--	
01	8/30/2000	ARSENIC	0.008	0.05
02	4/17/1995	BARIUM	0.316	2
01	4/17/1995	BARIUM	0.131	2
02	3/14/1996	BARIUM	--	
01	3/14/1996	BARIUM	0.22	2
01	12/9/1997	BARIUM	--	
02	11/17/1999	BARIUM	0.31	2
01	8/30/2000	BARIUM	0.36	2
01	3/14/1996	BERYLLIUM	--	
02	3/14/1996	BERYLLIUM	--	
01	12/9/1997	BERYLLIUM	--	
02	11/17/1999	BERYLLIUM	--	
01	8/30/2000	BERYLLIUM	--	
01	4/17/1995	CADMIUM	--	
02	4/17/1995	CADMIUM	--	
01	3/14/1996	CADMIUM	--	
02	3/14/1996	CADMIUM	--	
01	12/9/1997	CADMIUM	--	
02	11/17/1999	CADMIUM	--	
01	8/30/2000	CADMIUM	--	
02	4/17/1995	CHROMIUM	--	
01	4/17/1995	CHROMIUM	--	
02	3/14/1996	CHROMIUM	--	
01	3/14/1996	CHROMIUM	--	
01	12/9/1997	CHROMIUM	--	
02	11/17/1999	CHROMIUM	--	
01	8/30/2000	CHROMIUM	--	
01	4/17/1995	CYANIDE	--	

- --=Not Detected
*=SDWR
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SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Inorganic Compounds			mg/L	mg/L
02	4/17/1995	CYANIDE	--	
02	4/17/1995	FLUORIDE	--	
01	4/17/1995	FLUORIDE	--	
02	10/27/1998	FLUORIDE	0.2	4
01	10/27/1998	FLUORIDE	0.2	4
01	11/19/1999	FLUORIDE	--	
02	6/12/2001	FLUORIDE	--	
01	4/17/1995	MERCURY	--	
02	4/17/1995	MERCURY	--	
01	3/14/1996	MERCURY	--	
02	3/14/1996	MERCURY	--	
01	12/9/1997	MERCURY	--	
02	11/17/1999	MERCURY	--	
01	8/30/2000	MERCURY	--	
02	3/14/1996	NICKEL	--	
01	3/14/1996	NICKEL	--	
01	12/9/1997	NICKEL	--	
02	11/17/1999	NICKEL	--	
01	8/30/2000	NICKEL	--	
01	11/29/1994	NITRATE	1.2	10
02	11/29/1994	NITRATE	--	
01	4/17/1995	NITRATE	1.1	10
02	9/5/1995	NITRATE	1	10
01	9/5/1995	NITRATE	2	10
01	8/27/1996	NITRATE	0.78	10
02	8/27/1996	NITRATE	1.4	10
02	4/10/1997	NITRATE	1	10
01	4/10/1997	NITRATE	0.97	10
01	4/10/1997	NITRATE	0.97	10
01	10/27/1998	NITRATE	3.2	10
02	10/27/1998	NITRATE	2.4	10
02	5/26/1999	NITRATE	1.4	10
01	5/26/1999	NITRATE	1.6	10
01	11/19/1999	NITRATE	1.6	10
01	8/30/2000	NITRATE	1.5	10
02	8/30/2000	NITRATE	1.2	10
01	3/20/2001	NITRATE	1.4	10
02	8/29/2001	NITRATE	1.66	10
01	1/8/2002	NITRATE	1	10
01	4/17/1995	NITRITE	--	
02	4/17/1995	NITRITE	--	
02	4/17/1995	SELENIUM	--	
01	4/17/1995	SELENIUM	--	
01	3/14/1996	SELENIUM	--	
02	3/14/1996	SELENIUM	--	
01	12/9/1997	SELENIUM	--	
02	11/17/1999	SELENIUM	--	

- --=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF TOWN OF ACCIDENT WATER SAMPLE ANALYSIS

Plant ID	Sample Date	Contaminant Name	Result	MCL
Inorganic Compounds			mg/L	mg/L
01	8/30/2000	SELENIUM	0.002	0.05
01	12/9/1997	SODIUM	27.6	60 +
02	11/17/1999	SODIUM	16.1	60 +
01	4/17/1995	SULFATE	14	250 *
02	4/17/1995	SULFATE	7.4	250 *
02	3/14/1996	THALLIUM	--	
01	3/14/1996	THALLIUM	--	
01	12/9/1997	THALLIUM	--	
02	11/17/1999	THALLIUM	--	
01	8/30/2000	THALLIUM	--	
General Water Quality Parameters				
01	11/9/1994	pH	7.7	6.5-8.5 *
01	6/23/1997	pH	6.5	6.5-8.5 *

- -=Not Detected
*=SDWR
+=Drinking Water Advisory Level
#=Total Trihalomethane

SUMMARY OF MICROBIOLOGICAL CONTAMINANT ANALYSIS FOR ACCIDENT WATER SAMPLES

Sample Date	Samples Taken	Total Coliform	Total Fecal	Total Indeterminate	Sample Repeats	Repeat Coliforms	Repeat Fecal	Repeat Indeterminate
1/1/97	1	0	0	0	--	--	--	--
2/1/97	1	0	0	0	--	--	--	--
3/1/97	1	0	0	0	--	--	--	--
4/1/97	4	0	0	0	--	--	--	--
5/1/97	1	0	0	0	--	--	--	--
6/1/97	1	0	0	0	--	--	--	--
7/1/97	1	0	0	0	--	--	--	--
8/1/97	1	0	0	0	--	--	--	--
9/1/97	1	0	0	0	--	--	--	--
10/1/97	1	0	0	0	--	--	--	--
11/1/97	1	0	0	0	--	--	--	--
12/1/97	1	0	0	0	--	--	--	--
1/1/98	1	0	0	0	--	--	--	--
2/1/98	1	0	0	0	--	--	--	--
3/1/98	1	0	0	0	--	--	--	--
4/1/98	1	0	0	0	--	--	--	--
5/1/98	1	0	0	0	--	--	--	--
6/1/98	1	0	0	0	--	--	--	--
7/1/98	1	0	0	0	--	--	--	--
8/1/98	1	0	0	0	--	--	--	--
9/1/98	1	0	0	0	--	--	--	--
10/1/98	1	0	0	0	--	--	--	--
11/1/98	1	0	0	0	--	--	--	--
12/1/98	1	0	0	0	--	--	--	--
1/1/99	1	0	0	0	--	--	--	--
2/1/99	1	0	0	0	--	--	--	--
3/1/99	1	0	0	0	--	--	--	--
4/1/99	1	0	0	0	--	--	--	--
5/1/99	1	0	0	0	--	--	--	--
6/1/99	1	0	0	0	--	--	--	--
7/1/99	1	0	0	0	--	--	--	--
8/1/99	1	0	0	0	--	--	--	--
9/1/99	1	0	0	0	--	--	--	--
10/1/99	1	0	0	0	--	--	--	--
11/1/99	1	0	0	0	--	--	--	--
12/1/99	1	0	0	0	--	--	--	--
1/1/00	1	0	0	0	--	--	--	--

-- not applicable

SUMMARY OF MICROBIOLOGICAL CONTAMINANT ANALYSIS FOR ACCIDENT WATER SAMPLES

Sample Date	Samples Taken	Total Coliform	Total Fecal	Total Indeterminate	Sample Repeats	Repeat Coliforms	Repeat Fecal	Repeat Indeterminate
2/1/00	1	0	0	0	--	--	--	--
3/1/00	1	0	0	0	--	--	--	--
4/1/00	1	0	0	0	--	--	--	--
5/1/00	1	0	0	0	--	--	--	--
6/1/00	1	0	0	0	--	--	--	--
7/1/00	1	0	0	0	--	--	--	--
8/1/00	1	0	0	0	--	--	--	--
9/1/00	1	0	0	0	--	--	--	--
10/1/00	1	0	0	0	--	--	--	--
11/1/00	1	0	0	0	--	--	--	--
12/1/00	1	0	0	0	--	--	--	--
1/1/01	1	0	0	0	--	--	--	--
2/1/01	1	0	0	0	--	--	--	--
3/1/01	1	0	0	0	--	--	--	--
4/1/01	1	0	0	0	--	--	--	--
5/1/01	1	0	0	0	--	--	--	--
6/1/01	1	0	0	0	--	--	--	--
7/1/01	1	0	0	0	--	--	--	--
8/1/01	1	0	0	0	--	--	--	--
9/1/01	1	0	0	0	--	--	--	--
10/1/01	1	0	0	0	--	--	--	--
11/1/01	1	0	0	0	--	--	--	--
12/1/01	1	0	0	0	--	--	--	--
1/1/02	1	0	0	0	--	--	--	--
2/1/02	1	0	0	0	--	--	--	--
3/1/02	1	0	0	0	--	--	--	--
4/1/02	1	0	0	0	--	--	--	--
5/1/02	1	0	0	0	--	--	--	--
6/1/02	1	0	0	0	--	--	--	--
7/1/02	1	0	0	0	--	--	--	--

-- not applicable

GROUND WATER UNDER DIRECT INFLUENCE (GWUDI)
OF SURFACE WATER FOR ACCIDENT

Plant ID	Sample Date	Temp (C)	pH	Turbidity (NTU)	Total Coliform (org/100 mL)	Total Fecal (org/100 mL)
01	12/9/98	--	6.35	0.18	4.2	--
02	12/9/98	--	7.75	0.1	--	--

-- = non detect