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GROUNDWATER QUALITY ASSESSMENT
FOR THE BEAR CREEK HYDROGEOLOGIC REGIME
AT THE Y-12 PLANT

1991 Groundwater Quality Data
and Calculated Rate
of Contaminant Migration

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Prepared by

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for

Environmental Management Department
Health, Safety, Environmental, and Accountability Division
Oak Ridge Y-12 Plant
Oak Ridge, Tennessee 37831

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ACRONYMS

ANAP	Abandoned Nitric Acid Pipeline
ARAR	Applicable, Relevant, and Appropriate Requirement
BCHR	Bear Creek Hydrogeologic Regime
BCV	Bear Creek Valley
BCK	Bear Creek Kilometer
BQR	Blank Qualification Result
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOE	U.S. Department of Energy
EMD	Environmental Monitoring Database
EPA	U.S. Environmental Protection Agency
FFA	Federal Facility Agreement
GWPP	Groundwater Protection Program
GWQAR	Groundwater Quality Assessment Report
H&R	H&R Technical Associates, Inc.
HSEA	Health, Safety, Environment, and Accountability (Division)
K-25	Oak Ridge K-25 Site
MCL	Maximum Contaminant Level
NPL	National Priority List
ORNL	Oak Ridge National Laboratory
ORR	Oak Ridge Reservation
PIDAS	Perimeter Intrusion Detection and Alarm System

ACRONYMS - (cont'd)

PCB	Polychlorinated biphenyl
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RI/FS	Remedial Investigation/Feasibility Study
SOP	Standard Operating Procedure
SWMU	Solid Waste Management Unit (RCRA)
TDEC	Tennessee Department of Environment and Conservation
T/S/D	Treatment, Storage, and Disposal (Unit)
UEFPCHR	Upper East Fork Poplar Creek Hydrogeologic Regime
VOC	Volatile Organic Compound
WMA	Waste-Management Area

1.0 INTRODUCTION

This report contains groundwater and surface water quality data obtained during the 1991 calendar year at several hazardous and non-hazardous waste management facilities associated with the U.S. Department of Energy (DOE) Y-12 Plant (Figure 1). These sites are southwest of the Y-12 Plant complex within the Bear Creek Hydrogeologic Regime (BCHR), which is one of three regimes defined for the purposes of groundwater and surface-water quality monitoring and remediation (Figure 2). The Environmental Management Department of the Y-12 Plant Health, Safety, Environment, and Accountability (HSEA) Division manages the monitoring activities in each regime as part of the Y-12 Plant Groundwater Protection Program (GWPP).

1.1 Purpose

This report was prepared for informational purposes. Included are the analytical data for groundwater samples collected from selected monitoring wells in the BCHR and surface-water samples collected from selected locations along Bear Creek during 1991, and the results for quality assurance/quality control (QA/QC) samples associated with each groundwater and surface-water sample. This report also contains summaries of the 1991 data, including ion-charge balances determined for each groundwater and surface-water sample, a summary of analytical results for nitrate (a principle contaminant in the BCHR), results of volatile organic compounds (VOCs) analyses validated using the associated QA/QC sample data, a summary of trace metal concentrations which exceeded drinking-water standards, and a summary of radiochemical data.

1.2 Background

Investigations of contaminant releases from waste management sites in the BCHR have been in progress since the early 1980s. In 1986, groundwater monitoring under the Resource Conservation and Recovery Act (RCRA) was initiated at the three primary waste sites, the S-3 site, the Oil Landfarm waste management area (WMA), and the Bear Creek Burial Grounds WMA. Monitoring at these sites has been performed in accordance with the RCRA regulations

for interim status hazardous waste treatment, storage, and disposal (T/S/D) facilities. Other waste management sites in the BCHR (the Abandoned Nitric Acid Pipeline, Spoil Area I, and the Rust Spoil Area) were identified in 1987 as RCRA solid waste management units (SWMUs) (Welch *et al.* 1987), and groundwater monitoring in support of RCRA Facility Investigations (RFIs) at these sites was initiated in 1988. In 1989, groundwater monitoring activities at all of the sites in the BCHR were combined into a single program that has been performed and reported in accordance with RCRA interim status assessment monitoring requirements.

In November 1989 the Oak Ridge Reservation (ORR) was included on the National Priority List (NPL) for environmental restoration under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). A Federal Facility Agreement (FFA) between the DOE, the U.S. Environmental Protection Agency (EPA), and the Tennessee Department of Environment and Conservation (TDEC) negotiated in response to the NPL listing of the ORR changed the regulatory status of the hazardous wastes sites in the BCHR from RCRA to CERCLA, with RCRA as an applicable, relevant, and appropriate requirement (ARAR) (U.S. Department of Energy 1991). Future groundwater quality monitoring at these sites will be performed in support of a CERCLA remedial investigation/feasibility study (RI/FS) and in accordance with the requirements of the FFA.

Because of the change in regulatory status of the hazardous-wastes sites in the BCHR, this document may be the last formal groundwater quality assessment report (GWQAR) prepared for the regime. Consistent with past years, the GWQAR is completed in two parts. Part I (this report) contains the groundwater quality data and a calculated rate of contaminant migration; reporting requirements under RCRA interim status assessment monitoring. Part II will contain a detailed evaluation of the data and proposed modifications for continued monitoring based on the data evaluation.

2.0 SITE DESCRIPTIONS

Located west of the Y-12 Plant in Bear Creek Valley (BCV), the BCHR is bound to the north by Pine Ridge and to the south by Chestnut Ridge (directions in this report are in reference to the Y-12 Plant grid system). The regime encompasses the portion of BCV extending from the west end of the Y-12 Plant to the western end of the Bear Creek Burial Grounds WMA (Figure 2). Table 1 lists the waste-management sites in the BCHR, and Figure 3 shows the locations of these sites.

2.1 S-3 Site

The S-3 Site is next to the west end of the Y-12 Plant (Figure 3), just west of the groundwater flow divide separating the BCHR from the Upper East Fork Poplar Creek Hydrogeologic Regime (UEFPCHR). Constructed in 1951, the site originally consisted of four unlined surface impoundments covering an area of roughly 400 x 400 feet (ft). The original pond excavations did not extend into bedrock, and each pond had a storage capacity of about 2.5 million gallons (Geraghty & Miller, Inc. 1988a).

Wastes discharged into the ponds consisted primarily of nitric and other acids, nitrate wastes, pickling and plating wastes, machine coolants, caustic solutions, depleted uranium in nitric acid solution, technetium in raffinate and condensate, and miscellaneous liquid wastes (mop waters) associated with routine clean-up and operations at the Y-12 Plant. Waste disposal at the site ceased in 1984 (Geraghty & Miller, Inc. 1988a).

In 1988 the S-3 Ponds were closed as a landfill in accordance with a TDEC approved RCRA closure plan (Martin Marietta Energy Systems 1988a). When closed, the ponds contained 2 to 5 ft of sludge produced during in-situ denitrification and neutralization of wastewater in the ponds, and a small volume of contaminated sediments removed from Bear Creek downstream of the site. The sludge was not leachable in weak acid and groundwater (Geraghty & Miller, Inc. 1988a). During closure, the sludge and sediments were stabilized with coarse aggregate and the ponds were covered with a low-permeability engineered cap. Construction of an asphalt parking

lot over the cap completed final closure of the site. The TDEC certified final closure of the site on November 15, 1990 (pers. comm. W. McMahon, February 1991).

2.2 Oil Landfarm Waste Management Area

The Oil Landfarm WMA is approximately one mile west of the Y-12 Plant (Figure 3), and consists of the Oil Landfarm, the Boneyard, the Burnyard, the Chemical Storage Area, and the Sanitary Landfill I. Figure 4 illustrates the components of the Oil Landfarm WMA.

The Oil Landfarm consisted of three areas where waste oils and coolants were applied to nutrient-adjusted soil during the dry months of the year (April to October) to enhance biodegradation. These oils and coolants contained beryllium compounds, depleted uranium, polychlorinated biphenyls (PCBs), and VOCs. Approximately one million gallons of waste oil were applied to soils at the site between 1973 and 1982 (Geraghty & Miller, Inc. 1988b). In 1989 the site was covered with a low-permeability engineered cap in accordance with a TDEC approved RCRA closure plan (Martin Marietta Energy Systems, Inc. 1988b). The TDEC certified final closure of the site on December 15, 1990 (pers. comm. W. McMahon, February 1991).

The Boneyard was used for the disposal of magnesium chips and construction debris (e.g., concrete) in unlined shallow trenches. The magnesium chips were placed in the trenches and burned, and residues were covered with soil and compacted. Filled trenches were covered with top soil and seeded with grass (Geraghty & Miller, Inc. 1988b).

The Burnyard consisted of two unlined trenches about 300 ft long by 40 ft wide. Between 1943 and 1968, various types of refuse (including pesticide containers, metal shavings, solvents, oils, and laboratory chemicals) were burned in the trenches. Some residues may have been buried in the Boneyard (Geraghty & Miller, Inc. 1988b).

The Chemical Storage Area was constructed on top of the Burnyard and used as an area for releasing compressed gas from cylinders with leaking or damaged valves, and for disposal of reactive or explosive laboratory chemicals. Gas in the damaged cylinders was allowed to leak into the atmosphere or was bled off; corrosive gases were bled through neutralizing slurries. Laboratory chemicals disposed at the site included acids, bases, organics, water-reactive

compounds, and shock-sensitive compounds such as picric acid. The chemicals were handled to induce the expected reaction or explosion, and remaining liquids were discharged into a small unlined surface impoundment (Geraghty & Miller, Inc. 1988b).

Sanitary Landfill I is south of the Oil Landfarm next to Bear Creek (Figure 4). The TDEC permitted the site for disposal of non-hazardous wastes generated at the Y-12 Plant, including paper, cardboard, plastics, rubber, wood, brush, organic refuse, textile products, and asphalt roofing materials. Waste disposal at the site started in 1968 (pers. comm. D. Bohrman, February 1992) and the site contained about 105,000 tons of waste when disposal activities ceased in 1982 (Geraghty & Miller, Inc. 1988b). In 1983 the site was graded and capped in accordance with a TDEC approved closure plan (Bailey 1983).

2.3 Bear Creek Burial Grounds Waste Management Area

The Bear Creek Burial Grounds WMA is approximately two miles west of the Y-12 Plant (Figure 3), and includes several waste disposal units designated Burial Grounds A (North and South), B, C, D, E, and J, and two ponds (Oil Retention Ponds No. 1 and 2) (Figure 5). Each disposal unit consisted of multiple trenches excavated 14 to 25 ft below grade that were used for disposal of liquid and/or solid wastes. Perforated stand-pipes installed vertically in some trenches were used for liquid waste disposal; rock and gravel were backfilled around the standpipes for support and to maximize the drainage rate. Oil Retention Ponds No. 1 and 2 were constructed to collect oils seeping from disposal trenches in Burial Ground A South, and A North, respectively (Figure 5).

Burial Grounds A (North and South) and C primarily received liquid wastes that generally consisted of waste oils and coolants, spent solvents, and mop waters. Solid wastes disposed at the site included salts, metals (primarily beryllium and uranium) and metal oxides, metal saw-fines, and asbestos. Although some disposal units currently receive non-hazardous solid wastes, all hazardous waste disposal activities ceased in 1981 (Geraghty & Miller, Inc. 1988c).

Burial Grounds A (North and South), C, and the two Oil Retention Ponds were closed in 1988 and 1989 in accordance with TDEC approved RCRA closure plans (Martin Marietta Energy Systems, Inc. 1988c and 1988d). The TDEC certified final closure of Burial Ground A (North and South) on December 15, 1989. Certification of final closure of Burial Ground C was requested from the TDEC on December 27, 1990. The TDEC certified final closure of Oil Retention Ponds No. 1 and 2 on November 15, 1990, and December 11, 1990, respectively (pers. comm. W. McMahon, February 1991).

2.4 Abandoned Nitric Acid Pipeline

Only a small section of the Abandoned Nitric Acid Pipeline (ANAP) lies within the BCHR (Figure 3); most of the pipeline is within the Y-12 Plant complex in the UEFPCHR. Used between 1951 and 1983, the pipeline originally transported effluent derived from operations in Buildings 9212 and 9206 to the S-3 Ponds for disposal. Subsequently, the pipeline was also connected to the uranium recovery process lines from the H-1 Foundry (Building 9998). During its operation an estimated 5,500 gallons per day of effluent, which generally consisted of nitric acid with uranium in solution, was pumped through the pipeline to the S-3 ponds. An RFI Plan contains a detailed discussion of the operational history of the ANAP (Geraghty & Miller, Inc. 1989a).

Available construction drawings show that the ANAP was constructed of 1.5 to 3-inch diameter 347 stainless-steel pipe. Some sections of the pipeline may have been constructed with 6-inch diameter stainless steel. The pipeline was buried up to 14 ft below ground level and sections that passed over water or sewer lines were encased in concrete. According to drawings generated during the construction of the Y-12 Plant Perimeter Intrusion Detection and Alarm System (PIDAS), sections of the pipeline may have been abandoned and rerouted during its operational period (Geraghty & Miller, Inc. 1989a).

2.5 Spoil Area I

Spoil Area I is located on the northern slope of Chestnut Ridge, west of the Y-12 Plant near the intersection of Old Bear Creek Road and West Patrol Road (Figure 3). The five-acre site has been used since about 1980 for disposal of non-radioactive construction debris. The TDEC permitted the site in 1986 (Permit No. DML011030012) for disposal of rubble and other non-combustible, stable solid wastes (Tennessee Department of Health and Environment 1986). The site has received approximately 100,000 cubic yards of debris, including asphalt, brick, concrete, roofing materials, brush, steel rebar, rock, and tile. An RFI Plan prepared for the site contains a detailed discussion of its operational history (Battelle Columbus Division 1989a).

2.6 SY-200 Yard

The SY-200 Yard is located south of Bear Creek near the base of the northern slope of Chestnut Ridge, approximately one-half mile west of the Y-12 Plant (Figure 3). Operated from the 1950s to 1986, the SY-200 Yard was a 300 by 200 ft gravel-covered area used for temporary storage of equipment, machinery, and miscellaneous items. Records indicate that waste materials were not disposed or stored at the site. An RFI Plan for the site contains a detailed discussion of its operational history (Geraghty & Miller, Inc. 1989b).

2.7 Rust Spoil Area

The Rust Spoil Area is a 5.4-acre site located west of the SY-200 Yard (Figure 3), and was used between 1975 and 1983 by Rust Engineering for the disposal of solid wastes (spoil) generated during various renovation, maintenance, and construction operations at the Y-12 Plant. Less than 100,000 cubic yards of non-radioactive construction debris are estimated to have been disposed at the site. Waste materials were primarily soil fill, masonry, and concrete with steel rebar, but materials containing solvents, asbestos, mercury, and uranium also may have been disposed at the site (Battelle Columbus Division 1989b). Closure of the site was completed in 1984 in accordance with a TDEC approved closure plan (MCI Consulting Engineers 1983). An

RFI Plan for the site contains a detailed discussion of its operational history (Battelle Columbus Division 1989b).

3.0 HYDROLOGIC FRAMEWORK

The following discussion of the hydrology in the BCHR provides a basic overview of the geology and groundwater system in the area. The hydrogeologic system in the BCHR is highly complex and this overview is not comprehensive. A detailed discussion of the hydrogeologic framework for the ORR is provided in Solomon *et al.* (1991).

3.1 Groundwater System

The groundwater system in the BCHR generally behaves as a single aquifer consisting of two zones: (1) an upper zone of unconsolidated material, and (2) a lower bedrock zone consisting of the fractured limestone and shale formations of the Conasauga Group (Figure 6). Groundwater occurs under water-table conditions, but is increasingly confined with depth in the bedrock zone. Pine Ridge and Chestnut Ridge are the primary recharge areas for the groundwater system in the BCHR. Groundwater generally flows from the recharge areas toward the axis of BCV and discharges into Bear Creek and its tributaries. Flow in BCV in this regime is generally to the west along geologic strike.

3.1.1 Unconsolidated Zone

The unconsolidated zone in the BCHR is generally composed of alluvium, colluvium, man-made fill, residuum from the weathering of the underlying bedrock, and weathered bedrock. The thickness of the unconsolidated zone varies, but is typically less than 40 ft in BCV (Geraghty & Miller, Inc. 1987). Groundwater in the unconsolidated zone occurs in the stormflow zone, the vadose zone, and the saturated zone below the water table.

Investigations at the Oak Ridge National Laboratory (ORNL) in nearby Bethel Valley (Figure 1) show that groundwater occurs intermittently above the water table in the stormflow zone that extends from ground surface to a depth of about 6 ft (Moore 1989). Bethel Valley and BCV are similar and a stormflow zone in BCV may also be present. Openings for lateral flow in the stormflow zone are macropores and mesopores, which are connected voids created by

various processes, including biochanneling, cracking, and soil particle aggregation (Moore 1989). This zone is thicker and more permeable in forested areas than in grassy or brushy areas, and is more permeable near the land surface than at deeper levels (Moore 1989). Water is present in the stormflow zone during, and for relatively short periods after, significant rainfall events; most of the water is lost to evapotranspiration and much of the remaining water discharges at nearby seeps, springs, and streams. Analysis of infiltrometer test results suggests that the hydraulic conductivity of the stormflow zone averages about 29 feet per day (ft/day) near the top and 0.1 ft/day near the base (Moore 1989). Lateral flow in the stormflow zone is intermittent, lasting a few days to a few weeks after precipitation. Flow is fairly rapid when the zone is full of water but relatively slow when nearly drained (Moore 1989).

The vadose zone occurs between the stormflow zone and the water table. Water is added to the vadose zone by percolation from the stormflow zone and is removed by transpiration and recharge to the water table. The vadose zone is unsaturated except in the capillary fringe above the water table and within wetting fronts during periods of vertical percolation from the stormflow zone (Moore 1989). A geometric mean hydraulic conductivity of about 0.006 ft/day was determined from analysis of infiltrometer tests in the vadose zone (Moore 1989).

The water table occurs in the unconsolidated zone near the top of bedrock. Results of hydraulic conductivity tests indicate that the unconsolidated zone is generally more permeable than the underlying bedrock; hydraulic conductivity ranges between 0.03 ft/day in regolith overlying the Maryville Limestone to 3.25 ft/day in regolith overlying the Nolichucky Shale (Connell and Bailey 1989).

The shape of the water table reflects surface topography, with steep gradients along the flanks of Pine Ridge and Chestnut Ridge and a gentle slope southwest down the axis of BCV (Figure 7). Horizontal gradients range from 0.039 to 0.075 on the southern flank of Pine Ridge, and from 0.009 to 0.017 along the axis of BCV.

Vertical hydraulic gradients are primarily downward from the unconsolidated zone to the bedrock zone, but upward gradients from the bedrock to the unconsolidated zone are also present. Downward gradients are generally less than 0.2. Upward gradients range from 0.033 to 0.057. Other than the location of the monitoring-well pairs north of Bear Creek, there is no

discernible pattern to the occurrence of upward gradients with respect to well depths, bedrock formations, surface elevations, or proximity to drainage features.

Groundwater in the unconsolidated zone is generally a calcium-magnesium-bicarbonate type. The chemistry of the groundwater in the unconsolidated zone is fairly uniform throughout the BCHR with some variation in the chloride content (HSW Environmental Consultants, Inc. 1991).

3.1.2 Bedrock Zone

Groundwater in the bedrock zone occurs in bedding planes, fractures, joints, and solution cavities within the formations of the Conasauga Group. Enlarged fractures and cavities form the primary water-producing and solute transport intervals. These intervals are fed by seepage through fractures in the rock matrix, which are more numerous than the enlarged fractures and cavities, are interconnected, and provide the continuity for groundwater flow paths (Moore 1989).

The formations that comprise the Conasauga Group are, from youngest to oldest, the Maynardville Limestone, Nolichucky Shale, Maryville Limestone, Rogersville Shale, Rutledge Limestone, and Pumpkin Valley Shale (Figure 6). The lithologic composition of these formations plays an important role in the occurrence and movement of groundwater in the bedrock zone. Estimates of the hydraulic conductivity of the Conasauga Group formations have been derived from field tests performed by Golder Associates (1987), Ketelle (1988), Rothschild *et al.* (1984), Bechtel National, Inc. (1984), Law Engineering Testing Company (1983), and Geraghty & Miller, Inc. (1986); these test results are summarized in Geraghty & Miller, Inc. (1989c).

The Maynardville Limestone consists of between 418 and 450 ft of fine to coarse grained, thin-bedded to massive limestones and dolostones (King and Haase 1987). The average hydraulic conductivity of the Maynardville Limestone, determined from data reported in Geraghty & Miller, Inc. (1989c), is 21.9 ft/day, which is higher than that of any other Conasauga Group formation. Consequently, the Maynardville Limestone is considered to be a hydrologic drain for the BCHR and may be the primary conduit for solute transport.

The Nolichucky Shale, which underlies the Maynardville Limestone, consists of 422 to 550 ft of predominantly massive to thin-bedded siltstones with interbedded limestones (King and Haase 1987). In comparison with the Maynardville Limestone, the hydraulic conductivity of the Nolichucky Shale is low, averaging about 1.2 ft/day. The Nolichucky Shale directly underlies many waste sites in the BCHR (Figure 6) and its low hydraulic conductivity has generally restricted the extent of plume migration at these sites.

The lithologic composition of the Maryville Limestone in the BCHR differs very little from that of the overlying Nolichucky Shale, and consists of 346 to 445 ft of thin to medium-bedded limestones interbedded with calcareous mudstones and siltstones (King and Haase 1987). The average hydraulic conductivity of the Maryville Limestone is about 0.4 ft/day.

Beneath the Maryville Limestone are the massive mudstones of the Rogersville Shale and the interbedded limestones and shales of the Rutledge Limestone. The thickness of each of these formations ranges from 90 to 120 ft (King and Haase 1987). The hydraulic conductivity of these formations ranges from 0.0046 to 0.55 ft/day (Connell and Bailey 1989).

The oldest Conasauga Group formation, the Pumpkin Valley Shale, consists of 290 to 330 ft of massive shale and mudstone with thin beds of siltstone and sandstone (King and Haase 1987). The hydraulic conductivity of this formation ranges from 0.0046 to 0.81 ft/day (Geraghty & Miller, Inc. 1989c).

The distribution and orientation of bedding planes, fractures, joints, and solution cavities generally control the movement of groundwater in the Conasauga Group formations and impart a high degree of anisotropy to the bedrock zone. Ellipsoidal water-level drawdown patterns observed during aquifer pumping tests, elongated parallel to geologic strike, have been interpreted to represent preferred strike-parallel flow paths (Law Engineering Testing Company 1983; Geraghty & Miller, Inc. 1986).

Strike and dip of bedding in the BCHR is generally N 55° E and 45° SE, respectively; however, small scale folds produce a variety of local bedding orientations (King and Haase 1987). One major joint set roughly parallels strike and dip of bedding, a second steeply dipping set parallels geologic strike, and a third steeply dipping set trends perpendicular to strike (Dreier et al. 1987). The parallel alignment of Bear Creek tributaries located along the slope of Pine Ridge probably represent the surface expression of joints and fractures in the bedrock (Geraghty

& Miller, Inc. 1985). Solution cavities produced by dissolution of carbonates are common, particularly in the Maynardville Limestone. These features range from less than one inch to tens of feet in thickness, and commonly occur in the upper part of the saturated zone (Geraghty & Miller, Inc. 1985; pers. comm. R. Dreier, February 1992).

Groundwater elevations in shallow bedrock (generally less than 100 ft below ground surface) are illustrated on Figure 8. As in the unconsolidated zone (Figure 7), the shape of the water table reflects surface topography, with steep gradients along the flanks of Pine Ridge and Chestnut Ridge and a gentle slope southwest down the axis of BCV. The horizontal hydraulic gradient averages about 0.046 across BCV (strike-normal) and about 0.012 along the axis of BCV (strike-parallel). However, because of the anisotropy of the bedrock zone, the water-elevation contours only show the general direction of groundwater movement.

Vertical hydraulic gradients in the bedrock zone range from 0.001 to 0.51. Downward gradients are more common in the Maynardville Limestone and range from 0.056 to 0.51. Upward vertical gradients in the Maynardville generally occur only in well pairs with monitored intervals at least 125 ft below the ground surface. Upward vertical gradients are more common in the Nolichucky Shale and range from 0.013 to 0.196. Downward vertical gradients in the Nolichucky Shale were noted only in well pairs located southwest of the Oil Landfarm WMA.

Groundwater chemistry in bedrock formations of the BCHR changes significantly with depth. Haase and King (1990) interpreted these changes to represent a natural chemical evolution of groundwater from a calcium-magnesium-bicarbonate type at shallow depths (less than 80 ft below ground surface), through a sodium-bicarbonate type at intermediate depths (80 to 300 ft), to a sodium-chloride type at depths greater than 500 ft.

3.2 Surface-Water System

The surface-water system in the BCHR consists of Bear Creek and its tributaries. The headwaters of Bear Creek are near the west end of the Y-12 Plant near the S-3 Site (Figure 9). From its headwaters, the creek flows west for approximately 4-1/2 miles, where it turns north to flow into East Fork Poplar Creek about 6 miles upstream of the Clinch River.

Several sections of Bear Creek were modified since construction of the Y-12 Plant. The channel at the original headwaters was filled with rubble during construction of the S-3 Ponds and moved to its present location, and sections of the creek north of the Rust Spoil Area, east and south of the Oil Landfarm WMA, and south of the Bear Creek Burial Grounds WMA were re-routed. Spring SS-4, which discharges to Bear Creek south of the Bear Creek Burial Grounds WMA (Figure 9), may be a seepage face for groundwater moving through the buried original creek channel (Geraghty & Miller, Inc. 1989d).

The highest flows in Bear Creek occur during winter and spring, in response to precipitation. Low flows occur during late summer and early fall, when several tributaries go dry and parts of the main channel within the BCHR are dry. After periods of rainfall, the first several hundred feet of the channel may contain water from surface runoff, but at other times the channel remains dry for about 700 ft downstream of the S-3 Site. Flow in the creek during periods of rainfall is usually of short duration with rapid recession and no observed overbank flow (Geraghty & Miller, Inc. 1987).

Along much of its course through the BCHR, Bear Creek lies entirely within the outcrop area of the Maynardville Limestone, and to a large extent, preferential solution along joints and fractures controls the position of the channel (Geraghty & Miller, Inc. 1987). Drilling activities in the Maynardville near Bear Creek have indicated that solution cavities occur throughout this formation, and are an integral part of the Bear Creek flow system (Geraghty & Miller, Inc. 1987).

Because of the hydrologic interaction between the creek and the solution cavity system in the Maynardville Limestone, Bear Creek contains influent (losing) reaches where water discharges from the creek to the groundwater system, and effluent (gaining) reaches where the creek receives groundwater discharge. A dye-tracer study was performed to evaluate these hydrologic interactions, and a review of historical stream flow data performed as part of the study indicated that Bear Creek loses flow during extreme low-flow conditions over much of its length in the BCHR. During normal flow conditions, Bear Creek loses flow in its upper reaches but gains flow in its lower reaches downstream of the Bear Creek Burial Grounds WMA. Results of the dye test also produced strong evidence that the surface water lost through influent

reaches of Bear Creek between the Oil Landfarm WMA and the Bear Creek Burial Grounds WMA discharges back into the creek from Spring SS-5 (Geraghty & Miller, Inc. 1989d).

4.0 1991 ASSESSMENT PROGRAM

The following sections describe the groundwater and surface water quality monitoring activities performed during the 1991 assessment program. Included are descriptions of the monitoring-well network, surface-water sampling locations, sampling procedures, analytical parameters, and data management.

4.1 Sampling Locations

Groundwater samples were collected from selected monitoring wells primarily to delineate contaminant plume boundaries. Groundwater and surface water samples also were collected from selected locations for exit-pathway monitoring, which was initiated in 1989 to provide data on the quality of groundwater and surface water exiting the BCHR.

4.1.1 Monitoring-Well Network

The 1991 monitoring-well network changed from that used during 1990, as proposed in Part II of the 1990 GWQAR for the BCHR (HSW Environmental Consultants, Inc. 1991). Several "internal plume" wells that had been sampled for at least four consecutive quarters were dropped from the network, and several exit-pathway wells installed during 1990 and 1991 were added. Sampling of the wells included in the revised network was initiated in the third quarter of 1991. Consequently, the 1991 groundwater quality data was obtained from wells included in the 1990 monitoring-well network (first and second quarter 1991) and wells included in the 1991 monitoring-well network (third and fourth quarter 1991). The locations of the monitoring wells sampled during 1991 are shown on Figure 10. The depth of the screened or open hole interval, the aquifer zone, and the bedrock formation monitored by each well are provided in Table 2. Detailed well construction information is contained in Appendix C.

4.1.2 Surface-Water Sampling Stations

Surface water samples were collected from one background location and four downstream locations along Bear Creek (Figure 9). The background station (NT-13) is in a northern tributary (NT) to Bear Creek that is not believed to have been affected by waste-management activities in the BCHR. Sampling locations along Bear Creek are designated by the distance (in kilometers) from the confluence of Bear Creek and East Fork Poplar Creek. The four Bear Creek sampling locations include Bear Creek Kilometer (BCK) 0.63, BCK 4.55, BCK 9.40, and BCK 11.97. The rationale for the selection of these sampling locations is provided in Table 3.

4.2 Sample Collection and Analysis

Groundwater and surface-water samples were collected quarterly by personnel from the Oak Ridge K-25 Site (K-25) Sampling and Environmental Support Department. Personnel from the Y-12 Plant Environmental Surveillance Section of the HSEA Division collected the surface water samples. To minimize the potential for cross-contamination, the monitoring wells were sampled during each quarterly event in the sequences listed in Appendix D. The sequences generally reflect sampling from least contaminated wells to the most contaminated wells at a site or in a sampling group (a series of monitoring wells grouped for sampling and data-tracking purposes). The depth to water in each monitoring well was determined before samples were collected.

Groundwater sampling was performed in accordance with the most recent version of the Standard Operating Procedure (SOP) 8102 approved by the Y-12 Plant GWPP Manager. Descriptions of the field methods and procedures used to collect the groundwater and surface water samples are contained in Environmental Surveillance Procedures Quality Control Program, Martin Marietta Energy Systems, Inc. (Kimbrough et al. 1987). The EPA (Region IV) and the TDEC have approved these methods and procedures (U.S. Environmental Protection Agency 1988a).

Groundwater and surface water samples were analyzed for the parameters and constituents listed in Table 4. Included are the primary groundwater contaminants, suspected groundwater

contaminants that warrant further monitoring, water-quality parameters, such as major ions needed for a complete analysis of groundwater and surface water chemistry, and field measurements. The K-25 Analytical Chemistry Department performed most laboratory analyses of the groundwater and surface water samples; the ORNL Analytical Chemistry Division performed selected radiochemical analyses.

4.3 Quality Assurance/Quality Control Sampling

The QA/QC samples included laboratory blanks, trip blanks, equipment rinsates, and duplicate groundwater samples. The QA procedures followed by the K-25 Analytical Chemistry Department for the VOC analyses are those associated with the EPA Contract Laboratory Program for the analysis of the Target Compound List of parameters.

Laboratory blank samples were samples of organic-free deionized water that were analyzed along with the groundwater and surface water samples. Trip blanks were samples of organic-free deionized water transported unopened in coolers containing groundwater and/or surface water samples for VOC analyses. Equipment rinsates were samples of the organic-free deionized water used to decontaminate the groundwater sampling equipment, and were collected after sampling the last (i.e. most contaminated) well at a site or in a sampling group. Duplicate groundwater samples were collected at a frequency of at least one per sampling group, or one for every ten monitoring wells, whichever was greater.

4.4 Data Management

After completion of each quarterly sampling and analysis event, the K-25 and ORNL laboratories transmitted the field and laboratory data to H&R Technical Associates, Inc. (H&R) for entry into the Y-12 Plant Environmental Monitoring Database (EMD). A series of computer-based procedures verified the data transfer, and evaluated the data for errors and questionable or suspect results. A summary of these procedures follows. Detailed descriptions are provided in Mercier and Turner (1990).

H&R used a two-step procedure to verify that the data received from each laboratory matched the backup documentation (laboratory reports and field data sheets). The first step in this procedure depended on how the analytical laboratories transferred the data. If the data were transferred electronically, a computer program verified that the parameter names were correct, correct units were reported, and the values reported for each parameter were within an expected range or were valid numeric values. If transferred via hardcopy, the data were manually input into the EMD. A double-entry procedure was used to verify the data input; the data were input by one person into one data file and by a second person into a second data file. A computer program then compared the two input data files and identified any discrepancies, which were then accounted for and corrected. The second step of the data verification procedure involved visually checking the data against the laboratory reports and field data sheets for completeness and obvious data outliers. H&R contacted the appropriate laboratory to resolve incomplete data transfers and questions regarding data outliers.

Upon completion of the data verification procedures, a computer program scanned the monitoring data, flagged questionable or suspect data based on pre-defined criteria, and prepared a report for transmittal to the appropriate laboratory. This data evaluation program calculated ion-charge balances for each sample, identified changes in analytical detection limits, validated analytical results for VOCs using the QA/QC sample data in accordance with an EPA validation procedure (U.S. Environmental Protection Agency 1988b), summarized VOC sample holding times, and performed comparisons of: (1) calculated specific conductance and field and laboratory conductivity measurements, (2) sample alkalinities (carbonate and bicarbonate) and pH, (3) field replicate measurements, (4) filtered and unfiltered elemental (i.e., trace metal) analyses, and (5) analytical results obtained by Inductively Coupled Plasma (ICP) Spectroscopy with corresponding results obtained by Atomic Adsorption Spectroscopy (AAS). Questionable or suspect data were reported to the appropriate analytical laboratory (Mercier 1991a, 1991b, and 1991c). Errors in the data were corrected, and questionable results unresolved by the appropriate laboratory were flagged.

The groundwater and surface water quality data obtained during 1991 are contained in Appendices E through K. The analytical results for each groundwater and surface water sample are contained in Appendix E. Analytical results for the QA/QC samples are summarized in

Appendix F. Ion-charge balances for each groundwater and surface water sample are presented in Appendix G. Results of analyses for nitrate (a primary groundwater contaminant in the BCHR) are summarized in Appendix H. A summary of the validated analytical results for VOCs is provided in Appendix I. Trace metal results that exceeded background levels or Maximum Contaminant Levels (MCLs) are summarized in Appendix J, and radiochemical data are summarized in Appendix K.

5.0 CALCULATED RATE OF CONTAMINANT MIGRATION

Quantitative and qualitative methods were used to calculate contaminant migration rates. The quantitative calculations were based on the assumption that contaminants move with the groundwater unimpeded by various retardation processes. Factors which would reduce transport rates, such as matrix diffusion, degradation, sorption, and chemical precipitation, or factors which may increase transport, such as dispersion, were not explicitly considered. Free product migration, which may occur independent of groundwater flow rates and directions, also was not considered. Qualitative transport rates were determined based on the extent of nitrate in the BCHR assuming a constant input rate from a single source area. Migration rates were determined for the aquifer zones where groundwater contamination is most common: the unconsolidated zone and at shallow depths (generally less than 100 ft below ground surface) in the Maryville Limestone, Nolichucky Shale, and Maynardville Limestone.

Assuming that saturated unconsolidated material and bedrock can each be treated as an equivalent porous medium, average groundwater flow rates can be estimated using the modified Darcy equation:

$$v = Ki/n$$

where v is the average linear velocity of the groundwater, K is the hydraulic conductivity of the medium, i is the hydraulic gradient, and n is the effective porosity. Although the modified Darcy equation can be used to calculate average flow velocities in fractured rock, the velocities in individual fractures may vary over orders of magnitude, depending on the fracture aperture and wall roughness (Freeze and Cherry 1979).

5.1 Unconsolidated Zone

Numerous field studies at the Y-12 Plant provide estimates of hydraulic conductivity in the unconsolidated zone. Conductivity values for the unconsolidated material range from 0.03 to 3.25 ft/day (Connell and Bailey 1989). Effective porosity (the porosity through which

significant advective transport can occur) ranging from 0.001 to 0.15 has been reported (Moore 1989). Horizontal hydraulic gradients determined from the water-table map (Figure 7) average about 0.045 across BCV and about 0.011 parallel to BCV. Using the range of values for hydraulic conductivity, the effective porosity, and the average hydraulic gradients, the calculated rates of solute transport in the unconsolidated zone range from 0.002 to 146.2 ft/day (Table 5).

5.2 Bedrock Zone

Hydraulic conductivities determined from tests performed in wells less than 100 ft deep in the Maryville Limestone range from 0.01 to 2.1 ft/day and average about 0.4 ft/day. For wells screened at similar depths in the Nolichucky Shale, the hydraulic conductivities range from 0.038 to 4.9 ft/day and average about 1.2 ft/day. The hydraulic conductivity test results for wells less than 100 ft deep in the Maynardville Limestone range from 0.13 to 99.0 ft/day and average about 21.9 ft/day.

Results of tracer tests performed in the BCHR and calculations of the fracture porosity in bedrock provide estimates of the effective porosity of the Conasauga Group formations. Tracer tests have yielded effective porosity values ranging from 0.002 to 0.004 (Law Engineering Testing Company 1983; Lozier *et al.* 1987). Moore (1989) calculated a fracture porosity ranging from 0.001 to 0.002, based on estimates of fracture density and average fracture aperture for water producing zones at shallow depths in the Conasauga Group formations.

The horizontal hydraulic gradients at shallow bedrock depths in the BCHR were calculated from the water-table map (Figure 8). Gradients across strike were steepest, ranging from 0.034 to 0.052 and averaging about 0.046. Strike parallel gradients ranged from 0.01 in the Nolichucky Shale to 0.014 in the Maynardville Limestone and averaged about 0.012. The Maryville Limestone lies at the base of Pine Ridge which precludes calculation of a strike-parallel hydraulic gradient in this formation.

Using the average hydraulic conductivity of each formation, effective porosity values of 0.001 and 0.004, and the average strike-normal and strike-parallel hydraulic gradients in each formation, the calculated rates of solute transport range from about 5 to 18 ft/day in the Maryville Limestone, about 4 to 55 ft/day in the Nolichucky Shale, and about 66 to 263 ft/day

in the Maynardville Limestone (Table 5). The transport rates in the Maynardville Limestone can be relatively high as indicated by results of a dye-tracer study performed in the BCHR which yielded a transport rate of approximately 200 ft/day (Geraghty & Miller, Inc. 1989d).

Migration rates in the BCHR can also be estimated based on the extent of the nitrate plume originating from the S-3 Site. Unlike most of the other groundwater contaminants in the BCHR, many of which have multiple source areas, nitrate has only one significant source area (the S-3 Site). Moreover, nitrate salts are highly soluble and generally move with no significant sorption or decay during transport (Geraghty & Miller, Inc. 1989e).

Based on information presented in the 1990 GWQAR for the BCHR, the nitrate plume originating from the S-3 Site extends about 3,650 ft to the west in the unconsolidated zone, approximately 2,000 ft to the west (along strike) at shallow depths in the Nolichucky Shale, and about 9,500 ft west at shallow depths in the Maynardville Limestone (HSW Environmental Consultants, Inc. 1991). Given the 39 years between initial waste disposal at the S-3 Site in 1951 and the horizontal extent of the nitrate plume observed in 1990, the rate of nitrate transport ($v = \text{distance}/\text{time}$) is about 0.3 ft/day in the unconsolidated zone, about 0.1 ft/day in the Nolichucky Shale, and about 0.7 ft/day in the Maynardville Limestone.

The wide range of potential contaminant migration rates reported in this section demonstrates the uncertainty in determining a representative rate of solute transport for this groundwater flow system. Long term transport of solutes in dual porosity and/or highly heterogeneous media is a complex physical and chemical process that is not fully explained by calculations using the modified Darcy equation or qualitative estimates based on distances from source areas to plume boundaries. It is probable that at various times and under various conditions, migration rates throughout the given range occur; some contaminants such as nitrate move relatively rapidly through the flow system, while other more highly attenuated constituents move much more slowly. Moreover, even highly mobile compounds such as nitrate will diffuse into smaller pores from the large conduits and later, under a reverse concentration gradient, will slowly diffuse back out. Thus, although the actual transport rates may vary over several orders of magnitude, the relatively limited extent of the contaminant plumes in the BCHR suggests that slower transport rates may dominate and that processes such as matrix diffusion are an important controlling factor.

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APPENDIX A
FIGURES

FIGURE 1
REGIONAL LOCATION
OF THE Y-12 PLANT

MDRAT-12P\HC

FIGURE 2
HYDROGEOLOGIC REGIMES
AT THE Y-12 PLANT

FIGURE 3
BEAR CREEK VALLEY
WASTE-MANAGEMENT SITES

FIGURE 4
COMPONENTS OF THE OIL LANDFARM
WASTE-MANAGEMENT AREA

CBCBGM-712/HC

FIGURE 5
COMPONENTS OF THE
BEAR CREEK BURIAL GROUNDS
WASTE-MANAGEMENT AREA.

SOURCE: King and Haase, 1987

SYSTEM	GROUP	FORMATION	MAP SYMBOL	THICKNESS (ft)
CAMBRIAN	UPPER	KNOX		
		COPPER RIDGE DOLOMITE	Ock	NOT DETERMINED
	MIDDLE	CONASAUGA		
			Cmn	418-450
			Cn	422-550
			Cm	346-445
			Crg	90-120
			Crf	90-120
			Epv	260-320
LOWER		ROME	Cr	NOT DETERMINED

FIGURE 6
BEDROCK GEOLOGY IN THE
BEAR CREEK HYDROGEOLOGIC REGIME

000'77 3-

E 48,000

E 48,000

E 50,000

Oil Landfarm Waste-Management Area

Rust Spoil
Area

9
Contour

EXPL

GW-101 ■ 996.4 Unconsolidated and Water-Lev
 — 1030 — Water-Level Is (dashed where
 - - - - - Surface Drain

FIG
GROUNDWA
IN THE UNCO
APRIL 29 T

Abandoned
Nitric Acid
Pipeline

0 600'

SCALE

Contour Interval: 10ft

EXPLANATION

- GW-101 996.4 Unconsolidated Zone Monitoring Well and Water-Level Elevation (ft msl)
- 1030 Water-Level Isopleth (ft msl) (dashed where Inferred)
- Surface Drainage Feature

FIGURE 7
GROUNDWATER ELEVATIONS
IN THE UNCONSOLIDATED ZONE,
APRIL 29 TO MAY 3, 1991

EXPLANATION

- GW-245 ●
990.57 Shallow Bedrock Monitoring Well
and Water-Level Elevation (ft msl)
- 990 — Water-Level Isopleth (ft msl)
(dashed where approximate)
- Surface Drainage Feature
- Approximate Location of Geologic Contact

FIGURE 8
GROUNDWATER ELEVATIONS
IN THE SHALLOW BEDROCK,
APRIL 29 TO MAY 3, 1991

BCAIT-112/MC

EXPLANATION

- ▲ BCK-4.55 SURFACE-WATER SAMPLING LOCATION
- SS-5 SPRING SAMPLING LOCATION
- NT-5 NORTH TRIBUTARY
- ST-2 SOUTH TRIBUTARY

FIGURE 9
BEAR CREEK
AND ITS TRIBUTARIES

Topographic Contour Interval: 20 ft

EXPLANATION

GW-101	■	Unconsolidated Zone Monitoring Well
GW-115	●	Shallow Bedrock Monitoring Well
GW-616	▲	Intermediate Bedrock Monitoring Well
GW-125	▼	Deep Bedrock Monitoring Well
	—	Boundary of Site or Waste-Management Area
	1200	Topographic Contour
	- - - -	Surface Drainage Feature
	- · - · -	Approximate Location of Geologic Contact
Ock		Knox Group
Cmn		Maynardville Limestone
Cn		Nolichucky Shale
Cm		Maryville Limestone
Crg		Rogersville Shale
Crl		Rutledge Limestone
Cpv		Pumpkin Valley Shale
Cr		Rome Formation

NOTE: Exit Pathway Monitoring Wells GW-209, GW-210, and GW-211 are located about three miles west of the Bear Creek Burial Grounds Waste-Management Area.

FIGURE 10
MONITORING-WELL NETWORK USED IN
THE 1991 GROUNDWATER QUALITY
ASSESSMENT PROGRAM

APPENDIX B
TABLES

Table 1. Waste-Management Sites Located in the Bear Creek Hydrogeologic Regime

Site Name	Historical Regulatory Classification¹
S-3 Site	T/S/D Unit
Oil Landfarm Waste-Management Area	
Oil Landfarm	T/S/D Unit
Burnyard, Boneyard, and the Chemical Storage Area	SWMU
Sanitary Landfill I	SWDU
Bear Creek Burial Grounds Waste-Management Area	
Burial Grounds A (North and South) and C	T/S/D Units
Burial Grounds B, D, E, and J	SWDUs
Oil Retention Ponds No. 1 and 2	SWMUs
Abandoned Nitric Acid Pipeline	SWMU
SY-200 Yard	SWMU
Rust Spoil Area	SWMU
Spoil Area I	SWMU

Notes:

- 1 T/S/D Unit - RCRA regulated land based treatment, storage, or disposal unit.
 SWMU - RCRA Solid Waste Management Unit.
 SWDU - Solid Waste Disposal Unit (non-hazardous waste).

The regulatory classification of the T/S/D units and SWMUs has been changed to CERCLA operable units.

Table 2. Screened and Open Interval Depths, and Aquifer Zones Monitored by the 1991 Assessment Wells¹

WELL NO.	LOCATION ²	AQUIFER ZONE ³	BEDROCK UNIT ⁴	SCREENED OR OPEN ⁵	MONITORED INTERVAL ⁶
GW-005	OLF	U	-	S	3.0 - 12.5
GW-013	OLF	U	-	S	6.0 - 14.0
GW-018	BG	U	-	S	12.0 - 18.9
GW-037	BG	S	Cm	S	42.0 - 68.7
GW-040 ^a	BG	S	Cpv	S	21.0 - 29.0
GW-042 ^a	BG	U	-	S	13.4 - 28.2
GW-043 ^a	OLF	U	-	S	10.0 - 40.0
GW-044 ^a	OLF	S	Cm	S	42.5 - 70.0
GW-051	BG	U	-	S	2.0 - 11.2
GW-052	BG	U	-	S	4.0 - 19.5
GW-053	BG	U	-	S	11.4 - 32.8
GW-054	BG	S	Cmn	S	31.1 - 37.2
GW-055	BG	S	Cmn	S	15.5 - 20.0
GW-056	BG	S	Cmn	S	49.1 - 55.2
GW-057	BG	S	Cmn	S	17.5 - 22.8
GW-058	BG	S	Cmn	S	38.8 - 45.0
GW-061	BG	S	Cmn	S	17.5 - 24.6
GW-063	OLF	S	Cmn	S	27.7 - 32.7
GW-064	OLF	S	Cmn	S	46.8 - 52.7
GW-069	BG	S	Cn	S	79.0 - 99.2
GW-071	BG	I	Cn	S	195.1 - 219.0
GW-072	BG	S	Cn	S	84.5 - 98.4
GW-074	OLF	I	Cn	S	181.9 - 206.0
GW-075	OLF	I	Cn	S	176.5 - 199.6
GW-076	OLF	S	Cn	S	67.8 - 80.3
GW-077	BG	I	Cn	S	87.4 - 100.3
GW-078	BG	S	Cn	S	11.7 - 21.1
GW-079 ^a	BG	S	Crg	S	49.9 - 64.9
GW-080 ^a	BG	S	Crg	S	20.8 - 29.7
GW-082	BG	S	Cm	S	29.4 - 34.4
GW-083	BG	S	Cn	S	19.9 - 29.5
GW-084 ^a	OLF	U	-	S	18.5 - 27.8
GW-085	OLF	S	Cn	S	48.4 - 58.8
GW-086	OLF	U	-	S	21.0 - 29.6
GW-089	BG	U	-	S	20.0 - 25.0
GW-095	BG	I	Cmn	S	130.2 - 156.0
GW-101	S3	U	-	S	10.1 - 17.5
GW-115 ^a	S3	S	Cm	S	37.6 - 53.0

Table 2. (cont'd)

WELL NO.	LOCATION ²	AQUIFER ZONE ³	BEDROCK UNIT ⁴	SCREENED OR OPEN ⁵	MONITORED INTERVAL ⁶
GW-117	BG	D	Cn	O	480.0 - 530.0
GW-118	BG	D	Cn	O	525.0 - 575.0
GW-119	BG	D	Cn	O	460.0 - 510.0
GW-122	S3	I	Cmn	O	92.0 - 142.0
GW-123	S3	D	Cn	O	522.0 - 572.0
GW-125	S3	D	Cn	O	502.0 - 552.0
GW-162 ^a	BG	I	Cpv	O	92.0 - 125.0
GW-163	BG	I	Rome	O	208.0 - 225.0
GW-164	BG	D	Rome	O	370.0 - 405.0
GW-209	EXP	U	-	S	42.0 - 48.1
GW-210	EXP	I	Rome	O	104.0 - 124.0
GW-211	EXP	D	Rome	O	404.0 - 410.0
GW-225	OLF	I	Cmn	O	150.0 - 200.0
GW-226	OLF	S	Cmn	O	45.0 - 55.0
GW-227	S3	S	Cmn	O	30.0 - 40.0
GW-243	BG	S	Cn	S	43.0 - 77.0
GW-286	BS	S	Cm	S	19.0 - 32.3
GW-287	BG	U	-	S	5.6 - 12.5
GW-290	BG	S	Cm	S	22.3 - 35.5
GW-291	BG	U	-	S	9.5 - 17.0
GW-306	RS	S	Cmn	S	46.2 - 58.5
GW-307	RS	U	-	S	28.7 - 41.6
GW-308	RS	U	-	S	22.0 - 37.7
GW-309	RS	S	Cmn	S	25.0 - 38.0
GW-310	RS	U	-	S	19.5 - 27.1
GW-311	RS	U	-	S	25.6 - 40.3
GW-312	RS	U	-	S	29.6 - 41.0
GW-313	SPI	S	-	S	98.2 - 113.0
GW-314	SPI	S	-	S	101.0 - 115.0
GW-315	SPI	S	Cmn	S	90.0 - 104.0
GW-316	SPI	S	Cmn	S	67.5 - 80.0
GW-317	SPI	S	Cmn	S	117.0 - 132.0
GW-323	SPI	I	Ock	S	94.0 - 108.0
GW-324 ^a	S3	S	Cn	S	66.5 - 80.0
GW-325 ^a	S3	U	-	S	5.1 - 17.9
GW-342 ^a	BG	S	Cpv	S	61.0 - 75.0
GW-343	BG	I	Rome	O	170.0 - 185.0
GW-344	BG	D	Rome	O	301.0 - 316.0
GW-345	S3	U	-	S	15.2 - 26.3
GW-347	S3	U	-	S	9.5 - 27.8

Table 2. (cont'd)

WELL NO.	LOCATION ²	AQUIFER ZONE ³	BEDROCK UNIT ⁴	SCREENED OR OPEN ⁵	MONITORED INTERVAL ⁶
GW-348	S3	S	Cmn	S	68.1 - 80.9
GW-364	OLF	S	Cmn	S	47.0 - 60.3
GW-365	OLF	I	Cmn	O	126.7 - 150.0
GW-366	OLF	I	Cmn	S	88.0 - 101.0
GW-367	OLF	I	Cmn	O	125.0 - 150.0
GW-369	OLF	I	Cmn	O	115.8 - 150.2
GW-370	BG	S	Cm	S	21.1 - 33.1
GW-371	BG	I	Cm	O	110.0 - 125.0
GW-372 ^a	BG	S	Cm	S	39.8 - 51.6
GW-373 ^a	BG	I	Cm	O	123.0 - 158.0
GW-520	OLF	S	Cmn	S	68.0 - 80.3
GW-526	S3	I	Cn	O	101.0 - 123.0
GW-531	OLF	U	-	S	22.0 - 38.5
GW-532	OLF	U	-	S	11.0 - 28.7
GW-533	OLF	U	-	S	18.0 - 30.1
GW-534	OLF	U	-	S	29.4 - 46.3
GW-535	OLF	U	-	S	3.0 - 19.5
GW-537	OLF	U	-	S	4.8 - 23.3
GW-538	OLF	U	-	S	25.5 - 42.2
GW-601	OLF	D	Cmn	O	318.5 - 356.0
GW-602	OLF	I	Cmn	S	197.1 - 211.5
GW-613 ^a	S3	S	Cn	S	30.0 - 42.0
GW-614 ^a	S3	I	Cn	S	71.6 - 90.2
GW-615	S3	I	Cn	O	222.5 - 245.0
GW-616	S3	I	Cn	O	219.7 - 269.0
GW-621	BG	S	Cmn	S	23.3 - 40.5
GW-622	BG	U	-	S	6.8 - 20.5
GW-623	BG	I	Cn	S	238.1 - 274.2
GW-624	BG	U	-	S	14.4 - 27.2
GW-626	BG	S	Cn	S	63.0 - 78.0
GW-627	BG	I	Cn	O	254.0 - 270.0
GW-629	BG	I	Cn	O	262.3 - 312.0
GW-630	OLF	S	Cn	S	14.8 - 28.6
GW-636	OLF	I	Cn	O	98.5 - 117.0
GW-637	OLF	S	Cn	S	14.5 - 27.5
GW-638	OLF	U	-	S	2.5 - 11.5
GW-639	BG	I	Cn	O	95.5 - 125.5
GW-640	BG	S	Cn	S	35.0 - 47.4
GW-641	BG	U	-	S	11.0 - 24.3
GW-642 ^a	BG	S	Crg	S	18.5 - 36.9

Table 2. (cont'd)

WELL NO.	LOCATION ²	AQUIFER ZONE ³	BEDROCK UNIT ⁴	SCREENED OR OPEN ⁵	MONITORED INTERVAL ⁶
GW-643	BG	U	-	S	16.5 - 28.5
GW-644	OLF	U	-	S	10.3 - 23.4
GW-645	OLF	S	Cmn	S	57.6 - 85.8
GW-646	OLF	S	Cmn	S	63.3 - 75.9
GW-647	OLF	S	Cn	S	78.0 - 91.0
GW-648	RS	S	Cmn	S	65.0 - 80.1
GW-649	OLF	U	-	S	8.4 - 20.7
GW-651	BG	S	Cmn	S	39.8 - 52.0
GW-652	BG	S	Cmn	S	13.4 - 31.2
GW-653	BG	S	Cn	S	26.3 - 39.0
GW-654	BG	U	-	S	4.2 - 15.3
GW-655	BG	S	Cpv	S	47.7 - 65.0
GW-683	EXP	I	Ock	S	133.9 - 196.8
GW-684	EXP	I	Cmn	S	106.4 - 128.4
GW-685	EXP	I	Cmn	O	88.5 - 138.3
GW-694	EXP	I	Cmn	O	154.0 - 204.5
GW-695	EXP	S	Ock	S	50.6 - 62.6
GW-703	EXP	I	Cmn	O	135.0 - 182.0
GW-704	EXP	I	Cmn	O	246.0 - 256.0
GW-705	EXP	I	Cmn	O	237.0 - 307.0
GW-706	EXP	I	Cmn	O	157.0 - 182.5
GW-710	EXP	D	Cmn	O	539.7 - 744.5
GW-711	EXP	D	Cmn	O	616.0 - 666.2
GW-712	EXP	D	Cmn	O	441.5 - 457.5

Notes:

- 1 Compiled from: King et al. 1991.
- 2 BG - Bear Creek Burial Grounds WMA
EXP - Exit-Pathway Monitoring Well
OLF - Oil Landfarm WMA
S3 - S-3 Site
SPI - Spoil Area I
RS - Rust Spoil Area

Table 2. (cont'd)

Notes (cont'd):

- 3 U - Unconsolidated Zone
 S - Shallow Bedrock
 I - Intermediate Bedrock
 D - Deep Bedrock

- 4 Ock - Knox Group
 Cmn - Maynardville Limestone
 Cn - Nolichucky Shale
 Cm - Maryville Limestone
 Crg - Rogersville Shale
 Cpv - Pumpkin Valley Shale
 Rome - Rome Formation

- 5 S - Screened
 O - Open

- 6 Depth (in feet) below ground surface.

- a Background monitoring well.

Table 3. Description of Surface-Water Monitoring Stations Included in the Exit-Pathway Monitoring Program

Monitoring Station	Description
NT-13 (Background)	Tributary that enters Bear Creek at BCK 6.76 and represents drainage from a relatively undisturbed catchment that is not known to have been impacted by waste-disposal activities in Bear Creek Valley.
BCK-0.63	Upstream of the confluence with East Fork Poplar Creek. Represents essentially all the surface-water discharge from the Bear Creek watershed.
BCK-4.55	Location of NPDES monitoring site 304. Represents surface-water discharge from at least one area of the Bear Creek floodplain contaminated with uranium and PCBs.
BCK-9.40	Represents surface-water discharge from area of Bear Creek watershed affected by waste-disposal activities.
BCK-11.97	Represents surface-water discharge from area of S-3 Site, Rust Spoil Area, and Spoil Area I. Includes discharge from Tributary NT-1 and Spring SS-1, which probably receives groundwater inputs from S-3 Site contamination plume.

Note: Modified from Martin Marietta Energy Systems, Inc. (1989).

Table 4. Analytical Parameters for the 1991 Groundwater Quality Assessment Program

TRACE METALS¹

ICP ANALYSIS

Aluminum	Cadmium	Molybdenum	Silver
Antimony	Chromium	Nickel	Sodium
Arsenic	Cobalt	Manganese	Strontium
Barium	Copper	Potassium	Thorium
Beryllium	Iron	Selenium	Vanadium
Boron	Magnesium	Silicon	Zinc
Calcium			

AAS ANALYSIS

Cadmium	Chromium	Lead
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OTHER

Mercury (CVAA)	Uranium (Fluor)
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VOLATILE ORGANIC COMPOUNDS

Acetone	1,2-Dichloropropane
Benzene	cis-1,3-Dichloropropene
Bromodichloromethane	trans-1,3-Dichloropropene
Bromoform	Ethylbenzene
Bromomethane	2-Hexanone
2-Butanone	4-Methyl-2-pentanone
Carbon disulfide	Methylene chloride
Carbon tetrachloride	Styrene
Chlorobenzene	1,1,2,2-Tetrachloroethane
Chlorodibromomethane	Tetrachloroethene
Chloroethane	Toluene
Chloroform	1,1,1-Trichloroethane
Chloromethane	1,1,2-Trichloroethane
1,1-Dichloroethane	Trichloroethene
1,2-Dichloroethane	Vinyl acetone
1,1-Dichloroethene	Vinyl chloride
1,2-Dichloroethene	Xylenes

Table 4. (cont'd)

MAJOR IONS

Alkalinity - Carbonate
Alkalinity - Bicarbonate

Chloride
Fluoride

Nitrate (as N)
Sulfate

RADIOLOGICAL PARAMETERS²

Americium 241
Cesium 137
Iodine 129 + 125
Neptunium 237
Plutonium 238 and 239
Strontium

Tritium
Technetium 99
Isotopic Uranium (²³⁴U, ²³⁵U, ²³⁸U)
Gross Alpha Activity
Gross Beta Activity

MISCELLANEOUS PARAMETERS

pH
Specific Conductance
Total Suspended Solids (TSS)
Total Dissolved Solids (TDS)
Turbidity

Phenols³
Total Organic Carbon (TOC)³
Total Organic Halogen (TOX)³
Total Petroleum Hydrocarbons (TPH)³

FIELD MEASUREMENTS

pH
Specific Conductance
Temperature

Dissolved Oxygen
Static Water Level
Oxidation - Reduction Potential (REDOX)

Notes:

- 1 ICP - Inductively Coupled Plasma Spectroscopy
AAS - Atomic Absorption Spectroscopy
CVAA - Cold Vapor Atomic Absorption
- 2 Gross alpha activity and gross beta activity determined for all wells; radionuclide analyses performed for selected wells only.
- 3 Analysis performed only if specified by the Y-12 Plant GWPP Manager.

Table 5. Calculated Transport Rates Using the Modified Darcy Equation

FORMATION	HYDRAULIC CONDUCTIVITY (ft/day)	AVERAGE HYDRAULIC GRADIENT	EFFECTIVE POROSITY	TRANSPORT RATE (ft/day)
Unconsolidated Zone				
Across Valley Flow	0.03	0.045	0.001	1.35
	0.03	0.045	0.15	0.009
	3.25	0.045	0.001	146.3
	3.25	0.045	0.15	0.98
Along Valley Flow	0.03	0.011	0.001	0.33
	0.03	0.011	0.15	0.002
	3.25	0.011	0.001	35.7
	3.25	0.011	0.15	0.24
Bedrock Zone				
Across Strike Flow				
Maryville Limestone	0.4	0.046	0.001	18.4
	0.4	0.046	0.004	4.6
Nolichucky Shale	1.2	0.046	0.001	55.2
	1.2	0.046	0.004	13.8
Along Strike Flow				
Nolichucky Shale	1.2	0.012	0.001	14.4
	1.2	0.012	0.004	3.6
Maynardville Limestone	21.9	0.012	0.001	262.8
	21.9	0.012	0.004	65.7

APPENDIX C

MONITORING-WELL CONSTRUCTION DETAILS

EXPLANATION

LOCATION:

BG - Bear Creek Burial Grounds WMA
EXP - Exit-Pathway Monitoring Well
OLF - Oil Landfarm WMA
S3 - S-3 Site
SPI - Spoil Area I
RS - Rust Spoil Area

CASING MATERIAL:

PVC - Polyvinyl chloride
SS - Stainless Steel
Steel/gal - Galvanized Steel
Black St - Black Steel

MONITORED INTERVAL:

Top - Depth to top of filter pack or open-hole
Bottom - Depth to bottom of filter pack or open-hole
PVC/sl - Slotted
PVC/sw/.01 - Spiral wound, 0.01 inch slot size
SS/sl - Slotted
SS/sw/.01 - Spiral wound, 0.01 inch slot size

NOTES:

Coordinates - Y-12 Plant grid system
Elevations - Feet above mean sea level
Depths - Feet below ground surface
Casing Diameter - Outside diameter, in inches
Borehole Diameter - Nominal diameter, in inches
Length - Feet
. - Not Applicable or not available

APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-005	GW-013	GW-018	GW-037	GW-040	GW-042	GW-043	GW-044	GW-051	GW-052
Location	OLF	OLF	BG	BG	BG	BG	OLF	OLF	BG	BG
North Coordinate	29921	30174	29492	30685	31111	31137	30522	30526	29051	29046
East Coordinate	48242	47343	43620	43346	43358	43938	47932	47928	43744	43483
Surface Elevation	962.37	962.29	921.59	1002.32	1004.11	999.95	1009.78	1010.3	907.15	903.71
Measuring Point Elevation	965.13	964.52	924.49	1005.6	1008.02	1003.39	1011.51	1013.49	910.71	906.04
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	12.5	33.8	20.8	70	35	30	40	70	11.2	19.5
Borehole Diameter	6	6	6	4	6	6	6	4	6	6
Weathered Rock - Depth	9.7	5.3	0	1.5	0	3.5	1	1	11.2	.
Fresh Rock - Depth	.	10.5	.	39	.	.	38	38	.	.
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	.	.	.	.	.	.	.	.	.	.
Surface Casing Diameter	.	.	.	.	.	.	.	.	.	.
Surface Casing Material	.	.	.	unknown	.	.	.	unknown	.	.
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	10.5	10.4	17.7	66.5	27.7	26.9	32.8	58	9.6	18.3
Well Casing Diameter	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
Well Casing Material	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen
Top - Depth	3	6	12	42	21	13.4	10	42.5	2	4
Bottom - Depth	12.5	14	18.9	68.7	29	28.2	40	70	11.2	19.5
Screen Material	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01
Screen Length	5.0	2.0	2.0	2.0	2.0	2.0	10.0	10.0	5.0	5.0
Open-Hole Length	.	.	.	.	.	.	.	.	.	.
Open-Hole Diameter	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-053	GW-054	GW-055	GW-056	GW-057	GW-058	GW-061	GW-063	GW-064	GW-069
Location	BG	BG	BG	BG	BG	BG	BG	OLF	OLF	BG
North Coordinate	29061	28823	28811	28698	28688	28715	28917	29016	29195	29490
East Coordinate	43091	41295	41296	41384	41380	43211	43048	48257	49168	43803
Surface Elevation	900.33	889.81	889.46	886.65	886.83	909.67	900.78	958.89	979.17	924.25
Measuring Point Elevation	902.67	893.33	892.53	890.71	889.36	912.96	904.44	961.93	981.56	927.01
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	39.7	40	20.6	55.2	25	45.2	25	35	57	100
Borehole Diameter	4	4	4	4	4	4	4.75	4	4	7.88
Weathered Rock - Depth	4	.	.	.	.	.	.	.	.	3
Fresh Rock - Depth	.	7.4	6.4	6.4	3.4	20.8	15.7	16.7	34.7	24
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	4	.	.	32	14	.	.	.	.	.
Surface Casing Diameter	6.5	.	.	4.5	4.5	.	.	.	.	.
Surface Casing Material	PVC/#40	unknown	.	PVC/#40	PVC/#40	.	.	unknown	unknown	unknown
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	31.6	37.2	20	55.2	22.8	44.2	24.6	32.7	52.7	99.2
Well Casing Diameter	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
Well Casing Material	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen
Top - Depth	11.4	31.1	15.5	49.1	17.5	38.8	17.5	27.7	46.8	79
Bottom - Depth	32.8	37.2	20	55.2	22.8	45	24.6	32.7	52.7	99.2
Screen Material	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01
Screen Length	5.0	2.0	2.0	2.0	2.0	2.0	5.0	5.0	2.0	10.2
Open-Hole Length	.	.	.	.	.	.	.	.	.	.
Open-Hole Diameter	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-071	GW-072	GW-074	GW-075	GW-076	GW-077	GW-078	GW-079	GW-080	GW-082
Location	BG	BG	OLF	OLF	OLF	BG	BG	BG	BG	BG
North Coordinate	29496	29503	29870	29795	29909	29731	29732	30632	30624	30434
East Coordinate	44191	44159	47228	47988	48238	41234	41210	41619	41622	42090
Surface Elevation	925.47	926.42	956.33	962.1	962.58	914.42	914.38	977.14	977.03	959.49
Measuring Point Elevation	928.42	929.91	959.65	964.31	966.01	918.39	917.33	980.5	980.31	962.49
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	220.6	101.4	207.42	200	81	100.5	21.1	65	30	35
Borehole Diameter	8.75	8.75	7.88	8.75	8.75	3.88	6.5	6.5	6.5	4
Weathered Rock - Depth	5.5	5	6.42	6	12	7	6.5	4	3.5	7
Fresh Rock - Depth	16	34	51.42	14	48	13	8.5	26.5	23.5	23
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	16	13.2	24.42	16	19	35	.	.	.	25
Surface Casing Diameter	10.63	10.63	10.63	10.63	10.63	4.5	.	.	.	6.5
Surface Casing Material	PVC/#40	PVC/#40	PVC/#40	PVC/#40	PVC/#40	PVC/#40	.	.	.	PVC/#40
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	219	98.4	206.02	199.6	80.3	100.3	21.1	64.9	29.7	34.4
Well Casing Diameter	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
Well Casing Material	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen
Top - Depth	195.1	84.5	181.92	176.5	67.8	87.4	11.7	49.9	20.8	29.4
Bottom - Depth	219	98.4	206.02	199.6	80.3	100.3	21.1	64.9	29.7	34.4
Screen Material	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01
Screen Length	20.6	10.6	20.6	20.0	10.6	10.0	5.0	5.0	5.0	5.0
Open-Hole Length	.	.	.	.	.	.	.	.	.	.
Open-Hole Diameter	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-083	GW-084	GW-085	GW-086	GW-089	GW-095	GW-101	GW-115	GW-117	GW-118
Location	BG	OLF	OLF	OLF	BG	BG	S3	S3	BG	BG
North Coordinate	29946	30421	30002	29993	30924	29142	30241	31073	29183	29147
East Coordinate	42436	48801	49058	49043	43406	43363	51845	52685	42918	43404
Surface Elevation	934.19	994.37	979.82	979.5	962.48	907.98	1006	1051.92	911.19	909.37
Measuring Point Elevation	937.83	996.6	982.87	982.76	964.36	910.87	1007.33	1054.41	914.21	912.39
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	30	34	62	33.5	25	156	17.5	53	480	525
Borehole Diameter	4.75	6.5	4	4	6.5	9	6.5	.	9.87	9.87
Weathered Rock - Depth	4	4	2	8	.	15	14	.	.	.
Fresh Rock - Depth	13.7	.	40	.	.	24	17.5	.	18	15
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	.	.	.	.	.	15	2.7	.	19.5	31
Surface Casing Diameter	.	.	.	.	.	10.63	7	.	10.75	10.75
Surface Casing Material	.	.	unknown	.	.	PVC/#40	Steel/gal	.	Steel/F25	Steel/F25
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	29.5	27.8	58.8	29.6	25	155.8	17.2	53	480	525
Well Casing Diameter	2.37	2.37	2.37	2.37	2.37	4.5	2.37	2.37	4.5	4.5
Well Casing Material	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	Steel/F25	Steel/F25
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Open	Open
Top - Depth	19.9	18.5	48.4	21	20	130.2	10.1	37.6	480	525
Bottom - Depth	29.5	27.8	58.8	29.6	25	156	17.5	53	530	575
Screen Material	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	.	.
Screen Length	5.0	5.0	5.0	5.0	2.0	21.0	4.0	10.0	.	.
Open-Hole Length	.	.	.	.	.	.	.	.	50	50
Open-Hole Diameter	.	.	.	.	.	.	.	.	4	4

(CONTINUED)

APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-119	GW-122	GW-123	GW-125	GW-162	GW-163	GW-164	GW-209	GW-210	GW-211
Location	BG	S3	S3	S3	BG	BG	BG	EXP	EXP	EXP
North Coordinate	29254	29741	29742	29646	31331	31328	31334	31775	31765	31800
East Coordinate	44098	51807	51794	52208	44483	44470	44481	27699	27700	27699
Surface Elevation	918.12	1004.15	1004.43	1003.98	1036.4	1036.4	1036.99	792.96	792.87	793.14
Measuring Point Elevation	921.91	1007.2	1007.45	1006.85	1037.59	1038.54	1039.59	799.43	799.1	796.26
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	460	92	522	502	92	208	370	48.1	104	404
Borehole Diameter	9.87	9.79	9.87	9.87	10	10	10	8	6.62	6.62
Weathered Rock - Depth	.	.	.	.	.	.	.	.	70	.
Fresh Rock - Depth	20	37	38	25	12	12	10	.	75	37
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	30	39	39	27	26	34	38	.	17	40
Surface Casing Diameter	10.75	10.75	10.75	10.75	10.75	10.75	10.75	.	8.63	8.63
Surface Casing Material	Steel/F25	Steel/F25	Steel/F25	Steel/F25	Steel/F25	Steel/F25	Steel/F25	.	PVC/#40	PVC/#40
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	460	92	522	502	92	208	370	48.1	104	404
Well Casing Diameter	4.5	4.5	4.5	4.5	6.62	6.62	6.62	2.37	4.38	4.38
Well Casing Material	Steel/F25	Steel/F25	Steel/F25	Steel/F25	Steel/F25	Steel/F25	Steel/F25	PVC/#40	Steel	Steel
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Open	Open	Open	Open	Open	Open	Open	Screen	Open	Open
Top - Depth	460	92	522	502	92	208	370	42	104	404
Bottom - Depth	510	142	572	552	125	225	405	48.1	124	410
Screen Material	.	.	.	.	.	.	.	PVC/sw/.01	.	.
Screen Length	.	.	.	.	.	.	.	5.1	.	.
Open-Hole Length	50	50	50	50	33	17	35	.	20	6
Open-Hole Diameter	4	4	4	4	6	6	6	.	3.88	3.88

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APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-225	GW-226	GW-227	GW-243	GW-286	GW-287	GW-290	GW-291	GW-306	GW-307
Location	OLF	OLF	OLF	S3	BG	BG	BG	BG	RS	RS
North Coordinate	29155	29156	29172	30155	29993	29989	30445	30449	29346	29250
East Coordinate	47461	47473	47802	51990	42287	42288	42580	42583	49655	49521
Surface Elevation	940.21	940.56	943.91	1008.58	924.52	924.6	945.39	945.12	989.44	991.01
Measuring Point Elevation	943.11	943.4	946.46	1011.55	926.83	926.87	948.46	948.36	991.78	993.14
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	150	45	30	77	32.3	12.5	35.53	16.98	58.5	41.6
Borehole Diameter	10	10	10	11	9	9	9	9	8	10
Weathered Rock - Depth	.	.	.	.	5	4.5	.	10.78	.	41.6
Fresh Rock - Depth	30	28	19	.	10	11	20.03	.	44	.
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	32	30	20	37.8	14.2	.	20.53	.	.	.
Surface Casing Diameter	10.75	10.75	10.75	12.5	10.75	.	10.75	.	.	.
Surface Casing Material	Steel	Steel	Steel	PVC/#40	.	.	.	.	.	.
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	150	45	30	72.9	32	12.3	35.13	16.48	58.1	41.6
Well Casing Diameter	4.5	4.5	4.5	6.5	4.5	4.5	4.5	4.5	4.5	4.5
Well Casing Material	Steel	Steel	Steel	PVC/#40	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Open	Open	Open	Screen	Screen	Screen	Screen	Screen	Screen	Screen
Top - Depth	150	45	30	43.2	19.5	5.6	22.33	9.48	46.2	28.7
Bottom - Depth	200	55	40	77	32.3	12.5	35.53	16.98	58.5	41.6
Screen Material	.	.	.	PVC/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01
Screen Length	.	.	.	27.9	10.0	5.0	10.0	5.0	10.0	10.7
Open-Hole Length	50	10	10	.	.	.	.	.	.	.
Open-Hole Diameter	4	4	4	.	.	.	.	.	.	.

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APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-308	GW-309	GW-310	GW-311	GW-312	GW-313	GW-314	GW-315	GW-316	GW-317
Location	RS	RS	RS	RS	RS	SPI	SPI	SPI	SPI	SPI
North Coordinate	29399	29530	29437	29267	29216	29351	29419	29455	29336	29285
East Coordinate	49795	50176	50497	50126	49778	52016	52125	52268	52412	52192
Surface Elevation	991.12	985.77	992.4	996.43	994.13	1050.37	1047.2	1044.84	1044.73	1060.8
Measuring Point Elevation	993.8	988.17	995.35	999.35	996.49	1052.52	1049.81	1047.28	1047.17	1062.98
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	37.7	38	27.1	40.3	41	113	115	104	80	132
Borehole Diameter	10	8	10	10	12	10	10	10	10	10
Weathered Rock - Depth	37.7	20	27.1	40.3	.	30	47	54	55	.
Fresh Rock - Depth	.	.	.	.	.	34.5	49	71	.	48
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	.	.	.	.	.	42.5	66	84.4	54.7	49.3
Surface Casing Diameter	.	.	.	.	.	10.75	10.75	10.75	10.75	10.75
Surface Casing Material	.	.	.	.	.	Steel/F25	Steel/F25	Steel/F25	Steel/F25	Steel/F25
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	37.7	37	27.1	40.3	40.5	112.1	113	103.3	79.4	130.5
Well Casing Diameter	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Well Casing Material	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen
Top - Depth	22	25	19.5	25.6	29.6	98.2	101	90	67.5	117
Bottom - Depth	37.7	38	27.1	40.3	41	113	115	104	80	132
Screen Material	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01
Screen Length	10.6	10.0	5.3	10.6	10.0	10.7	10.0	10.0	10.7	11.0
Open-Hole Length	.	.	.	.	.	.	.	.	.	.
Open-Hole Diameter	.	.	.	.	.	.	.	.	.	.

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APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-323	GW-324	GW-325	GW-342	GW-343	GW-344	GW-345	GW-347	GW-348	GW-364
Location	SPI	S3	S3	BG	BG	BG	S3	S3	S3	OLF
North Coordinate	28985	30307	30306	31327	31320	31313	30029	29292	29294	29152
East Coordinate	52106	50700	50689	42609	42597	42584	50700	50750	50763	46508
Surface Elevation	1127.41	1001.44	1000.53	1094.76	1094	1093.19	994.93	997.76	998	933.39
Measuring Point Elevation	1130.11	1003.83	1003	1097.31	1095.32	1095.08	999.46	1001.56	1000.12	935.95
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	108	80	17.9	75	170	301	26.3	27.8	80.9	60.3
Borehole Diameter	10	10	10	9.5	10.63	10.62	14.5	9.5	9.5	10.6
Weathered Rock - Depth	75	0	0	20	23	23	9	26.5	35.8	22
Fresh Rock - Depth	.	19	.	27	28	28	26.3	.	36.6	30
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	93	25	.	36	40	40	.	.	46.4	30
Surface Casing Diameter	10.75	10.75	.	10.75	12.88	12.87	.	.	10.75	11
Surface Casing Material	Steel/F25	Steel/F25	.	Steel/F25	Steel/F25	Steel/F25	.	.	unknown	unknown
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	107	79	17.3	75	170	301	26.3	27.8	80.9	60.3
Well Casing Diameter	4.5	4.5	4.5	4.5	6.62	6.62	4.5	4.5	4.5	4.5
Well Casing Material	SS/#304	SS/#304	SS/#304	SS/#304	Steel/F25	Steel/F25	SS/#304	SS/#304	SS/#304	SS/#304
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Screen	Screen	Screen	Open	Open	Screen	Screen	Screen	Screen
Top - Depth	94	66.5	5.1	61	170	301	15.2	9.5	68.1	47
Bottom - Depth	108	80	17.9	75	185	316	26.3	27.8	80.9	60.3
Screen Material	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	.	.	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01
Screen Length	10.5	10.5	10.0	10.0	.	.	10.0	15.8	10.4	10.0
Open-Hole Length	.	.	.	.	15	15	.	.	.	.
Open-Hole Diameter	.	.	.	.	6	6	.	.	.	.

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APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-365	GW-366	GW-367	GW-369	GW-370	GW-371	GW-372	GW-373	GW-520	GW-526
Location	OLF	OLF	OLF	OLF	BG	BG	BG	BG	OLF	83
North Coordinate	29150	28886	28884	28921	30241	30245	30673	30679	28885	30033
East Coordinate	46490	46708	46695	47628	44989	45036	45257	45271	46725	50708
Surface Elevation	933.03	985.66	986.21	997.86	957.94	958.13	979.87	980.75	985.18	995.34
Measuring Point Elevation	935.58	988.79	988.16	999.72	960.62	960.22	983.53	982.8	987.38	997.45
	.	.	.	.	.	.	.	.	.	.
BOREHOLE	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.
Borehole Depth	126.7	102.5	125	115.8	33.1	110	51.6	123	80.3	101
Borehole Diameter	10.75	9.5	10.75	10.6	9.5	9.5	9.5	9.5	9.5	9.5
Weathered Rock - Depth	11	46	39	10.8	11	7.5	14.5	21	40	3.5
Fresh Rock - Depth	15	70	72	68	25	25	47	75	63	23.6
	.	.	.	.	.	.	.	.	.	.
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	18.5	67	58.4	31	.	36	.	34.5	66.1	23.6
Surface Casing Diameter	11.75	11.75	11.75	11.75	.	10.75	.	10.75	10.75	10.75
Surface Casing Material	unknown	unknown	unknown	unknown	.	unknown	.	unknown	unknown	unknown
	.	.	.	.	.	.	.	.	.	.
WELL CASING	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	126.7	101	125	115.8	33.1	110	51.6	123	80.3	101
Well Casing Diameter	6.62	4.5	6.62	6.62	4.5	6.37	4.5	6.62	4.5	6.62
Well Casing Material	Steel/F25	SS/#304	Steel/F25	Steel/F25	SS/#304	Steel/F25	SS/#304	Steel/F25	SS/#304	Steel/F25
	.	.	.	.	.	.	.	.	.	.
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.
Screened or Open	Open	Screen	Open	Open	Screen	Open	Screen	Open	Screen	Open
Top - Depth	126.7	88	125	115.8	21.1	110	39.8	123	68	101
Bottom - Depth	150	101	150	150.2	33.1	125	51.6	158	80.3	123
Screen Material	.	SS/sw/.01	.	.	SS/sw/.01	.	SS/sw/.01	.	SS/sw/.01	.
Screen Length	.	10.0	.	.	10.0	.	10.0	.	10.3	.
Open-Hole Length	23.3	.	25	34.4	.	15	.	35	.	22
Open-Hole Diameter	6	.	6	6.1	.	6	.	6	.	6.1

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APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-531	GW-532	GW-533	GW-534	GW-535	GW-537	GW-538	GW-601	GW-602	GW-613
Location	OLF	OLF	OLF	OLF	OLF	OLF	OLF	OLF	OLF	S3
North Coordinate	30453	30388	30417	30393	30334	30057	30329	28903	28640	30407
East Coordinate	49331	49300	49486	49492	49469	49539	49379	47629	47430	50232
Surface Elevation	1002.19	994.15	1001.41	997.43	987.29	974.19	993.97	999.09	1075.06	1010.17
Measuring Point Elevation	1004.61	996.9	1003.82	1000.85	990.94	976.24	996.89	1002.2	1077.77	1013.37
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	39.5	29.7	30.1	46.3	19.5	24.5	42.2	319	195	42
Borehole Diameter	8.75	8.75	9.5	9.25	8.75	8.75	9.25	10.625	10.625	9.5
Weathered Rock - Depth	25	22.4	23	16	10.6	14.9	18.5	8	55	15
Fresh Rock - Depth	.	.	.	27.5	.	.	37	54	.	.
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	.	.	.	.	.	.	.	41.4	73.5	16.8
Surface Casing Diameter	.	.	.	.	.	.	.	11.75	11.75	10.75
Surface Casing Material	.	.	.	.	.	.	.	Steel	Steel	Steel
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	38.5	28.7	30.1	46.3	19.5	23.3	42.2	318.5	194.3	42
Well Casing Diameter	4.5	4.5	4.5	4.5	4.5	4.5	4.5	7	7	4.5
Well Casing Material	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	Steel	Steel	SS/#304
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Open	Screen	Screen
Top - Depth	22	11	18	29.35	3	4.8	25.5	318.5	197.1	30
Bottom - Depth	38.5	28.7	30.1	46.3	19.5	23.3	42.2	356	211.5	42
Screen Material	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sl/.01	SS/sw/.01	SS/sw/.01	SS/sl/.01	.	SS/sw/.01	SS/sw/.01
Screen Length	15.7	15.7	10.4	15.0	15.8	15.0	15.0	.	11.8	10.3
Open-Hole Length	.	.	.	.	.	.	.	37.5	.	.
Open-Hole Diameter	.	.	.	.	.	.	.	6.25	.	.

(CONTINUED)

APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-614	GW-615	GW-616	GW-621	GW-622	GW-623	GW-624	GW-626	GW-627	GW-629
Location	S3	S3	S3	BG	BG	BG	BG	BG	BG	BG
North Coordinate	30426	30009	29724	29023	29368	29388	29421	29535	29505	29522
East Coordinate	50223	52224	51907	45033	44116	44138	43007	42772	42774	43047
Surface Elevation	1009.39	1014.17	1009.81	923.07	921.54	922.01	919.52	939.95	940.39	924.42
Measuring Point Elevation	1012.22	1016.75	1011.81	925.24	924.16	925.21	921.96	942.61	942.85	927.16
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	90.2	222.5	219.7	43	20.5	274.5	27.2	78	254	262.3
Borehole Diameter	9.5	10.625	10.625	7.875	10.625	6	9.5	9.5	10.625	10.625
Weathered Rock - Depth	12.5	15	35	22	14.2	16	12	2	3	12
Fresh Rock - Depth	50.8	40	42	.	.	38	.	64	43	42
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	44.4	84.5	45.6	24	.	26.02	.	62.5	47.5	45.1
Surface Casing Diameter	10.75	11.75	11.75	10.75	.	10.76	.	11.75	11.75	11.75
Surface Casing Material	Steel	Steel	Steel	Steel	.	Steel	.	Steel	Steel	Steel
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	90.2	222.5	219.1	40.5	18.9	274.5	27.2	78	254	262.3
Well Casing Diameter	4.5	7	7	4.5	4.5	2.37	4.5	4.5	7	7
Well Casing Material	SS/#304	Steel	Steel	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	Steel	Steel
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Open	Open	Screen	Screen	Screen	Screen	Screen	Open	Open
Top - Depth	71.6	222.5	219.7	23.3	6.8	238.1	14.4	63	254	262.3
Bottom - Depth	90.2	245	269	40.5	20.5	274.2	27.2	78	270	312
Screen Material	SS/sw/.01	.	.	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	.	.
Screen Length	15.0	.	.	15.7	10.1	30.2	10.3	10.0	.	.
Open-Hole Length	.	22.5	49.3	.	.	.	.	.	16	49.7
Open-Hole Diameter	.	6.25	6.25	.	.	.	.	.	6.25	6.5

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APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-630	GW-636	GW-637	GW-638	GW-639	GW-640	GW-641	GW-642	GW-643	GW-644
Location	OLF	OLF	OLF	OLF	BG	BG	BG	BG	BG	OLF
North Coordinate	30316	29482	29493	29485	29626	29670	29686	31215	30656	29945
East Coordinate	49450	46413	46402	46389	45260	45253	45251	44654	45253	46609
Surface Elevation	984.53	938.08	938.26	938.14	937.98	942.59	944.01	1011.93	979.9	956.78
Measuring Point Elevation	986.65	941.92	941.83	941.77	940.7	945.38	946.66	1014.67	982.42	959.75
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	28.6	99	27.5	12	95.5	47.4	24.3	36.9	29.3	23.4
Borehole Diameter	9.5	10.75	10	10	10	9.5	9.5	9.5	14	9.5
Weathered Rock - Depth	10	8	10	8	3	3	11	1	0.5	3.2
Fresh Rock - Depth	.	16	.	.	20	25	.	20	.	16.5
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	.	23	15	.	31	35.5	.	21.5	.	.
Surface Casing Diameter	.	11.75	10.75	.	11	10.75	.	10.75	.	.
Surface Casing Material	.	Steel	Steel	.	Steel	Steel	.	Steel	.	.
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	28.6	98.5	27.5	11.5	95.5	47.4	24.3	36.9	28.5	23.4
Well Casing Diameter	4.5	7	4.5	4.5	7	4.5	4.5	4.5	4.5	4.5
Well Casing Material	SS/#304	Steel	SS/#304	SS/#304	Steel	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Open	Screen	Screen	Open	Screen	Screen	Screen	Screen	Screen
Top - Depth	14.8	98.5	14.5	2.5	95.5	35	11	18.5	16.5	10.3
Bottom - Depth	28.6	117	27.5	11.5	125.5	47.4	24.3	36.9	28.5	23.4
Screen Material	SS/sw/.01	.	SS/sw/.01	SS/sw/.01	.	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01
Screen Length	10.7	.	10.0	5.0	.	11.1	10.4	16.2	10.6	10.3
Open-Hole Length	.	18.5	.	.	30	.	.	.	.	.
Open-Hole Diameter	.	6.25	.	.	6.25	.	.	.	.	.

(CONTINUED)

APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-645	GW-646	GW-647	GW-648	GW-649	GW-651	GW-652	GW-653	GW-654	GW-655
Location	OLF	OLF	OLF	RS	OLF	BG	BG	BG	BG	BG
North Coordinate	28837	28873	28941	29088	30365	29043	29029	29660	30549	31403
East Coordinate	46649	47580	48770	49888	50143	42535	42452	42317	41907	42907
Surface Elevation	1003.5	1002.01	1030.14	1026.48	981.01	900.05	897.98	928.85	938.26	1108.2
Measuring Point Elevation	1006.4	1004.46	1033.27	1029.17	983.66	903.12	900.83	931.6	940.79	1111.42
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	85.8	75.9	91	80.1	20.8	52	31.2	39	15.5	65
Borehole Diameter	10	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Weathered Rock - Depth	17.5	.	10	49.5	7	7.5	9.5	3.5	4	9
Fresh Rock - Depth	63.5	29.8	50	.	.	.	.	.	.	47
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	62.5	58.8	15.5	64.5	.	39	12.6	.	.	.
Surface Casing Diameter	10.75	11.5	10.75	10.75	.	10.75	10.75	.	.	.
Surface Casing Material	Steel	Steel	Steel	Steel	.	Steel	Steel	.	.	.
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	80.2	75.9	91	80.1	20.7	52	31.2	39	15.3	65
Well Casing Diameter	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Well Casing Material	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304	SS/#304
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen
Top - Depth	57.6	63.3	78	65	8.4	39.8	13.4	26.3	4.2	47.7
Bottom - Depth	85.8	75.9	91	80.1	20.7	52	31.2	39	15.3	65
Screen Material	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01	SS/sw/.01
Screen Length	21.3	11.1	10.0	10.0	10.4	10.0	16.2	10.0	10.0	15.9
Open-Hole Length	.	.	.	.	.	.	.	.	.	.
Open-Hole Diameter	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-683	GW-684	GW-685	GW-694	GW-695	GW-703	GW-704	GW-705	GW-706	GW-710
Location	EXP	EXP	EXP	EXP	EXP	EXP	EXP	EXP	EXP	EXP
North Coordinate	28282	28525	28667	28845	28845	28806	28845	28945	28946	27645
East Coordinate	41552	41354	41448	44893	44868	44931	44935	44916	44944	36471
Surface Elevation	969.45	895.53	889.28	938.58	937.22	951.8	941.99	924.96	925.78	908.03
Measuring Point Elevation	972.06	898.66	891.51	941.38	939.37	954.69	944.73	928.47	928.67	911.26
BOREHOLE	.	.	.	.	.	.	.	.	.	.
Borehole Depth	197.5	129.6	88.5	154	62.6	135	246	237	157	539.7
Borehole Diameter	10.625	10.5	10.625	10.6	9.875	10.625	10.625	10.6	10.6	10.6
Weathered Rock - Depth	22	0	5	11	6	7	16	23.5	17	.
Fresh Rock - Depth	26	9	15.5	21	18	10	23	38	27	3.5
SURFACE CASING	.	.	.	.	.	.	.	.	.	.
Surface Casing Depth	82	87	.	25.8	22.5	.	21	36.5	40.3	83.4
Surface Casing Diameter	11.75	11.75	.	11.75	11.75	.	11.75	11.75	11.75	11.75
Surface Casing Material	Steel	Steel	.	Steel	Steel	.	Steel	Steel	Steel	.
WELL CASING	.	.	.	.	.	.	.	.	.	.
Well Casing Depth	197.1	128.8	88.3	153	62.6	133.8	244.5	237	156.1	538.4
Well Casing Diameter	4.5	4.5	7	7	4.5	7	7	7	7	10.6
Well Casing Material	SS/#304	SS/#304	Steel/F25	Steel/F25	SS/#304	Steel/F25	Steel/F25	Steel/F25	Steel/F25	Steel
MONITORED INTERVAL	.	.	.	.	.	.	.	.	.	.
Screened or Open	Screen	Screen	Open	Open	Screen	Open	Open	Open	Open	Open
Top - Depth	133.9	106.4	88.5	154	50.6	135	246	237	157	539.7
Bottom - Depth	196.8	128.4	138.3	204.5	62.6	182	256	307	182.5	744.5
Screen Material	SS/pp/.01	SS/pp/.01	.	.	SS/mw/.01	.	.	.	.	.
Screen Length	50.8	14.6	.	.	10.0	.	.	.	.	.
Open-Hole Length	.	.	49.8	50.5	.	47	10	70	25.5	204.8
Open-Hole Diameter	.	.	6.63	6.25	.	6.25	6.5	6.25	6.25	6.25

(CONTINUED)

APPENDIX C
Monitoring-Well Construction Details

Well No.	GW-711	GW-712
Location	EXP	EXP
North Coordinate	27873	28233
East Coordinate	36535	36507
Surface Elevation	901.96	873.61
Measuring Point Elevation	905.02	877.09
BOREHOLE	.	.
Borehole Depth	616	441.5
Borehole Diameter	10.6	10.6
Weathered Rock - Depth	15	12
Fresh Rock - Depth	20.5	66
SURFACE CASING	.	.
Surface Casing Depth	17	44.8
Surface Casing Diameter	11	11
Surface Casing Material	.	.
WELL CASING	.	.
Well Casing Depth	614.7	440.2
Well Casing Diameter	7	7
Well Casing Material	Steel	Steel
MONITORED INTERVAL	.	.
Screened or Open	Open	Open
Top - Depth	616	441.5
Bottom - Depth	666.2	457.5
Screen Material	.	.
Screen Length	.	.
Open-Hole Length	50.2	16
Open-Hole Diameter	6.25	6.25

APPENDIX D
MONITORING-WELL SAMPLING SEQUENCE

EXPLANATION

LOCATION:

BG - Bear Creek Burial Grounds WMA
EXP - Exit-Pathway Monitoring Well
OLF - Oil Landfarm WMA
S3 - S-3 Site
SPI - Spoil Area I
RS - Rust Spoil Area

PARAMETERS (See Table 4 for a list of individual analytes):

STD - Standard Suite of Analytical Parameters

- Trace Metals
- Volatile Organic Compounds
- Major Ions
- Gross Alpha and Gross Beta Activity
- Miscellaneous Parameters
- Field Measurements

Am - Americium 241
Cs - Cesium 137
H3 - Tritium
Pu - Plutonium 238 and 239
Np - Neptunium 237
I - Iodine 125 + 129
Sr - Strontium
Tc - Technetium 99
U - Isotopic Uranium (^{234}U , ^{235}U , and ^{238}U)
TPH - Total Petroleum Hydrocarbons

APPENDIX D
Monitoring-Well Sampling Sequence

WELL NO.	LOCATION	DATE	TIME	PARAMETERS
First Quarter 1991				
GW-115	S3	01/05/91	9:55	STD,Tc,U
GW-325	S3	01/05/91	10:05	STD,U
GW-324	S3	01/05/91	10:49	STD,U
GW-613	S3	01/05/91	11:30	STD,U
GW-614	S3	01/05/91	13:06	STD,U
GW-323	SPI	01/06/91	10:06	STD
GW-317	SPI	01/06/91	12:25	STD,U
GW-649	OLF	01/06/91	14:30	STD,Tc,U
GW-316	SPI	01/08/91	9:58	STD
GW-315	SPI	01/08/91	12:14	STD
GW-314	SPI	01/08/91	15:16	STD
GW-313	SPI	01/09/91	10:53	STD
GW-615	S3	01/11/91	14:58	STD
GW-616	S3	01/12/91	9:21	STD
GW-101	S3	01/12/91	10:30	STD
GW-122	S3	01/12/91	16:05	STD
GW-309	RS	01/13/91	11:19	STD,Tc,Sr,Cs,H3,I
GW-311	RS	01/13/91	14:02	STD,H3,I
GW-312	RS	01/14/91	11:02	STD,H3,I
GW-307	RS	01/14/91	14:11	STD,H3,I
GW-306	RS	01/14/91	15:30	STD,Tc,Sr,Cs,H3,I
GW-308	RS	01/14/91	16:22	STD,H3,I
GW-310	RS	01/15/91	9:36	STD,H3,I
GW-648	RS	01/15/91	11:40	STD,Tc,H3,I
GW-526	S3	01/16/91	12:53	STD
GW-345	S3	01/16/91	14:10	STD
GW-084	OLF	01/22/91	11:41	STD,U
GW-043	OLF	01/22/91	13:32	STD,U
GW-243	S3	01/22/91	14:09	STD,U,Tc,Sr,H3,I,Pu,Am,Np
GW-044	OLF	01/22/91	14:34	STD,U
GW-601	OLF	01/25/91	12:37	STD
GW-602	OLF	01/25/91	13:55	STD
GW-086	OLF	01/26/91	10:10	STD
GW-085	OLF	01/26/91	11:16	STD
GW-076	OLF	01/26/91	14:08	STD
GW-005	OLF	01/26/91	14:34	STD
GW-013	OLF	01/28/91	12:00	STD
GW-075	OLF	01/28/91	15:03	STD
GW-074	OLF	01/30/91	11:25	STD
GW-644	OLF	01/31/91	10:15	STD
GW-646	OLF	01/31/91	12:14	STD,Tc
GW-647	OLF	02/01/91	11:00	STD,Tc
GW-366	OLF	02/01/91	14:40	STD,Tc
GW-367	OLF	02/02/91	15:10	STD,Tc
GW-364	OLF	02/07/91	14:38	STD,Tc

APPENDIX D
Monitoring-Well Sampling Sequence

WELL NO.	LOCATION	DATE	TIME	PARAMETERS
GW-063	OLF	02/08/91	10:30	STD
GW-227	OLF	02/08/91	11:47	STD
GW-226	OLF	02/08/91	14:13	STD
GW-365	OLF	02/09/91	14:26	STD, Tc
GW-369	OLF	02/10/91	11:35	STD
GW-636	OLF	02/11/91	14:40	STD, Tc
GW-637	OLF	02/12/91	11:08	STD, Tc
GW-638	OLF	02/12/91	12:40	STD, Tc
GW-645	OLF	02/12/91	14:30	STD, Tc
GW-064	OLF	02/20/91	14:08	STD
GW-225	OLF	02/21/91	13:44	STD
GW-372	BG	02/22/91	10:45	STD, U
GW-373	BG	02/22/91	16:07	STD, U
GW-209	EXP	02/23/91	8:50	STD
GW-079	BG	02/23/91	9:15	STD, U
GW-080	BG	02/23/91	10:45	STD, U
GW-210	EXP	02/23/91	10:45	STD
GW-211	EXP	02/26/91	11:55	STD
GW-056	BG	02/26/91	13:35	STD
GW-057	BG	02/26/91	14:11	STD
GW-077	BG	02/27/91	11:12	STD
GW-078	BG	02/27/91	11:38	STD
GW-643	BG	02/27/91	13:15	STD, U
GW-054	BG	02/27/91	15:06	STD
GW-370	BG	02/28/91	10:30	STD
GW-162	BG	02/28/91	15:05	STD, U
GW-163	BG	03/02/91	9:02	STD, U
GW-089	BG	03/05/91	10:50	STD
GW-164	BG	03/05/91	13:48	STD, U
GW-042	BG	03/05/91	14:00	STD, U
GW-342	BG	03/06/91	11:09	STD, U
GW-343	BG	03/07/91	13:12	STD, U
GW-082	BG	03/09/91	10:00	STD
GW-083	BG	03/09/91	11:00	STD
GW-037	BG	03/09/91	13:19	STD
GW-642	BG	03/09/91	15:11	STD, U
GW-344	BG	03/09/91	15:50	STD, U
GW-654	BG	03/09/91	16:29	STD, U
GW-655	BG	03/09/91	17:49	STD, U
GW-053	BG	03/19/91	9:42	STD
GW-069	BG	03/19/91	10:55	STD
GW-061	BG	03/19/91	11:50	STD, U
GW-058	BG	03/19/91	12:40	STD, U
GW-072	BG	03/19/91	12:55	STD
GW-095	BG	03/19/91	14:35	STD
GW-052	BG	03/20/91	9:35	STD
GW-622	BG	03/20/91	12:27	STD

APPENDIX D
Monitoring-Well Sampling Sequence

WELL NO.	LOCATION	DATE	TIME	PARAMETERS
GW-621	BG	03/20/91	14:15	STD
GW-018	BG	03/21/91	11:40	STD
GW-290	BG	03/21/91	13:35	STD
GW-626	BG	03/23/91	9:19	STD, Phenols
GW-651	BG	03/23/91	11:00	STD, Phenols
GW-652	BG	03/23/91	11:42	STD, Phenols
GW-653	BG	03/23/91	12:48	STD, Phenols
GW-291	BG	03/24/91	9:55	STD
GW-623	BG	03/24/91	12:10	STD
GW-627	BG	03/24/91	13:37	STD, Phenols
GW-071	BG	03/24/91	14:40	STD
GW-624	BG	03/24/91	15:47	STD, Phenols
GW-125	S3	03/25/91	10:23	STD
GW-520	OLF	03/25/91	11:02	STD, Tc
GW-119	BG	03/25/91	12:10	STD
GW-118	BG	03/25/91	12:54	STD
GW-117	BG	03/25/91	14:00	STD, Phenols
GW-639	BG	03/25/91	14:25	STD
GW-123	S3	03/25/91	15:40	STD
GW-640	BG	03/25/91	15:45	STD
GW-641	BG	03/25/91	16:35	STD
GW-531	OLF	03/26/91	10:38	STD
GW-535	OLF	03/26/91	11:25	STD
GW-532	OLF	03/26/91	11:26	STD
GW-630	OLF	03/26/91	12:20	STD
GW-537	OLF	03/26/91	13:03	STD
GW-533	OLF	03/26/91	13:37	STD
GW-534	OLF	03/26/91	13:42	STD
GW-629	BG	03/26/91	15:30	STD, Phenols
GW-538	OLF	03/28/91	10:19	STD

Second Quarter 1991

GW-115	S3	04/03/91	12:14	STD, Tc, U
GW-324	S3	04/03/91	14:35	STD, U
GW-325	S3	04/04/91	9:19	STD, U
GW-613	S3	04/04/91	10:37	STD, U
GW-614	S3	04/04/91	11:54	STD, U
GW-347	S3	04/04/91	13:25	STD
GW-348	S3	04/04/91	13:48	STD
GW-323	SPI	04/04/91	15:42	STD
GW-317	SPI	04/06/91	9:38	STD, U
GW-123	S3	04/06/91	10:52	STD
GW-125	S3	04/06/91	13:05	STD
GW-649	OLF	04/06/91	14:45	STD, Tc, U
GW-316	SPI	04/08/91	11:05	STD
GW-315	SPI	04/08/91	12:49	STD

APPENDIX D
Monitoring-Well Sampling Sequence

WELL NO.	LOCATION	DATE	TIME	PARAMETERS
GW-314	SPI	04/08/91	14:20	STD
GW-313	SPI	04/09/91	10:30	STD
GW-615	S3	04/10/91	17:20	STD
GW-616	S3	04/12/91	18:17	STD
GW-122	S3	04/13/91	11:03	STD
GW-526	S3	04/13/91	15:30	STD
GW-345	S3	04/14/91	10:00	STD
GW-101	S3	04/14/91	11:50	STD
GW-243	S3	04/18/91	12:30	STD, U, Tc, Sr, H3, I, Pu, Am, Np
GW-309	RS	04/25/91	13:50	STD, Tc, Sr, Cs, H3, I
GW-311	RS	04/26/91	10:51	STD, H3, I
GW-312	RS	04/26/91	12:14	STD, H3, I
GW-307	RS	04/26/91	13:30	STD, H3, I
GW-306	RS	04/26/91	14:50	STD, Tc, Sr, Cs, H3, I
GW-308	RS	04/30/91	12:46	STD, H3, I
GW-310	RS	04/30/91	14:05	STD, H3, I
GW-648	RS	05/01/91	10:20	STD, Tc, H3, I
GW-084	OLF	05/01/91	11:26	STD, U
GW-043	OLF	05/01/91	13:31	STD, U
GW-044	OLF	05/01/91	14:32	STD, U
GW-013	OLF	05/02/91	11:32	STD
GW-601	OLF	05/04/91	15:22	STD
GW-602	OLF	05/06/91	13:03	STD
GW-086	OLF	05/09/91	11:25	STD
GW-085	OLF	05/09/91	11:58	STD
GW-076	OLF	05/09/91	14:10	STD
GW-005	OLF	05/09/91	14:30	STD
GW-074	OLF	05/10/91	10:40	STD
GW-644	OLF	05/10/91	12:09	STD
GW-075	OLF	05/10/91	12:12	STD
GW-646	OLF	05/10/91	13:17	STD, Tc
GW-647	OLF	05/10/91	14:50	STD, Tc
GW-366	OLF	05/11/91	9:29	STD, Tc
GW-367	OLF	05/11/91	13:05	STD, Tc
GW-364	OLF	05/12/91	.	STD, Tc
GW-520	OLF	05/12/91	9:15	STD, Tc
GW-063	OLF	05/12/91	13:25	STD
GW-227	OLF	05/12/91	14:10	STD
GW-226	OLF	05/13/91	11:27	STD
GW-365	OLF	05/14/91	12:52	STD, Tc
GW-362	OLF	05/15/91	13:57	STD
GW-636	OLF	05/16/91	13:40	STD, Tc
GW-637	OLF	05/17/91	10:00	STD, Tc
GW-638	OLF	05/17/91	13:02	STD, Tc
GW-645	OLF	05/17/91	14:45	STD, Tc
GW-064	OLF	05/17/91	15:48	STD
GW-225	OLF	05/17/91	20:05	STD

APPENDIX D
Monitoring-Well Sampling Sequence

WELL NO.	LOCATION	DATE	TIME	PARAMETERS
GW-372	BG	05/23/91	11:29	STD,U
GW-373	BG	05/23/91	15:47	STD,U
GW-080	BG	05/24/91	13:24	STD,U
GW-056	BG	05/24/91	14:30	STD
GW-683	EXP	05/24/91	14:38	STD
GW-684	EXP	05/30/91	13:32	STD
GW-054	BG	05/31/91	12:20	STD
GW-685	EXP	06/01/91	11:15	STD
GW-079	BG	06/04/91	11:00	STD,U
GW-209	EXP	06/04/91	13:37	STD
GW-210	EXP	06/05/91	11:05	STD
GW-077	BG	06/05/91	12:42	STD
GW-078	BG	06/05/91	13:18	STD
GW-211	EXP	06/06/91	10:15	STD
GW-643	BG	06/08/91	12:00	STD,U
GW-370	BG	06/10/91	10:31	STD
GW-162	BG	06/11/91	9:17	STD,U
GW-082	BG	06/11/91	11:48	STD
GW-083	BG	06/11/91	11:54	STD
GW-042	BG	06/11/91	14:02	STD,U
GW-089	BG	06/11/91	14:34	STD
GW-163	BG	06/12/91	14:32	STD,U
GW-342	BG	06/13/91	18:07	STD,U
GW-164	BG	06/13/91	18:26	STD,U
GW-343	BG	06/14/91	14:00	STD,U
GW-037	BG	06/14/91	15:26	STD
GW-642	BG	06/15/91	9:40	STD,U
GW-654	BG	06/15/91	11:20	STD,U
GW-655	BG	06/15/91	13:45	STD,U
GW-344	BG	06/15/91	14:15	STD,U
GW-119	BG	06/17/91	10:42	STD
GW-118	BG	06/17/91	12:05	STD
GW-117	BG	06/17/91	13:07	STD,Phenols
GW-069	BG	06/17/91	14:42	STD
GW-072	BG	06/18/91	9:15	STD
GW-095	BG	06/18/91	12:52	STD
GW-695	EXP	06/18/91	14:05	STD
GW-703	EXP	06/18/91	18:00	STD
GW-057	BG	06/19/91	13:40	STD
GW-694	EXP	06/19/91	13:48	STD
GW-053	BG	06/19/91	16:44	STD
GW-061	BG	06/19/91	18:00	STD,U
GW-058	BG	06/20/91	9:25	STD,U
GW-704	EXP	06/20/91	12:20	STD
GW-018	BG	06/20/91	12:30	STD
GW-705	EXP	06/20/91	13:05	STD
GW-622	BG	06/20/91	14:41	STD

APPENDIX D
Monitoring-Well Sampling Sequence

WELL NO.	LOCATION	DATE	TIME	PARAMETERS
GW-706	EXP	06/20/91	16:08	STD
GW-621	BG	06/20/91	17:01	STD
GW-290	BG	06/20/91	18:15	STD
GW-626	BG	06/20/91	19:56	STD, Phenols
GW-291	BG	06/21/91	11:11	STD
GW-651	BG	06/21/91	13:20	STD, Phenols
GW-071	BG	06/21/91	14:00	STD
GW-623	BG	06/21/91	14:10	STD
GW-652	BG	06/21/91	14:35	STD, Phenols
GW-624	BG	06/21/91	15:58	STD, Phenols
GW-653	BG	06/21/91	17:30	STD, Phenols
GW-640	BG	06/22/91	9:34	STD
GW-641	BG	06/22/91	11:00	STD
GW-627	BG	06/22/91	13:10	STD, Phenols
GW-629	BG	06/22/91	13:27	STD, Phenols
GW-639	BG	06/22/91	13:40	STD
GW-531	OLF	06/24/91	12:44	STD
GW-532	OLF	06/24/91	14:05	STD
GW-535	OLF	06/24/91	14:53	STD
GW-630	OLF	06/25/91	10:59	STD
GW-537	OLF	06/25/91	11:48	STD
GW-533	OLF	06/25/91	12:21	STD
GW-534	OLF	06/25/91	13:06	STD
GW-538	OLF	06/25/91	13:40	STD

Third Quarter 1991

GW-115	S3	07/01/91	12:52	STD
GW-613	S3	07/01/91	14:03	STD
GW-614	S3	07/02/91	11:46	STD
GW-649	OLF	07/02/91	13:03	STD
GW-347	S3	07/02/91	14:27	STD
GW-348	S3	07/02/91	15:54	STD
GW-648	RS	07/03/91	11:57	STD
GW-323	SPI	07/03/91	14:50	STD
GW-317	SPI	07/10/91	13:23	STD
GW-123	S3	07/12/91	10:26	STD
GW-125	S3	07/12/91	11:52	STD
GW-316	SPI	07/18/91	12:02	STD
GW-313	SPI	07/18/91	14:49	STD
GW-314	SPI	07/20/91	10:30	STD
GW-315	SPI	07/20/91	12:58	STD
GW-616	S3	07/27/91	15:20	STD
GW-526	S3	08/02/91	13:00	STD, U, Am, Np, Tc, Sr, H3
GW-615	S3	08/05/91	18:45	STD, U, Am, Np, Tc, Sr, H3
GW-243	S3	08/06/91	15:23	STD
GW-630	OLF	08/09/91	10:09	STD

APPENDIX D
Monitoring-Well Sampling Sequence

WELL NO.	LOCATION	DATE	TIME	PARAMETERS
GW-084	OLF	08/09/91	11:03	STD
GW-044	OLF	08/09/91	12:24	STD
GW-043	OLF	08/12/91	11:50	STD
GW-085	OLF	08/13/91	10:00	STD
GW-309	RS	08/13/91	12:16	STD
GW-063	OLF	08/13/91	14:25	STD
GW-063	OLF	08/13/91	17:20	STD
GW-064	OLF	08/14/91	11:13	STD
GW-537	OLF	08/14/91	13:30	STD
GW-013	OLF	08/19/91	15:05	STD
GW-644	OLF	08/20/91	11:10	STD
GW-637	OLF	08/20/91	13:48	STD
GW-638	OLF	08/20/91	14:52	STD
GW-636	OLF	08/21/91	16:40	STD
GW-645	OLF	08/22/91	11:32	STD
GW-602	OLF	08/22/91	13:00	STD
GW-646	OLF	08/22/91	14:23	STD
GW-647	OLF	08/26/91	11:30	STD
GW-074	OLF	08/26/91	13:13	STD
GW-075	OLF	08/27/91	11:11	STD
GW-520	OLF	08/27/91	12:25	STD
GW-366	OLF	08/27/91	13:56	STD
GW-364	OLF	08/28/91	10:10	STD
GW-365	OLF	08/28/91	16:33	STD
GW-601	OLF	08/30/91	15:00	STD
GW-227	OLF	08/31/91	9:05	STD, U, Am, Np, Tc, Sr, H3
GW-225	OLF	08/31/91	13:32	STD
GW-373	BG	09/04/91	9:48	STD
GW-372	BG	09/04/91	10:35	STD
GW-643	BG	09/04/91	11:10	STD
GW-642	BG	09/04/91	13:36	STD
GW-343	BG	09/05/91	.	STD
GW-042	BG	09/05/91	9:47	STD
GW-655	BG	09/05/91	11:08	STD
GW-342	BG	09/05/91	15:55	STD
GW-080	BG	09/07/91	9:13	STD
GW-089	BG	09/07/91	13:20	STD
GW-344	BG	09/08/91	15:10	STD
GW-370	BG	09/09/91	10:00	STD
GW-641	BG	09/09/91	11:30	STD
GW-640	BG	09/09/91	12:30	STD
GW-371	BG	09/09/91	13:00	STD
GW-639	BG	09/09/91	16:45	STD
GW-621	BG	09/10/91	10:08	STD
GW-705	EXP	09/10/91	18:35	STD
GW-703	EXP	09/11/91	14:34	STD
GW-705	EXP	09/11/91	17:10	STD

APPENDIX D
Monitoring-Well Sampling Sequence

WELL NO.	LOCATION	DATE	TIME	PARAMETERS
GW-704	EXP	09/12/91	11:25	STD
GW-706	EXP	09/13/91	10:35	STD
GW-694	EXP	09/13/91	12:55	STD
GW-695	EXP	09/13/91	14:30	STD
GW-654	BG	09/14/91	9:13	STD
GW-286	BG	09/14/91	11:00	STD
GW-287	BG	09/14/91	12:30	STD
GW-083	BG	09/14/91	13:30	STD
GW-652	BG	09/14/91	15:00	STD
GW-651	BG	09/15/91	10:00	STD
GW-056	BG	09/15/91	11:45	STD
GW-054	BG	09/15/91	12:15	STD
GW-653	BG	09/15/91	14:00	STD
GW-685	EXP	09/18/91	12:16	STD
GW-683	EXP	09/19/91	11:14	STD
GW-684	EXP	09/19/91	14:42	STD
GW-069	BG	09/20/91	11:25	STD
GW-058	BG	09/20/91	13:09	STD
GW-118	BG	09/23/91	9:05	STD
GW-119	BG	09/23/91	10:20	STD
GW-117	BG	09/23/91	12:42	STD
GW-095	BG	09/23/91	13:32	STD
GW-627	BG	09/25/91	11:10	STD
GW-622	BG	09/25/91	13:00	STD
GW-082	BG	09/25/91	14:30	STD
GW-061	BG	09/26/91	9:35	STD, U, Am, Np, Tc, Sr, H3
GW-053	BG	09/26/91	11:45	STD
GW-626	BG	09/26/91	13:27	STD
GW-623	BG	09/26/91	16:10	STD

Fourth Quarter 1991

GW-115	S3	10/01/91	9:44	STD
GW-613	S3	10/01/91	10:55	STD
GW-614	S3	10/01/91	14:12	STD
GW-649	OLF	10/02/91	9:20	STD
GW-347	S3	10/02/91	11:15	STD
GW-348	S3	10/02/91	13:11	STD
GW-323	SPI	10/03/91	.	STD
GW-648	RS	10/03/91	8:44	STD
GW-317	SPI	10/03/91	13:10	STD
GW-123	S3	10/04/91	10:45	STD
GW-125	S3	10/04/91	13:10	STD
GW-316	SPI	10/05/91	9:15	STD
GW-313	SPI	10/05/91	10:00	STD
GW-314	SPI	10/05/91	11:51	STD
GW-315	SPI	10/05/91	14:00	STD

APPENDIX D
Monitoring-Well Sampling Sequence

WELL NO.	LOCATION	DATE	TIME	PARAMETERS
GW-526	S3	10/06/91	14:10	STD,U,Am,Np,Tc,Sr,H3
GW-616	S3	10/07/91	17:10	STD
GW-615	S3	10/08/91	17:00	STD,U,Am,Np,Tc,Sr,H3
GW-243	S3	10/11/91	12:33	STD
GW-630	OLF	10/14/91	11:20	STD
GW-084	OLF	10/14/91	12:54	STD
GW-044	OLF	10/14/91	13:55	STD
GW-043	OLF	10/15/91	10:20	STD
GW-085	OLF	10/15/91	12:45	STD
GW-644	OLF	10/17/91	10:31	STD
GW-013	OLF	10/17/91	11:15	STD
GW-637	OLF	10/17/91	13:45	STD
GW-638	OLF	10/17/91	14:26	STD
GW-645	OLF	10/18/91	11:15	STD
GW-602	OLF	10/18/91	14:13	STD
GW-636	OLF	10/18/91	14:35	STD
GW-646	OLF	10/21/91	10:54	STD
GW-647	OLF	10/21/91	13:33	STD
GW-074	OLF	10/21/91	16:15	STD
GW-309	RS	10/23/91	10:18	STD
GW-063	OLF	10/23/91	11:55	STD
GW-064	OLF	10/23/91	14:10	STD
GW-537	OLF	10/23/91	14:56	STD
GW-520	OLF	10/24/91	11:00	STD
GW-075	OLF	10/25/91	13:52	STD
GW-366	OLF	10/25/91	14:20	STD
GW-364	OLF	10/28/91	12:52	STD
GW-365	OLF	10/29/91	13:13	STD
GW-601	OLF	10/31/91	9:38	STD
GW-227	OLF	11/01/91	10:31	STD,U,Am,Np,Tc,Sr,H3
GW-225	OLF	11/01/91	15:14	STD
GW-373	BG	11/02/91	12:40	STD
GW-372	BG	11/02/91	14:55	STD
GW-643	BG	11/03/91	8:26	STD
GW-642	BG	11/03/91	9:35	STD
GW-042	BG	11/04/91	10:50	STD
GW-089	BG	11/04/91	13:55	STD
GW-655	BG	11/05/91	12:07	STD
GW-342	BG	11/05/91	14:50	STD
GW-080	BG	11/06/91	10:25	STD
GW-343	BG	11/07/91	14:53	STD
GW-344	BG	11/07/91	17:45	STD
GW-040	BG	11/12/91	11:30	STD
GW-371	BG	11/14/91	12:50	STD
GW-370	BG	11/14/91	14:00	STD
GW-640	BG	11/15/91	13:30	STD
GW-641	BG	11/15/91	15:10	STD

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APPENDIX D
Monitoring-Well Sampling Sequence

WELL NO.	LOCATION	DATE	TIME	PARAMETERS
GW-639	BG	11/16/91	11:50	STD
GW-621	BG	11/16/91	13:38	STD
GW-705	EXP	11/17/91	16:30	STD
GW-703	EXP	11/18/91	14:40	STD
GW-706	EXP	11/19/91	14:46	STD
GW-704	EXP	11/19/91	16:38	STD
GW-695	EXP	11/22/91	11:15	STD
GW-694	EXP	11/22/91	14:17	STD
GW-654	BG	11/23/91	9:30	STD
GW-287	BG	11/23/91	10:45	STD
GW-286	BG	11/23/91	11:35	STD
GW-652	BG	11/23/91	13:40	STD
GW-651	BG	11/23/91	15:20	STD
GW-054	BG	11/24/91	10:30	STD
GW-710	EXP	12/05/91	16:02	STD
GW-712	EXP	12/09/91	14:46	STD
GW-711	EXP	12/10/91	14:12	STD
GW-056	BG	12/11/91	11:00	STD
GW-653	BG	12/11/91	12:50	STD
GW-683	EXP	12/12/91	11:11	STD
GW-684	EXP	12/12/91	14:07	STD
GW-685	EXP	12/12/91	14:40	STD
GW-069	BG	12/16/91	11:28	STD
GW-095	BG	12/16/91	17:11	STD
GW-058	BG	12/17/91	10:45	STD
GW-627	BG	12/18/91	13:57	STD
GW-118	BG	12/19/91	10:40	STD
GW-119	BG	12/19/91	11:20	STD
GW-117	BG	12/19/91	12:07	STD
GW-622	BG	12/21/91	9:06	STD
GW-082	BG	12/21/91	10:15	STD
GW-061	BG	12/21/91	12:15	STD, U, Am, Np, Tc, Sr, H3
GW-053	BG	12/22/91	9:35	STD
GW-626	BG	12/22/91	11:45	STD
GW-623	BG	12/22/91	16:05	STD
GW-083	BG	12/27/91	10:30	STD

APPENDIX E
GROUNDWATER AND SURFACE-WATER QUALITY DATA

EXPLANATION

LOCATION:

BG - Bear Creek Burial Grounds WMA
EXP - Exit-Pathway Monitoring Well
OLF - Oil Landfarm WMA
S3 - S-3 Site
SPI - Spoil Area I
RS - Rust Spoil Area

ALL DATA:

. - Not Analyzed

VOLATILE ORGANIC COMPOUNDS:

All results in micrograms per Liter (ug/L).

Compound not detected at the following minimum attainable detection limits (ug/L):

G =	5	T =	250
N =	10	F =	300
V =	20	E =	400
Z =	25	W =	500
D =	30	L =	1000
A =	40	P =	2000
M =	50	H =	4000
X =	80	J =	5000
Y =	90	S =	10000
K =	100	U =	20000
B =	130	C =	40000
R =	200		

EXPLANATION cont'd

METALS, MAJOR IONS, MISCELLANEOUS, AND RADIOLOGICAL PARAMETERS:

All analyses are by Inductively Coupled Plasma (ICP) Spectroscopy unless otherwise noted.

Bicarbonate and carbonate alkalinity reported as CaCO_3 .

<	- Compound analyzed but not detected at the given minimum attainable detection limit
mg/L	- milligrams per Liter
AAS	- Atomic Absorption Spectroscopy
CVAA	- Cold Vapor Atomic Absorption
DIS	- Dissolved Concentration (Filtered Sample)
TOT	- Total Concentration (Unfiltered Sample)
Fluor	- Fluorometric
DO	- Dissolved Oxygen
TOC	- Total Organic Carbon
TOX	- Total Organic Halogens
TDS	- Total Dissolved Solids
TSS	- Total Suspended Solids
Temp.	- Water Temperature
Sp. Cond.	- Specific Conductance
ppm	- parts per million
umho/cm	- micromhos per centimeter
NTU	- Nephelometric Turbidity Unit
mV	- millivolts
pCi/L	- picoCuries per liter
Bq/L	- Becquerels per liter
CE +/-	- Counting Error (two standard deviations)
111111	- None Found
999999	- Off Scale
888888	- Flowing Artesian Well

TRACE METALS AND MAJOR IONS

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-043						GW-044	
	OLF						OLF	
	05/01/91		08/12/91		10/15/91		01/22/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.71	0.027	1.3	0.037	4.8	0.059	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	0.063	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.018	0.014	0.02	0.015	0.027	0.013	0.25	0.23
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	<0.004	<0.004	0.02	0.043	0.032	0.0052	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.016	<0.01	<0.01	<0.01
Chromium	0.03	0.022	<0.01	<0.01	0.013	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.009	0.0049	<0.004	<0.004	<0.004	0.0045
Iron	0.69	0.032	1.2	0.031	2.8	0.042	0.012	<0.004
Lead (AAS)	<0.004	<0.004	0.0079	<0.004	0.0093	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	14	13	12	8.5	.	.	7.6	11
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.032	0.031	0.039	0.039	0.019	0.022	0.083	0.08
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.016	<0.002	0.0062	0.0049	0.015	0.006	0.0018	0.0019
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	60	.	68	.	47	.	139	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	16	16	20	20	9.5	12	45	44
Chloride	1	.	<1	.	1	.	1	.
Fluoride	<0.1	.	<0.1	.	0.1	.	<0.1	.
Magnesium	2.9	2.8	3.8	3.7	2.6	2.4	3.3	3.2
Manganese	0.0076	<0.001	0.02	0.0019	0.04	0.0035	0.0012	<0.001
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	0.78	<0.6	0.93	0.73	1.8	1.1	0.78	0.71
Sodium	7.1	7	5.5	6.2	6.8	6.6	5	4.4
Sulfate	8	.	9	.	7	.	6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-044						GW-052	
	OLF						BG	
	05/01/91		08/09/91		10/14/91		03/20/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.027	<0.02	0.026	<0.02	<0.02	1.4	0.21
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	0.057	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.25	0.25	0.21	0.2	0.22	0.22	0.079	0.07
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.17	<0.004	<0.004	<0.004	0.019	0.024	1.3	1.7
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	0.033	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.0061	<0.005	0.016	0.0099	0.035	<0.005	1.6	0.074
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.02	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	11	12	7.8	8	.	.	4.9	3.6
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.078	0.079	0.073	0.072	0.08	0.079	0.13	0.13
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.061	0.05
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	<0.002	<0.002	<0.002	0.0056	0.0022	0.012	0.0069
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	132	.	125	.	132	.	119	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	43	44	47	45	50	49	62	64
Chloride	1	.	<1	.	<1	.	12	.
Fluoride	<0.1	.	<0.1	.	0.1	.	0.3	.
Magnesium	3.1	3.1	<5	<5	3.2	3.2	9.1	9.3
Manganese	<0.001	<0.001	0.013	<0.001	0.0089	0.0011	0.044	0.0059
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	12	.
Potassium	0.63	0.61	1.1	1	0.71	0.6	2.1	1.6
Sodium	4.9	4.8	4.5	4.5	3.9	3.6	9.8	9.8
Sulfate	6	.	<1	.	6	.	24	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-005				GW-013			
	OLF				OLF			
	01/26/91		05/09/91		01/28/91		05/02/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	2	0.084	0.39	0.023	0.022	0.056	<0.02	0.078
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.43	0.33	0.23	0.21	0.51	0.51	0.53	0.51
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00031	0.0003
Boron	0.34	0.19	0.45	0.49	0.015	0.022	0.013	0.042
Cadmium (AAS)	0.0073	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.0048	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	0.01	<0.01	0.011	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.014	<0.004	0.0065	<0.004	0.0073	<0.004	0.012	0.0082
Iron	8.4	0.015	3	0.047	2	0.98	3.4	1.1
Lead (AAS)	0.079	<0.004	0.0081	<0.004	<0.004	<0.004	0.0054	<0.004
Mercury (CVAA)	0.0097	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	0.00027	<0.0002
Molybdenum	<0.01	0.016	0.02	0.022	<0.01	<0.01	<0.01	<0.01
Nickel	0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.8	2.7	7.5	7	9.1	8.9	8.7	9.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.0072	<0.006
Strontium	0.5	0.5	0.41	0.4	0.22	0.22	0.23	0.23
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.062	0.057	0.022	0.022	<0.001	<0.001	<0.001	<0.001
Vanadium	0.0077	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.14	0.01	0.01	<0.002	0.0096	0.0072	0.011	0.0062
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	261	.	204	.	72	.	320	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	84	85	60	59	110	110	100	100
Chloride	4	.	3	.	6	.	6	.
Fluoride	1.6	.	1.88	.	<0.1	.	<0.1	.
Magnesium	16	16	13	13	13	13	12	13
Manganese	1.3	1.1	0.57	0.5	1	1	1.1	1.1
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	7.7	7.5	8.5	8.4	1.6	1.6	1.7	1.7
Sodium	6.7	7.1	6.4	6.3	4.1	4.5	4.5	4.6
Sulfate	36	.	12	.	4	.	4	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-013				GW-018			
	OLF				BG			
	08/19/91		10/17/91		03/21/91		06/20/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.033	<0.02	<0.02	<0.02	<0.02	<0.02	1	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.46	0.46	0.48	0.49	0.039	0.032	0.079	0.076
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.022	0.018	0.018	0.014	<0.004	<0.004	0.058	0.074
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0021
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.031	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.018	0.022	0.023	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0069	0.0051	<0.004	<0.004	0.015	<0.004
Iron	1.4	1.1	1.3	1.2	0.032	<0.005	1.1	0.021
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0042	<0.0042
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.025	0.015
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	4	4.7	8.3	6.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.022
Strontium	0.2	0.2	0.21	0.21	0.016	0.019	0.19	0.2
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0074	0.019	0.024	0.0062	0.018	0.0054	0.041	0.03
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	292	.	298	.	19	.	18	.
Alkalinity-CO3	<1	.	<1	.	<1	.	2	.
Calcium	100	110	100	98	6.4	8.2	10	6
Chloride	5	.	5	.	2	.	2	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	12	13	12	11	0.62	0.64	1.3	0.85
Manganese	1.1	1.2	0.95	0.98	0.011	0.0059	0.11	0.087
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.7	2	2.1	1.8	0.91	1.1	0.95	1.3
Sodium	3.8	3.8	4.1	4.1	1.1	1.1	1.4	1.6
Sulfate	4	.	5	.	2	.	1	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-037				GW-040		GW-042	
	BG				BG		BG	
	03/09/91		06/14/91		11/12/91		03/05/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.067	<0.02	<0.02	0.28	<0.02	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.071	0.07	0.1	0.12	0.078	0.076	0.12	0.12
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.023	0.016	0.02	0.015	0.025	0.022	0.025	0.0066
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.023	0.031
Cadmium	0.0061	<0.003	<0.003	<0.003	<0.003	<0.003	0.029	0.036
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0055	<0.004	<0.004	<0.004	0.0051	0.012	0.0066	0.0076
Iron	1.7	1.7	0.68	0.013	1.3	0.58	1.2	1
Lead (AAS)	<0.004	<0.004	0.02	<0.004	0.0055	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.024	0.023
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	13	12	12	12	.	.	9.5	8.6
Silver	0.0082	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.13	0.13	0.13	0.12	0.09	0.14	0.014	0.013
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.055	0.054	0.0072	<0.002	0.033	0.016	0.036	0.05
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	166	.	166	.	41	.	25	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	42	42	35	35	7.8	7.5	3.2	3.1
Chloride	1	.	<5	.	2	.	1	.
Fluoride	0.3	.	0.29	.	0.3	.	0.2	.
Magnesium	14	14	14	14	6.7	5.9	3.6	3.3
Manganese	1.2	1.2	1.1	0.93	1.1	0.84	0.24	0.22
Nitrate-N	<0.2	.	<1	.	<0.2	.	<0.2	.
Potassium	2	1.9	2	2	1.7	2.5	0.82	0.78
Sodium	12	11	12	12	13	14	2.6	2.3
Sulfate	33	.	32	.	34	.	7	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-042						GW-043	
	BG						OLF	
	06/11/91		09/05/91		11/04/91		01/22/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	1.7	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.14	0.12	0.15	0.13	0.13	0.13	0.023	0.017
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.029	<0.004	0.045	0.0042	0.031	0.023	<0.004	<0.004
Cadmium (AAS)	0.0093	0.017	0.058	0.037	0.02	0.017	0.0027	0.0038
Cadmium	0.0096	0.019	0.056	0.042	0.021	0.017	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.009	0.0081	0.024	0.0086	0.015	0.017	0.0072	<0.004
Iron	1.1	0.72	1	0.39	1.2	1.1	1.4	0.033
Lead (AAS)	0.01	<0.004	<0.004	<0.004	0.0092	<0.004	0.0076	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.02	0.02	0.025	0.021	0.022	0.022	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	11	11	.	.	.	.	9.5	8.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.016	0.016	0.016	0.028	0.015	0.015	0.019	0.031
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.015	0.025	0.076	0.058	0.043	0.029	0.029	0.0047
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	24	.	23	.	24	.	26	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	3.7	3.7	3.7	3.9	3.7	3.5	8.3	16
Chloride	1	.	1	.	1.4	.	1	.
Fluoride	0.19	.	0.3	.	0.2	.	<0.1	.
Magnesium	4.4	4.3	4.4	4.8	4.4	4.3	2	3
Manganese	0.28	0.27	0.28	0.3	0.28	0.28	0.03	<0.001
Nitrate-N	<0.2	.	0.4	.	<0.2	.	<0.2	.
Potassium	0.97	1.1	1.2	1.2	1.1	3	0.97	0.71
Sodium	3.3	3.3	3	3	3.1	5	5.5	6.3
Sulfate	8	.	7	.	8.4	.	8	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-053							
	BG							
	03/19/91		06/19/91		09/26/91		12/22/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.4	9.022	0.11	0.056	3.8	0.028	0.087	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.22	0.22	0.25	0.25	0.34	0.24	0.24	0.21
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	0.00045	<0.0003	<0.0003	<0.0003
Boron	0.27	0.28	0.37	0.31	0.33	0.31	0.31	0.34
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0098	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0075	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.44	<0.01	<0.01	<0.01
Chromium	0.026	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.0065	<0.005	<0.005	<0.005
Copper	0.012	0.011	0.0053	0.0048	0.015	<0.004	<0.004	0.0073
Iron	0.55	0.073	0.29	0.016	16	0.069	0.24	<0.005
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.058	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.024	0.024	0.034	0.024	0.054	0.03	0.02	0.022
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6.7	6.1	6.3	5.3	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.43	0.42	0.46	0.45	0.57	0.47	0.4	0.37
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.002	0.001	0.001	0.008	0.009	0.003	0.004
Vanadium	<0.005	<0.005	<0.005	<0.005	0.0073	<0.005	<0.005	<0.005
Zinc	0.0096	0.021	0.02	0.01	0.024	0.0092	0.014	0.015
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	180	.	249	.	265	.	259	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	110	110	110	110	170	110	120	110
Chloride	67	.	22	.	56	.	46.2	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	0.1	.
Magnesium	14	14	14	14	19	15	14	12
Manganese	0.057	0.051	0.063	0.05	0.25	0.096	0.067	0.051
Nitrate-N	<0.2	.	0.26	.	<0.2	.	0.9	.
Potassium	2.7	2.5	2.3	1.9	5	2.9	2.6	3.1
Sodium	8.9	9.3	9.3	7.4	9.5	9	9	9.5
Sulfate	32	.	32	.	29	.	27.4	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-054							
	BG							
	02/27/91		05/31/91		09/15/91		11/24/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	3.3	0.1	1.8	0.069	0.68	0.04	0.57	0.056
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.095	0.075	0.1	0.093	0.095	1.4	0.1	0.09
Beryllium	0.00034	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.93	0.9	0.95	0.93	0.91	0.87	0.92	0.97
Cadmium (AAS)	0.0021	<0.002	<0.002	<0.002	<0.002	<0.002	0.0085	<0.002
Cadmium	0.0041	0.0041	0.0031	<0.003	<0.003	<0.003	0.0078	<0.003
Chromium (AAS)	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.021	<0.01
Chromium	0.021	<0.01	0.014	0.01	<0.01	<0.01	0.013	<0.01
Cobalt	<0.005	<0.005	0.0054	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0079	<0.004	0.01	0.019	<0.004	0.0063	0.019	<0.004
Iron	3.5	0.21	1.9	0.3	1.4	0.078	2	0.37
Lead (AAS)	0.032	<0.004	0.016	<0.004	0.0043	<0.004	0.073	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	0.00037
Molybdenum	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.014	<0.01	<0.01	<0.01	0.012	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9	3.6	6.8	4.1	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.13	0.12	0.15	0.15	0.13	0.15	0.12	0.12
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.024	0.0038	0.026	0.017	0.011	0.0072	0.039	0.0079
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	261	.	243	.	256	.	254	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	77	77	97	93	94	92	92	90
Chloride	5	.	8	.	8	.	8	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	12	12	13	13	13	13	13	13
Manganese	0.59	0.39	0.81	0.49	0.81	0.28	1.3	0.82
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2.4	1.6	2	1.7	1.4	2.2	1.8	1.4
Sodium	2.2	1.8	1.8	2	2	2	2.2	2.1
Sulfate	15	.	17	.	16	.	16	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-056							
	BG							
	02/26/91		05/24/91		09/15/91		12/11/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.15	0.05	0.33	0.057	0.16	0.032	0.32	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.17	0.14	0.16	0.13	0.15	0.13	0.14	0.11
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.061	0.075	1.2	0.069	0.042	0.047	0.046	0.048
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.021	<0.01
Chromium	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	0.016	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0041	<0.004	0.0071	<0.004	<0.004	0.0043	0.0082	0.0052
Iron	1.3	0.13	1.3	0.26	1.4	0.3	2.2	0.38
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0098	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.01	<0.01	0.065	0.035	0.11
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.9	4.4	4.9	4.4	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.12	0.11	0.11	0.1	0.098	0.095	0.098	0.084
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.006	0.004	0.006	0.004	0.005	0.004	0.004	0.004
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0072	0.018	0.015	0.031	0.0092	0.024	0.015	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	253	.	252	.	267	.	261	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	82	62	84	25	82	76	87	70
Chloride	35	.	53	.	41	.	50	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	0.2	.
Magnesium	27	21	26	22	28	25	28	23
Manganese	0.25	0.084	0.25	0.085	0.29	0.15	0.35	0.18
Nitrate-N	0.6	.	0.44	.	<0.2	.	0.2	.
Potassium	1.7	3.9	1.6	2.5	1	3.1	1.9	2.7
Sodium	19	23	22	16	19	20	20	20
Sulfate	25	.	30	.	25	.	27	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-057				GW-058			
	BG				BG			
	02/26/91		06/19/91		03/19/91		06/20/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.024	0.054	0.072	0.048	1.3	0.039	0.53	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.057	0.062	0.069	0.068	0.071	0.063	0.069	0.064
Beryllium	0.00034	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.038	0.039	0.026	0.022	0.055	0.031	0.055
Cadmium (AAS)	<0.002	<0.002	0.0049	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.0059	<0.003	0.0043	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	0.71	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	0.098	<0.01	0.04	0.017	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0071	<0.004	0.015	0.012	<0.004	0.0056
Iron	0.24	0.28	1	0.37	1.1	0.013	0.6	0.0059
Lead (AAS)	<0.004	<0.004	0.016	<0.004	0.005	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.043	<0.01	0.013	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	2.7	2.8	3.1	3.2	5	3.5	4.1	3.9
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.16	0.16	0.17	0.17	0.099	0.1	0.14	0.14
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.002	0.001	0.028	0.029	0.01	0.009
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	0.033	0.018	0.0073	0.0068	0.0088	0.01	0.011
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	277	.	283	.	264	.	291	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	81	83	85	86	71	73	78	76
Chloride	49	.	54	.	13	.	6	.
Fluoride	<0.1	.	0.1	.	0.1	.	0.2	.
Magnesium	17	17	16	17	27	27	32	31
Manganese	0.15	0.15	0.45	0.41	0.058	<0.001	0.044	0.013
Nitrate-N	<0.2	.	<0.2	.	5	.	0.64	.
Potassium	0.99	0.94	1.4	1.2	1.6	1.3	1.3	1.2
Sodium	51	52	39	37	8.2	8.7	4.8	4.7
Sulfate	28	.	31	.	23	.	21	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-058				GW-061			
	BG				BG			
	09/20/91		12/17/91		03/19/91		06/19/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	2.1	0.032	1.9	0.047	0.62	0.042	0.65	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.074	0.063	0.089	0.073	0.064	0.058	0.063	0.059
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.046	0.028	0.087	0.095	0.052	0.055	0.048	0.024
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.022	0.013	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0071	0.005	0.0071	<0.004	0.012	0.0094	<0.004	<0.004
Iron	1.8	0.0075	3.1	0.027	0.74	0.01	0.47	0.0067
Lead (AAS)	<0.004	<0.004	0.008	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	3.8	3.4	4.6	3.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.078	0.077	0.095	0.094	0.12	0.12	0.13	0.12
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.016	0.016	0.032	0.029	0.025	0.023	0.025	0.021
Vanadium	0.0058	<0.005	0.0071	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.025	0.011	0.04	0.018	0.0058	0.0077	0.01	0.0034
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	282	.	254	.	170	.	184	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	81	85	76	79	69	67	73	74
Chloride	10	.	23	.	8	.	6	.
Fluoride	0.1	.	0.1	.	<0.1	.	0.1	.
Magnesium	32	33	26	27	9.2	9	9.1	9.5
Manganese	0.071	<0.001	0.11	<0.001	0.2	0.002	0.056	0.0027
Nitrate-N	2.11	.	6.18	.	7	.	6	.
Potassium	1.9	1.9	1.7	1.9	1.3	1.1	1.2	1.2
Sodium	6.4	6.3	15	15	4.1	4	3.6	4
Sulfate	19	.	228	.	22	.	20	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-061				GW-063			
	BG				OLF			
	09/26/91		12/21/91		02/08/91		05/12/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	1.7	<0.02	0.6	0.028	2.4	0.053	2.1	0.079
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	0.079	<0.05	<0.05
Barium	0.2	0.18	0.083	0.077	0.12	0.099	0.097	0.085
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.34	0.14	0.064	0.054	0.022	0.0098	0.013	0.045
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	0.0042	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	0.034	<0.01
Chromium	0.011	<0.01	<0.01	<0.01	0.14	0.014	0.027	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.0054	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0055	<0.004	0.034	0.009	0.016	0.0078
Iron	1.5	<0.005	0.47	0.014	3.6	<0.005	2.3	0.0053
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.018	<0.004	0.015	0.0049
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	0.05	0.014	0.019	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	6.9	3.8	7.4	4.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.24	0.25	0.12	0.12	0.089	0.081	0.075	0.075
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.08	0.07	0.034	0.036	0.002	0.002	0.002	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	0.0065	<0.005	0.0067	<0.005
Zinc	0.014	0.0029	0.024	0.021	0.047	0.015	0.035	0.033
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	221	.	171	.	262	.	248	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	110	110	77	77	88	77	76	69
Chloride	22	.	9.8	.	10	.	8	.
Fluoride	0.2	.	0.1	.	<0.1	.	0.13	.
Magnesium	18	17	11	10	28	23	23	21
Manganese	0.75	0.067	0.05	0.014	0.17	<0.001	0.099	0.001
Nitrate-N	20.1	.	12.2	.	4	.	4	.
Potassium	2.6	1.6	1.6	1.4	1.9	1.7	1.8	1.5
Sodium	12	12	5.7	5.9	5.1	5	3.3	4.1
Sulfate	33	.	19.5	.	13	.	12	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-063				GW-064			
	OLF				OLF			
	08/13/91		10/23/91		02/20/91		05/17/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	0.35	0.035	2.6	0.05	0.15	0.12
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.076	0.076	0.13	0.13	0.06	0.048	0.058	0.048
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00031
Boron	0.036	0.027	0.025	0.034	0.031	0.032	0.052	0.028
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0023
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0062	<0.003
Chromium (AAS)	<0.01	<0.01	0.044	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.012	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0076	0.0088	0.0042	<0.004	<0.004	0.0046
Iron	0.011	0.0053	0.57	0.0065	2.5	0.088	0.11	0.089
Lead (AAS)	<0.004	<0.004	0.0098	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.2	4.2	.	.	8.4	4.8	4.7	5.1
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.077	0.075	0.098	0.098	0.11	0.11	0.11	0.11
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.002	0.002	0.002	0.001	0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0089	0.0052	0.024	0.019	0.017	0.0048	0.0081	0.0096
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	250	.	319	.	290	.	279	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	78	76	96	90	110	110	95	100
Chloride	7	.	15	.	15	.	1	.
Fluoride	0.1	.	0.1	.	<0.1	.	<0.1	.
Magnesium	23	23	31	30	16	16	16	16
Manganese	0.0073	0.0056	0.021	<0.001	0.1	<0.001	0.007	0.0051
Nitrate-N	3.3	.	1.94	.	9	.	0.73	.
Potassium	1.5	1.4	2.1	3.7	2.5	1.8	2.9	2.7
Sodium	4.7	3.8	9.4	12	5.9	5.5	5.7	4.9
Sulfate	12	.	17	.	22	.	2	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-064				GW-069			
	OLF				BG			
	08/14/91		10/23/91		03/19/91		06/17/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.11	<0.02	0.23	<0.02	0.022	0.038	0.022	0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.043	0.042	0.049	<0.001	0.41	0.34	0.35	0.29
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.14	0.016	0.024	<0.004	0.11	0.14	0.18	0.13
Cadmium (AAS)	<0.002	<0.002	0.008	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	0.0061	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0049	<0.004	<0.004	0.0093	0.0074	<0.004
Iron	0.13	<0.005	0.23	0.0078	0.015	0.017	0.017	0.033
Lead (AAS)	0.0085	<0.004	0.016	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.3	5	.	.	6.1	5.5	5.8	6.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.1	0.1	0.0021	0.97	0.85	0.91	0.84
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0064	0.0058	0.014	0.0022	0.0065	0.012	0.01	0.0051
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	276	.	281	.	123	.	116	.
Alkalinity-CO3	<1	.	<1	.	10	.	14	.
Calcium	120	120	110	2.4	13	8.3	8.9	8.1
Chloride	12	.	13	.	37	.	37	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	0.2	.
Magnesium	18	17	16	0.61	5.5	4.8	5.3	4.6
Manganese	0.0051	<0.001	0.0078	0.0012	0.0054	0.0018	0.0042	0.0011
Nitrate-N	7	.	7.23	.	<0.2	.	<0.2	.
Potassium	1.9	2.3	1.7	<0.6	4.4	4.4	3.9	4.2
Sodium	5.9	4.7	5.1	<0.02	62	61	57	55
Sulfate	22	.	24	.	2	.	2	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-069				GW-071			
	BG				BG			
	09/20/91		12/16/91		03/24/91		06/21/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.03	0.039	<0.02	0.062	0.48	0.47	0.45	0.43
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.36	0.31	0.37	0.42	0.11	0.037	0.036	0.033
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.1	0.11	0.13	0.44	0.64	0.68	0.68	0.66
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	0.0055	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0074	<0.004	<0.004	0.0055	<0.004	<0.004	<0.004	0.0061
Iron	0.023	0.015	0.034	0.033	0.037	<0.005	0.01	0.0093
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.0083	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	6.4	6.3	6.3	6.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.8	0.75	0.86	0.87	0.38	0.12	0.11	0.11
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0088	0.022	0.015	0.011	0.0089	<0.002	0.0076	0.0056
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	122	.	117	.	163	.	215	.
Alkalinity-CO3	8	.	10	.	504	.	416	.
Calcium	9.6	8.7	9.8	9.7	12	0.67	0.6	0.51
Chloride	39	.	42	.	44	.	43	.
Fluoride	<0.1	.	0.1	.	3.8	.	5.5	.
Magnesium	5.7	5	6	5.8	0.14	0.085	0.13	0.12
Manganese	0.0038	0.0027	0.0031	0.0025	0.0021	0.0014	<0.001	0.001
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<2	.
Potassium	4.7	5	4.3	4.3	2.6	3.7	2.3	2.5
Sodium	57	57	58	62	380	350	330	330
Sulfate	2	.	2	.	30	.	35	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-072				GW-074			
	BG				OLF			
	03/19/91		06/18/91		01/30/91		05/10/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.22	0.067	0.063	<0.02	0.03	0.022	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.11	0.081	0.16	0.037	0.02	0.019	0.017	0.017
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.25	0.29	0.29	0.27	0.15	0.29	0.27	0.25
Cadmium (AAS)	<0.002	<0.002	<0.002	0.0024	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0032	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0043	<0.004	<0.004	0.0069	<0.004	<0.004	<0.004	<0.004
Iron	0.056	0.0058	0.027	<0.005	0.015	0.018	0.027	<0.005
Lead (AAS)	0.0047	<0.004	<0.004	0.0064	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Nickel	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4	4.4	4.1	4.2	0.76	4.5	4.3	4.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.005
Strontium	0.24	0.23	0.32	0.19	0.038	0.037	0.036	0.036
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0049	0.0053	<0.002	0.0033	0.0025	0.0025	<0.002	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	31	.	91	.	194	.	191	.
Alkalinity-CO ₃	176	.	116	.	72	.	74	.
Calcium	1.5	1.6	1.8	1.1	0.76	0.71	0.69	0.64
Chloride	18	.	16	.	<1	.	<1	.
Fluoride	0.3	.	0.27	.	0.3	.	0.24	.
Magnesium	0.24	0.41	0.61	0.23	0.14	0.14	0.13	0.13
Manganese	0.0033	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2.2	2.3	2	2.1	0.8	0.8	0.87	0.72
Sodium	120	120	110	110	110	120	120	120
Sulfate	12	.	12	.	8	.	7.6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-074				GW-075			
	OLF				OLF			
	08/26/91		10/21/91		01/28/91		05/10/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.035	<0.02	<0.02	<0.02	0.31	0.13	0.51	0.083
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.015	0.014	0.012	0.011	0.081	0.062	0.071	0.061
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.31	0.3	0.28	0.28	0.53	0.55	0.55	0.55
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	0.0046	0.0043	0.0047
Iron	0.032	<0.005	0.062	<0.005	0.078	0.033	0.12	0.011
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	4.6	4	5.1	4
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.043	0.042	0.037	0.035	0.12	0.097	0.11	0.1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	<0.002	0.0066	0.0063	0.0055	0.0057	0.0031	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	186	.	180	.	416	.	432	.
Alkalinity-CO ₃	72	.	74	.	70	.	82	.
Calcium	0.7	0.68	0.7	0.64	1.5	1.1	1.3	1.1
Chloride	<1	.	<1	.	5	.	6.1	.
Fluoride	0.2	.	0.3	.	5.2	.	4.82	.
Magnesium	0.16	0.15	0.14	0.12	0.4	0.33	0.39	0.34
Manganese	<0.001	<0.001	0.0011	<0.001	0.0025	0.0025	0.0032	0.0026
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.2	1.2	1.1	0.88	2	2	2.5	2.6
Sodium	120	120	130	130	230	220	240	240
Sulfate	7	.	8	.	23	.	25.6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-075				GW-076			
	OLF				OLF			
	08/27/91		10/25/91		01/26/91		05/09/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.68	0.089	0.33	0.067	0.027	<0.02	<0.02	0.028
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.078	0.069	0.076	0.031	0.38	0.35	0.38	0.37
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.6	0.59	0.76	0.54	0.064	0.071	0.019	0.067
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0065	0.014	0.0048	<0.004	<0.004	0.0051	<0.004
Iron	0.15	0.014	0.1	0.062	0.037	0.02	0.056	0.02
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	7.1	4.8	2.8	6.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.13	0.12	0.1	0.08	0.8	0.79	0.76	0.77
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.002	0.003	0.037	0.013	<0.001	0.0021	0.016	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	419	.	406	.	164	.	162	.
Alkalinity-CO3	72	.	66	.	<1	.	<1	.
Calcium	1.4	1.6	1.4	1.1	23	19	24	23
Chloride	6	.	5	.	13	.	12	.
Fluoride	5	.	4.9	.	0.3	.	0.22	.
Magnesium	0.48	0.41	0.39	0.3	9.2	9.3	9.9	8.7
Manganese	0.0026	0.0022	0.0033	<0.001	0.0026	0.002	0.0033	0.0019
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2.6	2.4	2.8	2.4	3.9	3.9	3.4	3.9
Sodium	270	270	230	230	38	39	37	37
Sulfate	24	.	25	.	6	.	6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-077				GW-078			
	BG				BG			
	02/27/91		06/05/91		02/27/91		06/05/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.085	0.033	0.18	<0.02	0.095	0.041	0.031	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	0.057	<0.05	<0.05	<0.05
Barium	0.31	0.31	0.25	0.25	0.14	0.13	0.13	0.13
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.025	0.022	0.0088	0.018	0.019	<0.004	0.015	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0023	<0.0021
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.011
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.011	0.0053	<0.004	0.0051	0.0049	0.0041
Iron	0.16	0.13	0.28	0.094	0.08	0.039	0.028	0.0066
Lead (AAS)	<0.004	<0.004	0.0053	<0.004	<0.004	<0.004	<0.004	<0.0042
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.9	9.9	1	8.4	6.6	6	6	5.9
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.013	<0.006
Strontium	0.73	0.73	0.61	0.6	0.098	0.091	0.094	0.094
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	0.022	0.0082	0.0056	0.011	0.053	0.0051	0.0068
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	148	.	132	.	135	.	133	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	43	43	34	34	44	41	35	35
Chloride	<1	.	<1	.	1	.	2	.
Fluoride	<0.1	.	0.11	.	0.1	.	0.16	.
Magnesium	8.2	8.2	8.1	7.3	5.9	5.5	6.3	6.3
Manganese	0.08	0.073	0.091	0.056	0.043	0.025	0.11	0.036
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.7	1.8	1.6	1.6	1.2	1.3	0.97	0.94
Sodium	5.9	6	5.1	5.7	4.1	4.1	3.8	3.7
Sulfate	16	.	15	.	13	.	12	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-079				GW-C80			
	BG				BG			
	02/23/91		06/04/91		02/23/91		05/24/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.051	0.035	0.055	0.027	1.5	0.046	16	0.49
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.15	0.15	0.14	0.13	0.094	0.017	0.24	0.023
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.001	<0.0003
Boron	0.0093	0.014	0.0083	0.023	0.0044	0.013	0.075	0.034
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	0.0062	0.0042	0.0033	0.0035
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0061	0.0041	0.0055	0.0044
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.022	<0.01	0.037	<0.011
Chromium	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.0089	<0.005	0.012	<0.005
Copper	0.0058	0.025	<0.004	0.0045	0.049	0.019	0.049	0.0074
Iron	0.076	0.033	0.1	0.01	2.2	0.11	17	0.51
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.031	<0.004	0.019	<0.0042
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	0.045	0.026	0.071	0.035
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.4	7.2	7.3	7.1	3.6	7.7	28	7.6
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.13	0.13	0.12	0.12	0.019	0.013	0.042	0.018
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	<0.005
Zinc	0.015	0.025	0.0046	0.0041	0.029	0.015	0.077	0.021
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	102	.	100	.	20	.	25	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	33	31	31	34	5	3.4	5.1	4.5
Chloride	<1	.	<1	.	<1	.	<1	.
Fluoride	0.1	.	<0.1	.	0.1	.	<0.1	.
Magnesium	3.8	3.5	3.7	3.7	4.9	3.5	7.1	4.3
Manganese	0.057	0.045	0.05	0.048	0.1	0.082	0.14	0.1
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.4	1.3	1	1	1.9	1.3	4.9	1.5
Sodium	4.5	4.1	3.8	4	5.6	6	6.1	6
Sulfate	7	.	8	.	13	.	16	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-080				GW-082			
	BG				BG			
	09/07/91		11/06/91		03/09/91		06/11/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	5.1	0.046	2.4	<0.02	0.24	<0.02	0.14	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.07	0.016	0.052	0.02	0.41	0.4	0.4	0.39
Beryllium	0.00045	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.027	0.026	0.028	0.031	0.004	0.0052	<0.004	<0.004
Cadmium (AAS)	0.0023	0.0022	0.011	0.0025	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	0.01	0.0032	0.0048	<0.003	<0.003	<0.003
Chromium (AAS)	0.021	<0.01	0.28	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.016	<0.01	0.028	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	0.0082	<0.005	0.0085	0.0072	<0.005	<0.005	<0.005	<0.005
Copper	0.015	0.0055	0.7	0.032	0.0051	<0.004	<0.004	0.0041
Iron	4.1	0.11	4.4	0.14	0.17	0.0053	0.094	0.01
Lead (AAS)	0.0081	<0.004	0.21	<0.004	0.0057	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.027	0.011	0.036	0.015	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	10	9.6	10	9.7
Silver	<0.006	<0.006	0.027	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.023	0.015	0.019	0.016	0.13	0.13	0.13	0.12
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
Vanadium	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.023	0.013	0.17	0.019	0.0034	<0.002	<0.002	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	35	.	33	.	173	.	187	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	4.5	3.9	5.9	4.4	63	67	66	65
Chloride	<1	.	<1	.	5	.	6	.
Fluoride	0.1	.	0.2	.	0.1	.	0.14	.
Magnesium	5.3	4.1	5.6	4.4	6.6	6.7	7.1	6.7
Manganese	0.11	0.072	0.12	0.09	0.21	0.18	0.14	0.13
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	3.1	1.5	6.7	4.2	1.4	1.3	1.2	0.94
Sodium	12	13	12	13	5.2	4.9	5	5.1
Sulfate	18	.	24	.	10	.	9	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-082				GW-083			
	BG				BG			
	09/25/91		12/21/91		03/09/91		06/11/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.035	<0.02	0.21	0.1	<0.02	<0.02	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.051	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.34	0.33	0.36	0.3	0.17	0.16	0.16	0.14
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.022	0.012	0.25	0.31	0.018	<0.004	<0.004	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0099	0.017	<0.004	0.0073	0.0081	<0.004
Iron	0.026	<0.005	0.13	0.015	0.072	0.023	0.37	0.02
Lead (AAS)	0.0071	<0.004	<0.004	<0.004	<0.004	<0.004	0.0089	0.0061
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	2.1	8.1	8.3	8.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.11	0.11	0.11	0.091	0.068	0.07	0.067	0.067
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0042	0.0032	0.02	0.044	<0.002	0.0082	0.0021	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	169	.	163	.	113	.	112	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	54	50	60	48	38	37	33	33
Chloride	4	.	4	.	2	.	2	.
Fluoride	0.2	.	0.3	.	<0.1	.	0.11	.
Magnesium	6.1	5.9	6.3	5.6	3.5	3.4	3.5	3.4
Manganese	0.11	0.064	0.12	0.055	0.063	0.057	0.14	0.037
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.3	1	1.8	0.82	0.76	0.75	<0.6	<0.6
Sodium	4.6	4.3	5.1	4.3	3.3	3.5	3.1	3.2
Sulfate	7.8	.	7.1	.	7	.	6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-083				GW-084			
	BG				OLF			
	09/14/91		12/27/91		01/22/91		05/01/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.044	<0.02	0.029	0.022	2.9	<0.02	0.92	0.027
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.15	0.31	0.17	0.15	0.18	0.15	0.17	0.16
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.019	0.021	0.036	0.014	<0.004	<0.004	0.0089	0.0057
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.011	<0.004	0.012	0.0049	<0.004	<0.004	0.0056	0.0053
Iron	0.37	0.029	0.37	0.036	2.4	0.028	1.5	0.021
Lead (AAS)	0.006	<0.004	0.0065	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	13	4.6	9.7	8.5
Silver	0.0063	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.061	0.062	0.06	0.059	0.085	0.081	0.082	0.079
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.012	0.0072	0.012	0.006	0.0058	<0.001	0.0046	0.0032
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	112	.	114	.	151	.	154	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	41	41	40	40	57	53	51	49
Chloride	2	.	2	.	<1	.	<1	.
Fluoride	0.1	.	0.2	.	<0.1	.	0.11	.
Magnesium	3.4	3.4	3.4	3.3	4.6	3.8	4.1	3.7
Manganese	0.16	0.042	0.25	0.047	0.11	0.003	0.088	<0.001
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	0.97	<0.6	0.87	1.2	1.5	0.85	0.83	<0.6
Sodium	3.2	3.3	3.4	3.3	4.9	5.6	5.1	5.2
Sulfate	6	.	6	.	8	.	8	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-084				GW-085			
	OLF				OLF			
	08/09/91		10/14/91		01/26/91		05/09/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	1.5	0.03	2.1	0.038	0.07	0.055	0.029	0.032
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.17	0.14	0.19	0.15	0.57	0.54	0.56	0.57
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.0085	<0.004	0.0084	0.046	0.013	0.015	0.0064	0.011
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0047	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0086	<0.004	<0.004	<0.004	0.011	<0.004	<0.004	<0.004
Iron	1.7	0.029	2.6	0.014	0.039	<0.004	0.0072	<0.005
Lead (AAS)	<0.004	<0.004	0.0092	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.2	5.4	.	.	7.5	6.8	7.4	7.4
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.077	0.07	0.084	0.078	0.43	0.41	0.43	0.43
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0094	<0.002	0.0093	0.0048	0.038	0.015	0.03	0.029
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	142	.	150	.	122	.	120	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	56	51	60	52	190	180	190	190
Chloride	<1	.	<1	.	5	.	6	.
Fluoride	<0.1	.	0.1	.	<0.1	.	<0.1	.
Magnesium	<5	<5	4.9	3.9	12	12	13	13
Manganese	0.12	0.0045	0.18	0.006	0.0055	0.0019	0.0017	0.0019
Nitrate-N	<0.2	.	<0.2	.	157	.	115	.
Potassium	1.1	0.69	1.2	0.72	1.7	1.8	1.8	1.7
Sodium	5.3	5	4.2	4	8.4	9.3	9.7	9.7
Sulfate	8.3	.	8	.	6	.	6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-085				GW-086			
	OLF				OLF			
	08/13/91		10/15/91		01/26/91		05/09/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.029	<0.02	0.06	0.033	6.3	0.064	11	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.6	0.59	0.66	0.67	1	0.12	0.42	0.12
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	0.0015	<0.0003	0.0011	<0.0003
Boron	0.043	0.043	0.037	0.026	<0.004	<0.004	0.016	0.024
Cadmium (AAS)	<0.002	<0.0021	<0.002	<0.002	0.0028	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.011	<0.01	<0.01	0.027	<0.01	0.044	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.016	<0.01	0.03	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	0.019	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	0.017	<0.004	0.018	<0.004
Iron	0.032	0.034	0.048	0.017	5.9	0.056	16	0.02
Lead (AAS)	<0.004	<0.0042	<0.004	<0.004	0.05	<0.004	0.014	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	0.021	<0.01	0.04	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.057	<0.05
Silicon	7.7	7.5	.	.	14	9	25	9.4
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.48	0.47	0.49	0.5	0.15	0.071	0.083	0.071
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	0.001	<0.001	0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005
Zinc	0.032	0.038	0.031	0.021	0.088	0.001	0.078	0.009
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	117	.	115	.	128	.	101	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	220	210	230	230	74	34	34	32
Chloride	5	.	7	.	1	.	1.3	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	15	14	15	15	5.8	2.6	7.1	2.5
Manganese	0.0041	0.0026	0.01	0.0066	1.3	0.0074	1.1	0.0036
Nitrate-N	124	.	161.4	.	1	.	1.3	.
Potassium	1.8	1.6	1.8	2	2.2	0.98	3.3	0.73
Sodium	9.8	9.9	10	10	6	4.8	5.2	5.2
Sulfate	5	.	6	.	8	.	8.3	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-089							
	BG							
	03/05/91		06/11/91		09/07/91		11/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.13	0.045	0.026	<0.02	0.091	<0.02	0.049	0.076
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.24	0.18	0.28	0.24	0.38	0.36	0.46	0.47
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.031	0.033	0.051	0.065	0.094	0.086	0.083	0.15
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	0.0027	<0.002	<0.002
Cadmium	0.0042	0.018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0046	0.013	<0.004	<0.004	<0.004	<0.004	0.0088	0.0061
Iron	3.1	0.011	1.2	0.011	1.5	0.56	1.6	1.1
Lead (AAS)	0.026	<0.004	0.008	<0.004	0.012	<0.004	0.009	0.0041
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.014	0.01	<0.01	<0.01	<0.01	<0.01	0.012	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.9	9.6	9.1	9.2	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	0.01	<0.006	<0.006	<0.006
Strontium	0.27	0.27	0.2	0.24	0.21	0.22	0.22	0.21
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.034	0.041	0.004	0.036	0.0086	0.0097	0.013	0.011
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	155	.	148	.	149	.	163	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	45	45	33	34	41	42	52	47
Chloride	3	.	3	.	5	.	6.3	.
Fluoride	0.2	.	0.18	.	0.2	.	0.2	.
Magnesium	9.3	9.3	9.6	9.4	11	11	13	12
Manganese	1.2	0.023	0.9	0.92	0.93	0.9	1.1	1
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2.2	2.2	2	2.1	2.5	2.1	2.6	2.3
Sodium	6.9	7	6.4	6.9	5.7	5.7	7	6.8
Sulfate	9	.	10	.	8	.	5.5	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-095							
	BG							
	03/19/91		06/18/91		09/23/91		12/16/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.059	0.12	0.03	0.026	0.034	0.066	0.026	0.021
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.029	0.018	0.025	0.025	0.029	0.015	0.03	0.028
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	1	2.2	1	1	1.1	1	1.1	0.98
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.015	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	0.0057	<0.004	<0.004	<0.004	0.021
Iron	0.033	0.051	<0.005	<0.005	0.016	0.021	0.093	0.032
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.1	4.2	3.6	4.4	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.11	0.091	0.099	0.1	0.093	0.077	0.097	0.09
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.004	0.0051	0.007	0.0072	0.014	0.017	0.01	0.013
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	229	.	221	.	254	.	214	.
Alkalinity-CO3	36	.	38	.	4	.	38	.
Calcium	1.5	1.4	1.3	1.3	1.3	1.1	1.4	1.2
Chloride	1	.	1	.	1	.	1	.
Fluoride	0.5	.	0.6	.	0.6	.	0.6	.
Magnesium	0.46	0.43	0.36	0.35	0.42	0.36	0.42	0.36
Manganese	0.0037	0.003	0.0011	0.0012	0.0024	<0.001	0.0015	<0.001
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2	2	1.9	1.9	2	1.6	2	2
Sodium	110	130	120	120	120	120	140	130
Sulfate	11	.	10	.	8	.	8	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	CW-101				GW-115			
	S3				S3			
	01/12/91		04/14/91		01/05/91		04/03/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.62	0.97	0.21	0.027	0.072	0.075	<0.02	<0.02
Antimony	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	0.077
Barium	0.66	11	2.4	7.1	0.24	0.24	0.25	0.24
Beryllium	<0.0003	<0.003	<0.0003	0.00048	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.022	0.2	0.085	0.042	0.24	0.23	0.023	0.019
Cadmium (AAS)	0.0047	0.0028	0.0043	0.0034	<0.002	<0.002	<0.002	<0.002
Cadmium	0.0039	<0.03	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.01	<0.1	<0.01	<0.01	<0.01	0.016	<0.01	<0.01
Cobalt	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.011	0.28	<0.004	0.016	<0.004	<0.004	<0.004	0.0051
Iron	0.5	<0.04	0.15	<0.005	0.34	0.35	0.36	0.024
Lead (AAS)	0.0041	<0.004	0.005	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	0.002	0.00048	0.0014	0.00055	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.012	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	1.6	7.4	6.4	6.1	8.5	9.2	10	9.4
Silver	<0.006	<0.06	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	1.1	20	6.6	15	0.1	0.11	0.12	0.11
Thorium	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.044	0.033	0.045	0.037	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0049	0.048	0.022	<0.002	<0.001	0.011	0.0061	0.0053
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	158	.	323	.	203	.	217	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	250	4500	1700	.	66	66	72	65
Chloride	35	.	28	.	3	.	3.2	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	28	490	180	390	8.5	8.5	9.7	9.1
Manganese	0.76	6.1	6.2	5.2	0.093	0.085	0.16	0.16
Nitrate-N	2510	.	1423	.	<0.2	.	<0.2	.
Potassium	1.3	19	4.6	7.7	1.2	1.2	1.4	1.6
Sodium	7.5	140	41	100	7.8	8.3	8.6	8.3
Sulfate	63	.	67	.	14	.	19.1	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-115				GW-117			
	S3				BG			
	07/01/91		10/01/91		03/25/91		06/17/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.043	0.029	<0.02	0.021	0.059	<0.02	0.057	0.026
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.24	0.24	0.24	0.24	0.047	0.04	0.05	0.039
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.05	0.024	0.019	0.057	0.41	0.37	0.41	0.42
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0032	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.023	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0043	<0.004	<0.004	0.0061	0.0066	0.0099	0.0096
Iron	0.26	0.26	0.26	0.25	6.9	0.017	5.5	0.034
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	0.027	0.034	0.031	0.034
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.039
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.7	8.6	.	.	<0.03	0.31	0.87	0.62
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.11	0.11	0.12	0.12	0.26	0.27	0.37	0.35
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0053	0.0076	0.0054	0.0056	0.0089	0.0022	0.0099	0.006
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	194	.	223	.	631	.	560	.
Alkalinity-CO3	<1	.	<1	.	78	.	108	.
Calcium	68	70	70	70	2.7	2.6	2.9	2.8
Chloride	3	.	3	.	685	.	620	.
Fluoride	0.1	.	<0.1	.	2.7	.	4	.
Magnesium	9.8	10	11	11	1.1	1.1	1.2	1.1
Manganese	0.15	0.15	0.23	0.23	0.12	0.023	0.12	0.035
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<1	.
Potassium	3	2.3	1.9	2	9.5	8.5	8.8	7.9
Sodium	8.7	8.7	9.7	9.9	740	740	710	660
Sulfate	17	.	14	.	27	.	32	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-117				GW-118			
	BG				BG			
	09/23/91		12/19/91		03/25/91		06/17/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.22	0.06	0.44	0.18	<0.02	0.032	0.042	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.031	0.023	0.014	0.013	0.65	0.63	0.33	0.28
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.37	0.35	0.38	0.34	0.31	0.34	0.4	0.37
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.014	0.011	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0043	<0.004	0.0085	<0.004	0.017	0.017	0.018	0.017
Iron	3.2	0.029	1.8	0.042	4.1	0.046	24	0.037
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	0.028	0.035	0.037	0.03	<0.01	0.013	0.012	0.015
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	1.2	0.93	0.55	0.71
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.24	0.24	0.14	0.13	2.7	2.7	2.2	2.1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	<0.002	0.011	0.0062	<0.002	0.013	0.0061	0.007
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	534	.	503	.	208	.	159	.
Alkalinity-CO3	140	.	154	.	48	.	96	.
Calcium	1.9	2	1.3	1.4	9.8	9.7	6	5.7
Chloride	572	.	713	.	3520	.	3178	.
Fluoride	4	.	3.8	.	1.2	.	1.8	.
Magnesium	0.99	1	0.85	0.85	6.4	6.4	5.7	5.6
Manganese	0.059	0.021	0.04	0.012	0.069	0.04	0.26	0.0035
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	4	.
Potassium	9.1	9.4	11	11	15	16	12	12
Sodium	680	680	700	700	1800	1800	1700	1600
Sulfate	23	.	22.3	.	1	.	<10	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-118				GW-119			
	BG				BG			
	09/23/91		12/19/91		03/25/91		06/17/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.2	<0.2	<0.2	<0.2	<0.02	0.067	0.042	0.044
Antimony	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05
Barium	0.34	0.24	<0.01	<0.01	0.11	0.094	0.095	0.079
Beryllium	<0.003	<0.003	<0.003	<0.003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.45	0.34	0.25	0.26	0.38	0.42	0.43	0.47
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.03	<0.03	<0.03	<0.03	0.0048	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.1	<0.1	<0.1	<0.1	<0.01	0.073	<0.01	<0.01
Cobalt	<0.05	<0.05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
Copper	<0.04	<0.04	<0.04	<0.04	0.011	0.013	0.014	0.011
Iron	28	<0.05	32	0.25	6.4	0.071	20	0.029
Lead (AAS)	0.014	<0.004	0.036	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002
Molybdenum	<0.1	<0.1	<0.1	<0.1	<0.01	0.023	0.021	0.021
Nickel	<0.1	<0.1	<0.1	<0.1	<0.01	0.073	<0.01	<0.01
Selenium	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	<0.03	0.36	0.85	1.6
Silver	<0.06	<0.06	<0.06	0.066	<0.006	<0.006	<0.006	<0.006
Strontium	1.9	1.6	0.23	0.21	1.2	1.2	1.1	1.1
Thorium	<2	<2	<2	<2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.05	<0.05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
Zinc	<0.02	<0.02	0.087	0.058	<0.002	0.039	0.0097	0.0052
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	132	.	<1	.	338	.	310	.
Alkalinity-CO3	128	.	230	.	82	.	120	.
Calcium	4.6	3.8	1.1	1	5.3	5.2	3.6	3.5
Chloride	1055	.	3272	.	1800	.	133	.
Fluoride	1.8	.	1.8	.	1.9	.	2.9	.
Magnesium	5.7	4.9	<0.03	<0.03	4	4.1	3.2	3.2
Manganese	0.47	<0.01	0.62	<0.01	0.12	0.022	0.23	0.013
Nitrate-N	<2.26	.	<0.2	.	<0.2	.	3	.
Potassium	20	15	29	32	12	12	6.9	7.5
Sodium	2000	2000	1900	1900	1400	1400	1100	1100
Sulfate	<10	.	<1	.	18	.	21	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-119				GW-122			
	BG				S3			
	09/23/91		12/19/91		01/12/91		04/13/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.2	<0.2	<2	<2	0.11	0.094	0.038	0.022
Antimony	<0.5	<0.5	<5	<5	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.5	<0.5	<5	<5	0.095	<0.05	<0.05	<0.05
Barium	0.097	0.089	<0.1	<0.1	8.2	7.9	8.4	8.4
Beryllium	<0.003	<0.003	<0.03	<0.03	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.44	0.41	0.43	<0.4	0.38	0.36	0.32	0.33
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.03	<0.03	<0.3	<0.3	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.1	<0.1	<1	<1	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.05	<0.05	<0.5	<0.5	<0.005	0.0061	<0.005	<0.005
Copper	<0.04	<0.04	<0.4	<0.4	0.011	0.033	<0.004	<0.004
Iron	11	0.064	2.4	<0.5	0.24	0.038	0.75	0.047
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.1	<0.1	<1	<1	<0.01	<0.01	<0.01	<0.01
Nickel	<0.1	<0.1	<1	<1	<0.01	<0.01	<0.01	<0.01
Selenium	<0.5	<0.5	<5	<5	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	8.1	7.7	7.8	7.8
Silver	<0.06	<0.06	<0.6	<0.6	<0.006	<0.006	<0.006	<0.006
Strontium	0.94	0.92	0.74	0.73	19	19	24	24
Thorium	<2	<2	<2	<2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001	0.001
Vanadium	<0.05	<0.05	<0.5	<0.5	<0.005	<0.005	<0.005	<0.005
Zinc	<0.02	<0.02	0.63	0.44	<0.001	<0.001	0.009	0.011
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	280	.	283	.	329	.	262	.
Alkalinity-CO3	148	.	152	.	<1	.	<1	.
Calcium	2.7	2.7	5.4	3.9	800	820	780	760
Chloride	682	.	1786	.	143	.	152	.
Fluoride	3	.	3	.	<0.1	.	<0.1	.
Magnesium	2.9	2.8	3.8	3.3	160	160	160	160
Manganese	0.12	0.011	<0.1	<0.1	0.18	0.17	0.18	0.17
Nitrate-N	<0.2	.	<0.2	.	667	.	210	.
Potassium	6.3	12	<6	<6	20	21	23	24
Sodium	1300	1300	1200	1200	87	92	100	100
Sulfate	13	.	6.3	.	17	.	11	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-123							
	S3							
	03/25/91		04/06/91		07/12/91		10/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.027	<0.02	<0.02	0.055	0.032	0.038	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.006	0.0024	0.014	0.0036	0.0064	0.0018	0.0019	0.0015
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.47	0.45	0.46	0.49	0.47	0.21	0.44	0.42
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0054	<0.004	<0.004	<0.004	0.0049	0.0078	<0.004	<0.004
Iron	13	0.024	2.2	<0.005	8	1.5	2.5	0.012
Lead (AAS)	<0.004	<0.004	0.0043	<0.004	0.0045	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00022	<0.0002
Molybdenum	<0.01	0.018	0.014	0.015	0.014	0.014	0.011	0.015
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	0.77	<0.03	0.37	0.42	0.57	0.18	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.071	0.05	0.1	0.073	0.067	0.044	0.039	0.032
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0033	<0.002	0.0071	<0.002	0.014	0.012	0.0035	0.0056
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	529	.	565	.	461	.	273	.
Alkalinity-CO3	316	.	298	.	346	.	420	.
Calcium	1.2	0.95	1.2	1.1	0.97	0.84	0.76	0.74
Chloride	26	.	26	.	21	.	23	.
Fluoride	6.6	.	6.8	.	6.8	.	6.2	.
Magnesium	0.34	0.29	0.43	0.38	0.35	0.42	0.12	0.16
Manganese	0.25	0.0024	0.095	0.01	0.19	0.046	0.072	0.0037
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	16	18	11	13	12	15	16	15
Sodium	400	440	450	480	430	440	420	420
Sulfate	90	.	91	.	70	.	71	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-125							
	S3							
	03/25/91		04/06/91		07/12/91		10/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.043	<0.02	<0.02	0.037	0.1	0.035	0.19	0.14
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.0024	0.0055	0.017	0.015	0.0066	0.0063	0.0077	0.0044
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.55	0.51	0.56	0.53	0.085	0.58	1.4	1.3
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0058	<0.004	0.01	0.013	0.012	0.0078	0.018	0.0061
Iron	1.2	0.012	0.91	<0.005	3.9	0.44	5.2	0.11
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	0.017	0.027	0.02	0.023	0.022	0.02	0.022	0.024
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	0.3	0.4	0.18	<0.03	0.53	0.74	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.081	0.09	0.13	0.16	0.045	0.076	0.039	0.029
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.001	0.001	<0.001	0.001	0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.003	<0.002	<0.002	<0.002	0.0074	0.0081	0.02	0.0086
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	381	.	581	.	236	.	<1	.
Alkalinity-CO3	458	.	266	.	524	.	52	.
Calcium	3	1	2.2	1.2	1.8	1	1.3	0.61
Chloride	155	.	184	.	167	.	160	.
Fluoride	2.9	.	4.1	.	5.3	.	4.2	.
Magnesium	0.18	0.37	0.48	0.67	1.1	0.61	0.51	0.52
Manganese	0.049	<0.001	0.032	0.0068	0.32	0.036	0.13	0.0012
Nitrate-N	4	.	0.8	.	0.64	.	1.06	.
Potassium	35	31	28	17	29	15	34	36
Sodium	440	450	500	550	460	490	420	440
Sulfate	76	.	96	.	69	.	64	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-162				GW-163			
	BG				BG			
	02/28/91		06/11/91		03/02/91		06/12/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.18	0.026	0.047	0.022	0.11	<0.02	0.49	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.073
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.28	0.27	0.26	0.25	0.07	0.018	0.087	0.027
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.052	0.027	0.031	0.05	0.091	0.1	0.06	0.13
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0071	<0.004
Iron	1.5	<0.005	1.4	0.01	11	0.014	14	0.09
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.0063	<0.004	0.0086	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00029	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.066	<0.05
Silicon	8.1	3	8.9	9.2	5.1	3.3	4.4	2.7
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.78	0.79	0.82	0.82	0.085	0.062	0.081	0.065
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0068	0.024	<0.002	<0.002	0.0068	0.0051	0.0085	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	125	.	116	.	145	.	136	.
Alkalinity-CO3	4	.	<1	.	14	.	20	.
Calcium	29	30	31	31	2.4	1.8	2.1	1.6
Chloride	4	.	4	.	<1	.	<1	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	0.13	.
Magnesium	4.7	5.1	4.9	5	0.22	0.16	0.2	0.12
Manganese	0.11	0.094	0.074	0.056	0.068	0.0037	0.076	0.0019
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	3	3.2	2.5	2.7	1.5	1.4	1.6	1.3
Sodium	14	14	13	13	81	73	78	81
Sulfate	9	.	10	.	15	.	16	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-164				GW-209			
	BG				EXP			
	03/05/91		06/13/91		02/23/91		06/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	<0.02	<0.02	0.22	0.023	2.5	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.17	0.17	0.17	0.17	0.062	0.095	0.065	0.036
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.03	0.051	<0.004	0.088	0.0085	0.011	0.011	0.01
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	0.0039	<0.003	<0.003	0.0037	<0.003	0.011	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	<0.01
Chromium	0.047	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	0.0065	0.0047	0.04	0.0049
Iron	0.42	0.31	0.23	0.22	0.2	<0.005	13	0.016
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.014	<0.004	0.012	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.037	<0.01	<0.01	<0.01	0.012	<0.01	0.011	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9	9.9	8	9.4	7.6	6.9	1.4	7.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.55	0.55	0.55	0.54	0.02	0.05	0.0097	0.0061
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0032	<0.002	<0.002	0.023	0.013	0.691	0.02
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	182	.	174	.	16	.	11	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	30	30	33	32	3.8	12	2.1	1.3
Chloride	1	.	1	.	<1	.	<1	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	15	15	16	15	0.92	1.3	0.89	0.63
Manganese	0.073	0.064	0.066	0.063	0.017	0.019	0.13	0.017
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2	1.7	2	2.1	3.5	3.5	4	3.2
Sodium	22	20	22	22	2.7	2.6	2.7	2.5
Sulfate	11	.	11	.	2	.	1	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-225							
	OLF							
	02/21/91		05/17/91		08/31/91		11/01/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.067	0.064	0.025	0.042	0.1	0.054	<0.02	0.039
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.23	0.23	0.3	0.25	0.22	0.22	0.19	0.2
Beryllium	<0.0003	<0.0003	0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.066	0.09	0.11	0.09	1.3	0.086	0.07	0.076
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	0.014	0.015	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0088	0.0045	0.013	<0.004	<0.004	<0.004	0.0049
Iron	0.068	0.005	0.13	0.011	0.02	0.032	0.16	0.026
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.016	0.023	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3	5.2	4.9	5.7	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.0065	<0.006
Strontium	1.2	1.2	1.4	1.3	1.3	1.3	1	1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0043	0.0042	<0.002	<0.002	0.03	0.0038	0.0037	0.0061
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	213	.	217	.	209	.	203	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	150	140	130	150	150	140	120	130
Chloride	40	.	41	.	34.7	.	40	.
Fluoride	0.2	.	<0.1	.	0.1	.	<0.1	.
Magnesium	51	50	51	50	54	50	46	47
Manganese	0.0035	0.0028	0.0076	0.0043	0.0036	0.0042	0.0037	0.0036
Nitrate-N	88	.	79	.	74.1	.	87	.
Potassium	2.6	2.5	2.5	2.5	2.8	2.2	2.4	2.6
Sodium	16	16	18	16	18	14	14	15
Sulfate	36	.	38	.	32.6	.	33	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-210				GW-211			
	EXP				EXP			
	02/23/91		06/05/91		02/26/91		06/06/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.037	0.037	0.15	<0.02	0.069	0.098	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.048	0.036	0.029	0.0045	0.011	0.015	0.0068	0.0081
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.066	0.063	0.068	0.062	0.3	0.32	0.29	0.29
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.018	0.0069	0.0045	0.0044	<0.004	0.0068	0.004
Iron	0.062	0.0088	0.13	0.0054	2.9	2.5	5.8	4.6
Lead (AAS)	<0.004	<0.004	0.018	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.2	3.5	5.2	2.5	11	11	11	11
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.28	0.21	0.21	0.027	3.2	3.4	3.4	3.4
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	2.1	0.2	5.1	0.028	0.0076	0.014	0.0053	0.0049
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	147	.	174	.	116	.	112	.
Alkalinity-CO3	4	.	8	.	<1	.	<1	.
Calcium	31	24	35	8.3	260	260	270	260
Chloride	<1	.	<1	.	1	.	<10	.
Fluoride	0.1	.	<0.1	.	0.2	.	0.24	.
Magnesium	24	23	27	23	47	49	48	47
Manganese	0.0065	0.0049	0.004	<0.001	0.042	0.042	0.044	0.043
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<2	.
Potassium	3.8	3.8	3.1	3.6	3.9	4	4	4.8
Sodium	7.1	7.3	6.5	6.8	16	16	16	17
Sulfate	38	.	42	.	1220	.	882	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-226				GW-227			
	OLF				OLF			
	02/08/91		05/13/91		02/08/91		05/12/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	3.7	0.065	2.3	<0.02	0.061	0.08	0.043	0.031
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.51	0.48	0.47	0.44	0.1	0.1	0.11	0.11
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.58	0.54	0.71	0.76	0.056	0.023	0.084	0.085
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	0.0035	<0.003	<0.003	0.0047	0.0042	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.018	<0.01	<0.01	<0.01
Cobalt	0.028	0.03	0.14	0.031	<0.005	<0.005	<0.005	<0.005
Copper	0.0069	<0.004	0.014	<0.004	0.0067	0.006	<0.004	<0.004
Iron	20	13	82	40	0.53	0.041	0.53	0.11
Lead (AAS)	0.0078	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.048	0.052	0.19	0.044	<0.01	0.013	<0.01	<0.01
Selenium	<0.05	<0.05	0.17	0.11	<0.05	<0.05	<0.05	<0.05
Silicon	11	6.6	9.3	6.2	3.5	1.5	3.8	3.8
Silver	<0.006	<0.006	0.0066	0.0073	<0.006	<0.006	<0.006	<0.006
Strontium	0.34	0.34	0.36	0.35	0.19	0.19	0.21	0.21
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.088	0.089	0.056	0.078	0.118	0.119	0.085	0.1
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.073	0.017	0.13	0.019	0.0027	0.0071	0.011	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	284	.	510	.	490	.	292	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	170	170	160	170	110	120	120	120
Chloride	69	.	109	.	18	.	20	.
Fluoride	0.1	.	<0.1	.	0.3	.	0.22	.
Magnesium	29	29	26	26	20	20	21	20
Manganese	13	12	16	16	0.097	0.082	0.19	0.19
Nitrate-N	0.7	.	<0.2	.	18	.	17	.
Potassium	6.2	5.3	6.3	5.9	2.2	1.7	2.3	2.3
Sodium	35	34	44	43	12	11	11	12
Sulfate	41	.	45.5	.	41	.	39	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-227				GW-243			
	OLF				S3			
	08/31/91		11/01/91		01/22/91		04/18/91	08/06/91
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.12	0.087	0.094	<0.02	750	730	.	790
Antimony	<0.05	<0.05	<0.05	<0.05	<5	<5	.	<5
Arsenic	<0.05	<0.05	<0.05	<0.05	<5	<5	.	<5
Barium	0.11	0.11	0.13	0.13	10	5.6	.	8.3
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	0.058	0.058	.	0.08
Boron	1.4	1.2	0.041	0.042	3.2	1.4	.	1.5
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	1.6	1.6	.	4
Cadmium	<0.003	0.0039	<0.003	<0.003	2.1	2	.	2.3
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.31	0.32	.	0.31
Chromium	<0.01	<0.01	<0.01	<0.01	<1	<1	.	<1
Cobalt	<0.005	<0.005	<0.005	<0.005	1.3	1.3	.	1.3
Copper	<0.004	<0.004	<0.004	<0.004	1.4	1.1	.	0.9
Iron	0.69	0.17	1.2	0.021	<0.4	<0.4	.	<0.5
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.0051	0.006	.	0.0075
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	0.071	0.066	.	0.0023
Molybdenum	<0.01	<0.01	<0.01	<0.01	<1	<1	.	<1
Nickel	<0.01	<0.01	<0.01	<0.01	19	18	.	20
Selenium	<0.05	<0.05	<0.05	<0.05	<5	<5	.	<5
Silicon	.	.	.	.	31	12	.	9.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.6	<0.6	.	<0.6
Strontium	0.24	0.25	0.39	0.39	12	12	.	12
Thorium	<0.2	<0.2	<0.2	<0.2	<20	<20	.	<20
Uranium (Fluor)	0.034	0.035	0.024	0.024	36.9	42.2	.	44
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	.	<0.5
Zinc	0.0086	0.018	0.0078	0.0029	3.1	3.1	.	3.3
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	275	.	258	.	<1	.	.	<1
Alkalinity-CO3	<1	.	<1	.	<1	.	.	<1
Calcium	130	120	120	120	6300	6100	.	6800
Chloride	19.7	.	29	.	442	.	.	397.1
Fluoride	0.2	.	0.12	.	0.6	.	.	0.4
Magnesium	25	25	31	31	640	630	.	680
Manganese	0.042	0.017	0.092	0.0088	200	190	.	210
Nitrate-N	20.8	.	45	.	9490	.	.	6607
Potassium	1.9	1.9	2.2	2.3	140	140	.	74
Sodium	12	12	13	13	810	810	.	900
Sulfate	28	.	28	.	665	.	.	759

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-243			GW-286				GW-287
	S3			BG				BG
	08/06/91	10/11/91		09/14/91		11/23/91		09/14/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	760	790	760	0.053	0.026	0.89	<0.02	0.15
Antimony	<5	<5	<5	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<5	<5	<5	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	10	5.3	4.7	0.28	0.27	0.31	0.29	1.6
Beryllium	2	0.066	0.046	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	5.5	0.75	1.3	0.021	0.055	0.015	0.014	0.024
Cadmium (AAS)	2.5	2.2	2.2	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	4.7	2.4	2.1	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	0.32	0.19	0.21	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	2.5	<1	<1	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	3.5	1.8	1.5	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	3.2	1.2	1.2	0.0059	<0.004	0.0047	<0.004	<0.004
Iron	1.8	<0.5	<0.5	0.054	0.016	1.1	0.013	0.15
Lead (AAS)	0.0075	0.0058	0.0076	<0.004	<0.004	0.0043	<0.004	<0.004
Mercury (CVAA)	0.002	0.11	0.1	<0.0002	<0.0002	<0.0002	<0.0002	0.0004
Molybdenum	2.3	<1	<1	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	22	19	19	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<5	<5	<5	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.6	.	.	.	.	.	.	.
Silver	1.8	<0.6	<0.6	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	14	11	11	0.092	0.089	0.099	0.092	0.086
Thorium	<20	<2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	46	40	41	<0.001	0.001	<0.001	<0.001	0.001
Vanadium	2.1	<0.5	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	5.5	3.2	3	0.013	0.0056	0.017	0.0053	0.013
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	<1	.	134	.	135	.	107
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	6500	6800	6600	50	46	56	45	42
Chloride	.	400	.	1	.	1.3	.	2
Fluoride	.	110	.	0.1	.	0.2	.	0.1
Magnesium	660	690	670	4.6	4.3	5.2	4.3	4.7
Manganese	200	210	210	0.032	0.025	0.073	0.015	0.021
Nitrate-N	.	5870	.	<0.2	.	<0.2	.	<0.2
Potassium	140	200	140	0.82	0.66	1.1	1.1	1.3
Sodium	850	870	850	4.5	4.5	4.7	4.9	3.5
Sulfate	.	1800	.	6	.	7.2	.	9

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-287			GW-290				GW-291
	BG			BG				BG
	09/14/91	11/23/91		03/21/91		06/20/91		03/24/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.34	0.022	<0.02	<0.02	0.12	0.039	0.12
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.12	0.11	0.25	0.22	0.5	0.24	0.22
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.017	0.018	0.016	0.43	0.4	0.87	0.9	2.1
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0035	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0093	0.01	0.0046	<0.004	<0.004	<0.004	0.041
Iron	0.0097	0.39	<0.005	0.042	<0.005	0.14	<0.005	0.13
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.015	0.012	0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	1.8	0.53	10	10	3.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.075	0.068	0.065	0.33	0.29	0.43	0.31	0.14
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.012	0.019	0.012	0.0071	0.0054	0.0025	0.0064	0.054
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	106	.	232	.	223	.	171
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	48	37	33	80	67	130	76	68
Chloride	.	1.7	.	4	.	4	.	6
Fluoride	.	0.1	.	0.1	.	0.2	.	<0.1
Magnesium	4.5	5.9	5.1	10	9.7	14	11	11
Manganese	0.015	0.032	0.0066	0.056	0.021	0.042	0.0067	0.013
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	0.5
Potassium	0.92	1.5	1.9	2.1	2.4	2.7	2.7	1.5
Sodium	3.7	4.2	4.2	8.7	8.7	9.8	9.4	8.6
Sulfate	.	8	.	16	.	16	.	17

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-291			GW-306				GW-307
	BG			RS				RS
	03/24/91	06/21/91		01/14/91		04/26/91		01/14/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.028	0.039	<0.02	0.13	0.045	1.1	0.032	1.2
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.16	0.18	0.14	0.044	0.043	0.036	0.037	0.07
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00033	0.00042	<0.0003
Boron	3.5	4.2	4.2	0.023	0.035	0.027	0.033	0.038
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	0.0037	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.077	0.063	0.018
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0086	0.015	0.0057	0.0083	<0.004	0.0071	0.0066	0.034
Iron	0.0084	0.031	0.0058	0.15	0.0041	1.5	0.01	1.2
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.5	8.9	9.1	4.4	4.6	5.1	4.1	5.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.12	0.13	0.13	0.16	0.17	0.13	0.13	0.24
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0066	<0.005
Zinc	0.043	0.022	0.028	0.016	0.0058	0.017	0.0085	0.056
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	185	.	296	.	276	.	319
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	58	74	73	130	130	94	91	160
Chloride	.	<5	.	17	.	<10	.	30
Fluoride	.	0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	10	11	12	16	16	15	14	15
Manganese	0.0075	0.014	0.023	0.004	0.0014	0.033	0.007	0.053
Nitrate-N	.	<2	.	11	.	7	.	12
Potassium	1.3	1.3	1.8	2.3	2.4	2.1	1.8	4.4
Sodium	7.1	9	8.9	6	6.3	3.9	3.9	9.1
Sulfate	.	13	.	41	.	21	.	98

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-307			GW-308				GW-309
	RS			RS				RS
	01/14/91	04/26/91		01/14/91		04/30/91		01/13/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.14	0.19	0.096	7.1	0.054	1.5	0.19	0.06
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.067	0.071	0.068	0.07	0.039	0.055	0.045	0.045
Beryllium	<0.0003	<0.0003	<0.0003	0.00065	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.033	0.047	0.047	0.055	0.04	0.057	0.096	0.072
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	0.0043	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	0.038	0.037	0.01	<0.01	0.016	0.016	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.02	<0.004	0.011	0.024	0.012	0.022	0.0048	0.0065
Iron	0.026	0.19	0.031	8.1	<0.004	4.3	0.072	0.012
Lead (AAS)	<0.004	<0.004	0.0049	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.012	<0.01	0.013	0.014	<0.01	0.014	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.4	3.1	3.8	8.8	4.4	6.7	4.4	3.7
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.25	0.25	0.25	0.28	0.28	0.32	0.29	0.43
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.002
Vanadium	<0.005	<0.005	0.0074	0.0068	<0.005	<0.005	<0.005	<0.005
Zinc	0.027	0.018	0.024	0.046	0.011	0.021	0.0082	0.0027
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	315	.	347	.	331	.	434
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	170	150	160	180	180	200	180	190
Chloride	.	23	.	23	.	23	.	28
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	16	15	16	16	15	17	16	22
Manganese	0.028	0.029	0.045	0.27	0.027	0.11	0.034	3.1
Nitrate-N	.	11	.	11	.	8	.	14
Potassium	3.9	3.4	3.7	5.6	3.5	3.9	3.1	4.3
Sodium	8.7	9.9	8.9	10	9.8	11	10	12
Sulfate	.	75	.	99	.	126	.	73

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-309							GW-310
	RS							RS
	01/13/91	04/25/91		08/13/91		10/23/91		01/15/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.071	<0.02	<0.02	0.051	0.039	0.037	0.038	0.14
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.045	0.043	0.048	0.041	0.041	0.037	0.037	0.068
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.068	0.071	0.074	0.065	0.054	0.063	0.086	0.15
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0082	<0.004	0.013	<0.004	0.0043	<0.004	<0.004	0.0076
Iron	<0.004	0.016	<0.005	0.013	0.0051	0.014	0.028	0.073
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.7	3.6	3.9	3.1	2.4	.	.	1.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.43	0.39	0.39	0.45	0.44	0.35	0.36	0.31
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.001	0.0067	0.016	0.0063	0.0037	0.013	0.0089	0.0061
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	411	.	396	.	394	.	232
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	190	170	180	180	180	180	180	130
Chloride	.	35	.	38	.	36	.	23
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	0.2
Magnesium	21	23	23	25	25	22	22	12
Manganese	3	3.4	3.3	3.6	3.7	2.4	2.5	0.0029
Nitrate-N	.	14.4	.	18	.	15.12	.	14
Potassium	4.3	3.7	3.7	3.6	4	3.6	3.5	3.5
Sodium	12	13	13	12	12	13	13	11
Sulfate	.	57	.	55	.	53	.	84

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-310			GW-311				GW-312
	RS			RS				RS
	01/15/91	04/30/91		01/13/91		04/26/91		01/14/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.041	0.21	0.038	0.091	0.039	0.029	<0.02	4.6
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.064	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.063	0.062	0.06	0.016	0.016	0.053	0.13	0.034
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00054	<0.0003
Boron	0.14	0.13	0.14	0.021	<0.004	0.015	0.072	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.011	<0.01	0.012	<0.01	<0.01	<0.01	0.1	0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0088	0.011	<0.004	0.023	0.03	0.0043	<0.004	0.0058
Iron	0.011	0.15	<0.005	0.072	<0.004	0.041	0.016	0.13
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0059
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.016	<0.01	0.013	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	1.5	1.9	1.6	4.5	3.8	4.6	3.8	2.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.29	0.29	0.29	0.069	0.071	0.068	0.13	0.52
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008
Zinc	0.01	0.018	0.0035	0.038	0.063	0.018	0.011	0.0023
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	231	.	193	.	203	.	<1
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	52
Calcium	120	110	140	75	80	73	69	150
Chloride	.	8	.	3	.	3	.	1
Fluoride	.	0.18	.	<0.1	.	<0.1	.	0.3
Magnesium	11	11	11	4.5	4.8	4.7	5.1	0.11
Manganese	0.0024	0.0052	<0.001	0.0053	0.004	0.0049	0.0087	0.0021
Nitrate-N	.	5	.	0.7	.	0.71	.	0.5
Potassium	3	2.5	2.6	1.8	1.6	1.3	1.4	18
Sodium	9.3	9.1	7	3.1	1.7	1.6	1.5	8.1
Sulfate	.	39	.	4	.	4	.	4

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-312			GW-313				
	RS			SPI				
	01/14/91	04/26/91		01/09/91		04/09/91		07/18/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	4.2	4.2	4	0.056	0.081	0.057	<0.02	0.11
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.088	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.032	0.029	0.032	0.021	0.021	0.02	0.02	0.025
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.005	<0.004	<0.004	0.015	0.013	0.015	0.0095	0.035
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.028	0.15	0.23	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.005	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.029
Iron	0.016	0.11	0.2	0.016	0.013	0.088	0.0092	0.096
Lead (AAS)	0.0059	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.016	0.025	<0.01	<0.01	<0.01	<0.01	<0.01	0.15
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	1.4	2.1	2.2	5.1	5	5.3	5.4	5.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.53	0.46	0.5	0.071	0.07	0.067	0.069	0.079
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (AAS)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	0.0099	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0046	0.0046	0.016	0.0041	0.0044	0.013	0.017	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	<1	.	283	.	303	.	299
Alkalinity-CO3	.	70	.	<1	.	<1	.	<1
Calcium	150	150	160	84	83	93	94	78
Chloride	.	1	.	2	.	2	.	2
Fluoride	.	0.2	.	<0.1	.	<0.1	.	<0.1
Magnesium	0.032	0.12	0.17	18	18	21	22	22
Manganese	<0.001	0.0044	0.0015	<0.001	<0.001	0.0047	<0.001	0.0041
Nitrate-N	.	2	.	1.5	.	0.7	.	1.62
Potassium	18	12	13	1.2	1.3	1.1	1.1	1.4
Sodium	7.9	7.6	9.2	1.1	1.2	0.96	0.97	3.3
Sulfate	.	4	.	2	.	2	.	3.32

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-313			GW-314				
	SPI			SPI				
	07/18/91	10/05/91		01/08/91		04/08/91		07/20/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.048	0.082	<0.02	0.028	0.056	0.062	0.035	0.026
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.024	0.024	0.026	0.035	0.034	0.03	0.03	0.046
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.038	0.033	0.041	0.018	0.015	<0.004	<0.004	0.013
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	0.0042	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.027	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.021	<0.004	0.0069	<0.004	0.0052	<0.004	<0.004	<0.004
Iron	<0.005	0.13	0.035	0.0043	<0.004	0.02	<0.005	<0.005
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.12	<0.01	<0.01	<0.01	<0.01	0.025	0.012	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.5	.	.	4.9	4.7	4.5	4.5	4.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.08	0.083	0.085	0.093	0.091	0.06	0.061	0.14
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.02	0.0095	0.0076	0.0055	0.0045	<0.002	<0.002	<0.002
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	346	.	252	.	266	.	243
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	78	110	110	78	77	67	67	100
Chloride	.	2	.	2	.	2	.	8
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	22	22	22	14	14	19	19	16
Manganese	<0.001	0.0055	0.0017	0.012	0.013	0.014	0.013	0.028
Nitrate-N	.	2	.	3.1	.	0.99	.	18
Potassium	1.2	1.3	2	1.7	1.5	1.2	1.2	2.3
Sodium	1.3	1.3	3	1.9	1.7	0.55	0.5	5
Sulfate	.	3	.	3	.	3	.	20

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-314			GW-315				
	SPI			SPI				
	07/20/91	10/05/91		01/08/91		04/08/91		07/20/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.048	<0.02	0.039	0.05	0.05	<0.02	0.031	0.033
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.074	<0.05
Barium	0.049	0.037	0.037	0.034	0.033	0.035	0.034	0.057
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	<0.004	0.96	0.017	0.025	<0.004	<0.004	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.01	0.014	0.017	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0084	<0.004	<0.004	<0.004	0.011	<0.004	<0.004	0.0072
Iron	0.025	0.046	0.064	0.0085	0.02	<0.005	<0.005	0.0055
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	0.016	0.018	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.1	.	.	4.7	5.7	4.3	4.4	4.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.14	0.076	0.075	0.09	0.089	0.097	0.097	0.19
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0021	0.01	0.0053	0.0079	0.0073	<0.002	<0.002	0.003
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	296	.	238	.	242	.	225
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	110	87	86	75	75	76	75	120
Chloride	.	3	.	2	.	3	.	<10
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	17	21	21	13	13	13	13	13
Manganese	0.028	0.026	0.025	<0.001	<0.001	<0.001	<0.001	0.0019
Nitrate-N	.	4	.	3	.	6	.	22.4
Potassium	2.2	1.1	1.1	1.9	1.5	1.6	1.8	3.3
Sodium	5.3	2	3.5	1.9	1.6	1.2	1.1	7
Sulfate	.	4	.	3	.	10	.	25.3

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-315			GW-316				
	SPI			SPI				
	07/20/91	10/05/91		01/08/91		04/08/91		07/18/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.047	0.076	0.12	0.19	0.05	0.13	0.035	0.21
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.057	0.061	0.062	0.014	0.015	0.013	0.015	0.015
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.031	1.1	1.1	0.016	0.026	<0.004	<0.004	0.028
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.0096	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0045	<0.004	0.0065	0.0063	<0.004	<0.004	<0.004	0.027
Iron	<0.005	0.018	0.028	0.15	0.024	0.16	<0.005	0.22
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	0.11
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.1	.	.	4.7	4.7	4.1	4.1	5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.19	0.2	0.2	0.026	0.026	0.024	0.032	0.028
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0074	0.0077	0.026	0.013	0.0097	<0.002	0.031
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	232	.	190	.	188	.	184
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	120	120	120	38	38	37	39	42
Chloride	.	11	.	2	.	2	.	1
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	0.2
Magnesium	12	14	14	20	19	20	21	24
Manganese	0.0019	0.0025	0.0024	0.016	0.0088	0.0081	0.0038	0.0079
Nitrate-N	.	34	.	0.6	.	0.5	.	0.43
Potassium	3.6	3.1	2.7	1.7	2	1.6	2.3	1.9
Sodium	7.1	9.6	9.8	1.6	1.8	0.69	0.32	1.7
Sulfate	.	17	.	2	.	3	.	4

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-316			GW-317				
	SPI			SPI				
	07/18/91	10/05/91		01/06/91		04/06/91		07/10/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.023	0.14	0.034	0.045	0.054	<0.02	<0.02	0.099
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.014	0.012	0.016	0.02	0.024	0.017	0.019	0.022
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.023	0.019	0.068	0.064	0.021	0.074	0.039
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0069	<0.004	<0.004	<0.004	0.0056	0.0087
Iron	<0.005	0.18	0.07	0.023	0.0044	0.015	<0.005	0.12
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4	.	.	4.7	3.5	4.5	3.9	4.4
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.027	0.023	0.029	0.041	0.04	0.037	0.034	0.041
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.02	0.017	0.021	0.005	0.0089	0.0038	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	191	.	204	.	208	.	198
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	34	42	44	42	43	43	43	44
Chloride	.	1	.	1	.	<1	.	<1
Fluoride	.	0.1	.	<0.1	.	0.1	.	0.1
Magnesium	21	21	23	20	21	20	21	20
Manganese	0.0018	0.0069	0.0049	<0.001	0.0013	<0.001	<0.001	0.0039
Nitrate-N	.	0.4	.	0.3	.	0.2	.	<0.2
Potassium	2	1.4	2.8	1	0.9	1	0.76	0.75
Sodium	0.63	2.6	4.1	7.2	3.2	5.7	2	2.9
Sulfate	.	3	.	7	.	5	.	9

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-317			GW-323				
	SPI			SPI				
	07/10/91	10/03/91		01/06/91		04/04/91		07/03/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.039	<0.02	<0.02	0.069	0.039	<0.02	0.03	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	0.052	<0.05	<0.05
Barium	0.031	0.021	0.024	0.32	0.3	0.32	0.3	0.36
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.047	0.0083	0.045	0.066	0.051	0.013	0.016	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.0054	0.018	0.067	0.11	0.0053	0.04	0.0089	0.009
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.005	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.019	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.6	.	.	2.6	3.9	3.8	3.9	4.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.04	0.034	0.034	0.034	0.034	0.018	0.02	0.019
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0095	0.0044	<0.002	0.005	0.0051	0.0097	0.0057	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	203	.	212	.	213	.	197
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	41	45	44	39	38	38	39	34
Chloride	.	<1	.	1	.	1	.	<1
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	20	20	20	24	24	24	25	24
Manganese	0.0023	<0.001	<0.001	0.011	0.0055	<0.001	<0.001	<0.001
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.74	0.83	0.71	1.1	1.1	0.99	1	<0.6
Sodium	2.8	3.9	3.9	0.98	1.1	0.73	0.75	0.57
Sulfate	.	5	.	2	.	2	.	2

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-323			GW-324				GW-325
	SPI			S3				S3
	07/03/91	10/03/91		01/05/91		04/03/91		01/05/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	<0.02	<0.02	0.039	0.026	<0.02	0.96
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.35	0.37	0.37	0.19	0.19	0.19	0.19	0.095
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.0041	0.011	0.0066	0.035	0.38	0.018	0.015	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.017
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0087
Iron	<0.005	0.09	0.064	0.07	0.069	0.075	0.055	0.88
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0065
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.031
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.8	.	.	9.1	7.6	7.5	7.5	6.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.019	0.02	0.02	0.23	0.23	0.23	0.23	0.021
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0036	<0.002	0.0012	0.0014	0.0056	0.0056	0.03
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	206	.	100	.	100	.	9
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	34	41	41	27	28	28	28	3.2
Chloride	.	1	.	1	.	1	.	2
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	25	25	25	5.2	5.2	5.1	5.2	1.1
Manganese	<0.001	<0.001	<0.001	0.015	0.015	0.011	0.016	0.081
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.1	0.96	0.8	0.79	0.94	0.96	0.96	0.66
Sodium	0.61	0.81	0.8	4.6	5	4.7	4.7	1.3
Sulfate	.	2	.	6	.	8.9	.	3

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-325			GW-342				
	S3			BG				
	01/05/91	04/04/91		03/06/91		06/13/91		09/05/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.029	<0.02	1.2	0.11	6.8	0.71	3.9
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.091	0.11	0.14	0.23	0.18	0.34	0.12	0.34
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0009	<0.0003	0.0009
Boron	0.014	0.028	0.0099	0.0092	0.011	0.05	0.033	0.057
Cadmium (AAS)	<0.002	<0.002	<0.002	0.0024	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0032	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0043	<0.004	<0.004	0.018	0.019	0.0052
Iron	0.0092	0.12	0.096	3	1.5	6.4	1.2	5.7
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.011	<0.004	0.013
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00021	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.032	<0.01	<0.01	<0.01	0.015	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.8	3.8	4.3	13	11	20	11	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.03	0.015	0.018	0.034	0.031	0.067	0.043	0.069
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.03	0.081	0.17	0.021	0.0033	0.029	0.013	0.029
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	8	.	35	.	36	.	34
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	3.2	2.6	2.7	4.8	4.2	8.1	5.2	8.5
Chloride	.	2	.	<1	.	1	.	<1
Fluoride	.	<0.1	.	0.2	.	0.23	.	0.2
Magnesium	1	1	1.2	6	5.5	10	6.1	11
Manganese	0.07	0.024	0.032	0.3	0.28	0.54	0.32	0.53
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	<0.6	<0.6	1.9	1.9	2.3	2.1	2.3
Sodium	1.4	1.5	2.3	5.6	5.1	7.3	8.8	8.5
Sulfate	.	8	.	9	.	18	.	9

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-342			GW-343				
	BG			BG				
	09/05/91	11/05/91		03/07/91		06/14/91		09/05/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.31	0.85	0.024	<0.02	<0.02	0.034	<0.02	0.04
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.14	0.31	0.14	0.19	0.15	0.16	0.12	0.15
Beryllium	<0.0003	0.00077	<0.0003	0.00039	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.017	0.02	<0.004	0.015	0.051	0.054	0.048
Cadmium (AAS)	<0.002	<0.002	<0.002	0.0045	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.017	0.0064	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.017	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0055	<0.004	0.01	0.0089	<0.004	0.0061	<0.004
Iron	0.52	3.3	0.45	7.5	0.012	5.6	0.013	3
Lead (AAS)	<0.004	0.011	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	2.6	11	13	12	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.036	0.053	0.033	0.059	0.059	0.061	0.06	0.056
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.002	<0.001	0.001	0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0033	0.024	0.012	0.028	0.0055	0.016	0.0044	0.015
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	41	.	142	.	126	.	132
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	5	7.6	5.1	31	31	32	32	35
Chloride	.	<1	.	2	.	2	.	2
Fluoride	.	0.2	.	<0.1	.	0.11	.	0.1
Magnesium	6.9	9.9	7	11	11	11	10	11
Manganese	0.3	0.51	0.24	0.06	0.048	0.058	0.04	0.062
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	2.3	2.1	1.9	3.2	3.3	3	2.9	3.1
Sodium	8.7	6.8	6.6	6.7	7.4	6.7	6.6	6.8
Sulfate	.	14	.	4	.	5	.	5

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-343			GW-344				
	BG			BG				
	09/05/91	11/07/91		03/09/91		06/15/91		09/08/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.21	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.14	0.41	0.053	0.19	0.19	0.19	0.18	0.18
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.0054	0.015	0.033	0.038	0.02	0.023	0.051
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0079	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.0067	110	0.18	1.9	0.21	0.92	0.38	0.95
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	11	11	1.6	11	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.058	0.065	0.051	1.7	1.7	1.8	1.8	1.6
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.05	0.0071	0.0031	<0.002	<0.002	<0.002	0.017
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	142	.	142	.	139	.	135
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	37	30	29	30	30	35	32	30
Chloride	.	2	.	<1	.	<1	.	<1
Fluoride	.	<0.1	.	<0.1	.	0.1	.	<0.1
Magnesium	12	9.8	9.8	10	10	11	10	10
Manganese	0.055	0.37	0.0081	0.09	0.077	0.079	0.071	0.075
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	3.5	3.4	3.4	3.2	2.7	2.7	2.9	2.4
Sodium	6.7	7.1	7.3	16	15	13	13	12
Sulfate	.	5	.	14	.	15	.	14

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-344			GW-345				GW-347
	BG			S3				S3
	09/08/91	11/07/91		01/16/91		04/14/91		04/04/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.025	<0.02	<0.02	0.089	0.037	0.13	<0.02	0.37
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.17	0.18	0.18	0.3	0.22	0.26	0.35	0.015
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.042	0.048	0.042	0.012	<0.004	0.053	0.04	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0082	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	0.0059	<0.004	0.0088	0.011	0.0079
Iron	0.19	0.87	0.29	0.11	0.018	0.11	0.008	0.71
Lead (AAS)	<0.004	<0.004	<0.004	<0.0004	<0.004	<0.004	<0.004	0.0062
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.016	<0.01	<0.01	0.012	0.017	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	7.7	6	7.9	8.3	3.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	1.6	1.5	1.5	0.19	0.13	0.17	0.24	0.031
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0054	0.016	0.0065	0.0078	0.0077	0.019	0.019	0.0082
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	140	.	46	.	30	.	86
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	29	32	31	45	29	39	78	27
Chloride	.	<1	.	10	.	7	.	<1
Fluoride	.	0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	9.4	10	9.9	8.9	6.4	7.7	11	2.4
Manganese	0.068	0.075	0.07	0.083	0.064	0.059	0.072	0.009
Nitrate-N	.	<0.2	.	139	.	30	.	<0.2
Potassium	2.6	3.1	3.3	6.1	6.7	5.6	4.9	3.9
Sodium	13	14	14	12	11	10	11	1
Sulfate	.	16	.	17	.	11	.	2

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-347					GW-348		
	S3					S3		
	04/04/91	07/02/91		10/02/91		04/04/91		07/02/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.96	<0.02	0.84	<0.02	0.12	0.038	0.027
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.018	0.017	0.024	0.032	0.038	0.078	0.076	0.08
Beryllium	<0.0003	<0.0003	<0.0003	0.00038	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	<0.004	<0.004	0.0098	0.02	0.013	0.012	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.018	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.01	<0.004	0.02	<0.004	<0.004	<0.004	0.0059
Iron	<0.005	1.2	<0.005	2.3	<0.005	0.096	0.0053	0.056
Lead (AAS)	<0.004	0.0072	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.049
Nickel	0.015	<0.01	<0.01	0.012	0.012	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.2	4.2	2.7	.	.	4.8	4.5	4.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.032	0.025	0.03	0.062	0.11	0.088	0.087	0.088
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	0.001	0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.012	0.0028	0.024	0.0034	0.0078	0.0071	0.0046
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	87	.	105	.	217	.	216
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	29	26	31	54	77	76	75	79
Chloride	.	<1	.	<1	.	8	.	8
Fluoride	.	0.2	.	0.2	.	<0.1	.	0.1
Magnesium	2.4	2.3	2.4	3.9	7.5	16	16	17
Manganese	<0.001	0.024	0.0036	0.058	0.0096	<0.001	<0.001	<0.001
Nitrate-N	.	<0.2	.	<0.2	.	14	.	11
Potassium	3.7	4.3	4.1	4.3	6	1.5	1.3	1.7
Sodium	1	0.83	0.88	1.2	2.8	2.2	2.1	2.5
Sulfate	.	1	.	3	.	6	.	5

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-348			GW-364				
	S3			OLF				
	07/02/91	10/02/91		02/07/91		05/12/91		08/28/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.073	0.078	24	0.042	13	0.09	6.1
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	0.071	<0.05	<0.05	<0.05	<0.05
Barium	0.079	0.08	0.081	0.37	0.12	0.27	0.12	0.2
Beryllium	<0.0003	<0.0003	<0.0003	0.0013	<0.0003	0.0011	<0.0003	0.00047
Boron	<0.004	0.027	0.22	0.11	0.11	0.12	0.14	0.12
Cadmium (AAS)	<0.002	<0.002	<0.002	0.0049	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.0054	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	0.034	<0.01	0.049	0.012	0.021
Chromium	<0.01	<0.01	<0.01	0.029	<0.01	0.03	<0.01	0.015
Cobalt	<0.005	<0.005	<0.005	0.017	<0.005	0.011	<0.005	0.0062
Copper	0.0042	<0.004	<0.004	0.068	0.0095	0.022	0.0067	0.0067
Iron	<0.005	0.058	0.013	31	<0.005	19	0.047	5.8
Lead (AAS)	<0.004	<0.004	<0.004	0.021	<0.004	0.023	<0.004	0.012
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.076	0.014	0.053	0.024	0.027
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	0.062	<0.05	<0.05
Silicon	3.7	.	.	8.6	6.2	22	6.5	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.087	0.097	0.096	0.53	0.5	0.51	0.53	0.52
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.002
Vanadium	<0.005	<0.005	<0.005	0.034	<0.005	0.024	<0.005	0.0099
Zinc	0.0036	0.0033	0.0049	0.17	0.0034	0.077	0.019	0.037
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	229	.	228	.	233	.	230
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	79	80	76	96	76	99	85	96
Chloride	.	8	.	32	.	42	.	37
Fluoride	.	0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	17	17	16	22	18	20	18	19
Manganese	<0.001	<0.001	<0.001	1.6	0.0019	1	0.0046	0.4
Nitrate-N	.	4	.	0.5	.	0.65	.	1.5
Potassium	1.6	1.3	1.2	7.1	3	5.2	2.7	3.3
Sodium	2.2	2.6	3	8.5	11	6.6	10	6.7
Sulfate	.	4	.	32	.	34	.	32

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-364			GW-365				
	OLF			OLF				
	08/28/91	10/28/91		02/09/91		05/14/91		08/28/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.35	0.028	0.084	0.057	0.025	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.14	0.14	0.32	0.33	0.3	0.32	0.3
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.12	0.14	0.13	0.2	0.1	0.26	0.19	0.19
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0031	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0084	<0.004	<0.004	<0.004	0.0075	<0.004
Iron	<0.005	0.43	0.025	1.7	1.5	1.3	1.5	1.1
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.015	0.018	0.012	0.03	0.035	0.026	0.03	0.027
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	3.2	2.7	7.4	7.5	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.53	0.51	0.52	0.75	0.77	0.79	0.82	0.77
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0066	0.016	0.011	<0.002	<0.002	0.0066	0.0082	0.0041
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	239	.	218	.	318	.	312
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	94	95	92	130	130	130	130	130
Chloride	.	45	.	62	.	75	.	17
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	19	19	19	25	25	24	24	25
Manganese	0.0087	0.1	0.011	0.085	0.092	0.074	0.077	0.071
Nitrate-N	.	0.44	.	<0.2	.	<0.2	.	<0.2
Potassium	2.2	2.8	2.8	3.4	3.3	3.6	3.5	2.9
Sodium	7	7.3	7.7	13	13	13	14	12
Sulfate	.	35	.	53	.	52	.	51

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-365			GW-366				
	OLF			OLF				
	08/28/91	10/29/91		02/01/91		05/11/91		08/27/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.025	0.02	1	<0.02	6	0.03	0.37
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.3	0.32	0.33	0.14	0.1	0.16	0.14	0.026
Beryllium	<0.0003	<0.0003	<0.0003	0.00068	<0.0003	0.00048	<0.0003	<0.0003
Boron	0.18	0.18	0.19	0.024	0.027	<0.004	0.0052	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	0.012	<0.01	0.016	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	0.0052	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	0.058	<0.004	0.0098	<0.004	<0.004
Iron	1.1	1.3	1.3	0.41	<0.004	4	<0.005	0.16
Lead (AAS)	<0.004	<0.004	<0.004	0.017	<0.004	0.01	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	0.00026	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.022	0.022	0.025	<0.01	<0.01	0.011	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	6.9	5.8	16	6.2	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.76	0.76	0.76	0.074	0.06	0.075	0.07	0.046
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005
Zinc	0.005	0.0086	0.0071	0.3	0.026	0.18	0.038	0.0026
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	315	.	276	.	274	.	279
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	140	130	130	73	63	64	61	23
Chloride	.	61	.	2	.	2	.	2
Fluoride	.	<0.1	.	0.2	.	0.29	.	0.3
Magnesium	25	25	26	35	32	30	29	33
Manganese	0.071	0.079	0.08	0.099	<0.001	0.1	<0.001	0.0032
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	2.9	3.5	3.4	1.8	1.4	2.8	1.8	1.6
Sodium	12	14	14	2.7	1.6	1.3	1.3	1.4
Sulfate	.	49	.	4	.	3	.	3

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-366			GW-367				GW-369
	OLF			OLF				OLF
	08/27/91	10/25/91		02/02/91		05/11/91		02/10/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.087	0.036	<0.02	<0.02	<0.02	0.027	0.18
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.028	0.13	0.094	0.066	0.065	0.068	0.069	0.081
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.026	0.025	0.016	0.031	0.033	0.0063	0.036
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0053	0.0045	<0.004	<0.004	0.0043	<0.004	<0.004
Iron	<0.005	0.37	0.083	<0.004	<0.004	0.093	<0.005	0.23
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.01
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	3.4	3.3	3.6	3.7	0.9
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	0.13	<0.006	<0.006
Strontium	0.047	0.065	0.054	0.1	0.1	0.1	0.1	0.35
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	<0.001	0.004	0.005	0.005	0.004	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.053	0.0082	0.0044	0.0073	0.0021	<0.002	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	291	.	163	.	167	.	145
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	43	61	41	39	38	33	43	67
Chloride	.	2	.	3	.	4	.	18
Fluoride	.	0.3	.	0.1	.	0.13	.	0.2
Magnesium	34	32	19	18	18	17	18	37
Manganese	<0.001	0.019	0.016	0.0021	0.0014	0.0016	<0.001	0.0048
Nitrate-N	.	<0.2	.	3	.	4	.	8
Potassium	1.8	1.8	1.3	1.1	1.1	1.6	1.5	4.4
Sodium	1.3	2.4	1.5	2.6	2.8	2.5	2.3	7.5
Sulfate	.	4	.	7	.	8	.	43

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-369			GW-370				
	OLF			BG				
	02/10/91	05/15/91		02/28/91		06/10/91		09/09/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.026	0.054	0.029	2.7	0.36	1.6	0.18	2
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.079	0.085	0.079	0.21	0.066	0.078	0.054	0.071
Beryllium	<0.0003	<0.0003	<0.0003	0.00067	<0.0003	0.00039	<0.0003	0.00058
Boron	0.042	0.044	0.065	0.011	0.0097	0.045	0.96	0.019
Cadmium (AAS)	<0.002	<0.002	0.0037	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0032	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	0.029	0.0046	0.028	<0.004	0.0061
Iron	<0.005	0.51	0.0062	5.2	0.62	2.1	0.14	2
Lead (AAS)	<0.004	<0.004	<0.004	0.028	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00025	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6	4.6	4.5	15	11	11	10	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.39	0.57	0.49	0.074	0.056	0.069	0.062	0.058
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	0.001	0.003	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0093	0.0066	0.038	0.014	0.03	<0.002	0.013
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	166	.	90	.	102	.	99
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	42	110	60	32	31	37	33	32
Chloride	.	26	.	1	.	1	.	1
Fluoride	.	0.2	.	<0.1	.	0.11	.	0.1
Magnesium	32	31	29	4.1	3.3	3.9	3.2	3.7
Manganese	0.001	0.0026	<0.001	0.24	0.015	0.055	0.0078	0.047
Nitrate-N	.	15	.	<0.2	.	<0.2	.	<0.2
Potassium	4.5	2.9	5.2	1.7	0.64	1.2	<0.6	1.1
Sodium	7.2	12	9.5	12	12	10	12	10
Sulfate	.	32	.	16	.	14	.	14

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-370			GW-371				GW-372
	BG			BG				BG
	09/09/91	11/14/91		09/09/91		11/14/91		02/22/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.15	0.028	0.12	<0.02	0.027	<0.02	0.12
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.057	0.063	0.06	0.14	0.14	0.14	0.13	0.07
Beryllium	0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00034	<0.0003
Boron	0.017	0.005	0.0061	0.049	0.054	0.061	0.044	0.012
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0035
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.012
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0043	0.01
Iron	0.011	0.14	0.037	3.7	0.086	3.4	1	0.41
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.01	0.011
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	.	.	.	7
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.059	0.064	0.062	1.6	1.6	1.5	1.5	0.17
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0081	0.011	0.0078	0.0054	0.0065	0.0062	0.15	0.0032
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	112	.	286	.	292	.	167
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	35	40	40	77	74	76	76	62
Chloride	.	1.2	.	1	.	1.1	.	2
Fluoride	.	0.3	.	<0.1	.	0.1	.	0.2
Magnesium	3.6	4	3.9	21	21	20	21	11
Manganese	0.0012	0.0026	0.0018	0.033	0.023	0.038	0.032	0.06
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	<0.6	0.67	3.7	3.2	2.6	3.1	1.7
Sodium	9	8.2	8.5	18	16	20	16	9.1
Sulfate	.	10.6	.	16	.	16.6	.	36

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-372							GW-373
	BG							BG
	02/22/91	05/23/91		09/04/91		11/02/91		02/22/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.065	1.6	0.033	1.3	<0.02	0.34	0.028	0.027
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.066	0.083	0.072	0.11	0.11	0.17	0.15	0.044
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.026	0.026	0.028	0.031	0.029	0.033	0.027	0.15
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0031
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
Chromium	0.018	0.013	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.006	0.017	0.0088	0.012	0.0045	0.0089	0.0046	0.0092
Iron	0.016	1.9	0.012	2.1	0.0066	1.3	0.038	0.25
Lead (AAS)	<0.004	<0.004	<0.004	0.0075	<0.004	0.0061	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.017	<0.01	0.017	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6.9	9.5	6.7	.	.	.	.	3.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.17	0.21	0.3	0.24	0.31	0.25	0.31	0.06
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0021	0.012	0.0049	0.017	0.0096	0.018	0.0093	0.0057
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	184	.	181	.	182	.	176
Alkalinity-CO3	.	<1	.	<1	.	<1	.	30
Calcium	61	62	53	60	64	61	62	1.2
Chloride	.	2	.	2	.	2.4	.	1
Fluoride	.	0.11	.	0.2	.	0.1	.	1.2
Magnesium	11	11	10	11	11	11	11	0.11
Manganese	0.039	0.065	0.034	0.086	0.053	0.074	0.012	0.0021
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.8	2.1	1.9	1.8	1.8	2.3	2.4	0.97
Sodium	9.6	9.4	9.3	9	8.7	9.6	10	110
Sulfate	.	35	.	33	.	36.4	.	30

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-373							GW-520
	BG							OLF
	02/22/91	05/23/91		09/04/91		11/02/91		03/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.35	0.049	0.23	<0.02	0.071	0.022	0.27
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.039	0.051	0.04	0.069	0.024	0.035	0.03	0.074
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.15	0.2	0.21	0.17	0.17	0.16	0.16	0.013
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.004
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0079	0.017	<0.004	0.017	<0.004	<0.004	<0.004	0.014
Iron	0.085	1.7	0.2	2.7	0.013	0.3	0.052	0.89
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.057
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.3	4.3	3.7	.	.	.	.	3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.06	0.067	0.065	0.075	0.058	0.054	0.053	0.11
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0058	0.0084	0.005	0.011	0.0042	0.0096	0.0049	0.019
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	182	.	185	.	180	.	<1
Alkalinity-CO ₃	.	30	.	26	.	28	.	<1
Calcium	1.3	1.4	1.3	1.7	1.3	1.2	1.1	28
Chloride	.	1	.	1	.	1.2	.	65
Fluoride	.	1.08	.	1.5	.	1.5	.	0.2
Magnesium	0.12	0.18	0.1	0.2	0.12	0.13	0.11	2.6
Manganese	<0.001	0.0098	0.0025	0.022	0.0011	0.0042	0.0014	0.038
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.96	0.97	0.88	1.1	0.89	1.1	1.2	8.5
Sodium	110	100	100	100	100	110	100	13
Sulfate	.	16	.	33	.	31.8	.	6

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-520							GW-526
	OLF							S3
	03/25/91	05/12/91		08/27/91		10/24/91		01/16/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.36	0.42	0.43	0.48	0.5	0.41	0.44	0.048
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	0.083	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.067	0.08	0.077	0.083	0.077	0.065	0.06	7.8
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.013	0.027	<0.004	0.0041	0.014	0.019	0.2
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0041	0.006	0.0091	0.0046	0.0045	0.0057	0.0097	0.038
Iron	0.0067	0.19	0.013	0.14	<0.005	0.098	0.0071	0.7
Lead (AAS)	<0.004	0.0086	<0.004	0.0051	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.079
Silicon	4.2	5.6	6.2	.	.	.	.	2.4
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.19	0.21	0.24	0.25	0.24	0.2	0.18	10
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	0.0071	0.0055	<0.005	<0.005	0.0065	0.0058	<0.005
Zinc	0.0028	0.018	0.018	0.0052	0.0033	0.012	0.013	<0.001
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	<1	.	<1	.	<1	.	57
Alkalinity-CO3	.	40	.	30	.	32	.	<1
Calcium	42	57	60	71	68	54	52	84
Chloride	.	70	.	55	.	9	.	13
Fluoride	.	0.24	.	0.2	.	0.2	.	<0.1
Magnesium	0.094	0.33	0.037	0.13	0.029	0.15	0.045	32
Manganese	<0.001	0.0062	<0.001	0.0026	<0.001	0.0022	<0.001	0.017
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	1390
Potassium	9.2	8.6	10	11	11	9	9.6	13
Sodium	15	13	17	18	18	16	16	1300
Sulfate	.	8	.	<10	.	8	.	<10

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-526							GW-531
	S3							OLF
	01/16/91	04/13/91		08/02/91		10/06/91		03/26/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.035	0.024	<0.2	<0.2	<0.2	<0.2	26
Antimony	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.05
Barium	7.8	7.9	8.1	9	9.1	0.95	9.1	0.33
Beryllium	<0.0003	<0.0003	<0.0003	<0.003	0.0068	<0.003	<0.003	0.0019
Boron	0.21	0.21	0.24	0.26	0.3	<0.04	0.72	0.016
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.03	<0.03	<0.03	<0.03	0.0037
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.046
Chromium	0.015	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.043
Cobalt	<0.005	<0.005	<0.005	<0.05	<0.05	<0.05	<0.05	0.018
Copper	0.042	<0.004	<0.004	<0.04	0.092	<0.04	<0.04	0.032
Iron	<0.004	0.85	0.0057	1.5	<0.05	0.35	0.071	32
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.066
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.01
Nickel	0.011	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.047
Selenium	0.065	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.05
Silicon	2.4	3.3	3.3	3.4	4	.	.	52
Silver	<0.006	<0.006	<0.006	<0.06	<0.06	<0.06	<0.06	<0.006
Strontium	10	11	11	12	12	1.1	11	0.059
Thorium	<0.2	<0.2	<0.2	<2	<2	<2	<2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004
Vanadium	<0.005	<0.005	<0.005	<0.05	<0.05	<0.05	<0.05	0.026
Zinc	<0.001	0.0062	0.0023	0.051	0.09	0.034	0.056	0.11
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	53	.	53	.	56	.	24
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	85	84	95	95	97	11	100	13
Chloride	.	14	.	<50	.	<5	.	1.03
Fluoride	.	<0.1	.	0.1	.	0.1	.	<0.1
Magnesium	33	33	36	38	38	4.1	39	8.8
Manganese	0.016	0.018	0.019	0.022	0.025	<0.01	0.044	2.5
Nitrate-N	.	258	.	837	.	657	.	<0.2
Potassium	13	14	13	13	16	<6	17	4.1
Sodium	1200	1200	1200	1400	1500	130	1300	5.7
Sulfate	.	6	.	<50	.	3	.	3.53

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-531			GW-532				GW-533
	OLF			OLF				OLF
	03/26/91	06/24/91		03/26/91		06/24/91		03/26/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.53	13	0.031	0.44	0.022	0.3	0.04	0.4
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.021	0.19	0.027	0.28	0.24	0.32	0.28	0.066
Beryllium	<0.0003	0.0008	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.027	0.024	0.014	0.023	0.0066	0.044	0.035	0.012
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.021	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	0.023	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	0.0074	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.019	0.0053	0.0058	<0.004	0.0071	0.006	<0.004
Iron	0.62	14	0.014	0.62	0.0064	0.32	0.017	0.77
Lead (AAS)	<0.004	0.031	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.023	<0.01	<0.01	0.012	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	11	19	13	8.9	8	9.9	9.4	12
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.016	0.051	0.021	0.094	0.09	0.11	0.1	0.033
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.017	0.057	0.019	0.013	0.011	0.011	0.0063	0.0088
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	22	.	173	.	162	.	61
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	4.5	11	5.2	55	53	65	62	19
Chloride	.	<1	.	0.72	.	<1	.	1.07
Fluoride	.	0.1	.	<0.1	.	0.1	.	<0.1
Magnesium	1.5	4.9	1.5	4.2	3.9	4.7	4.4	2
Manganese	0.054	0.93	0.056	0.12	0.029	0.074	0.05	0.044
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	2.8	<0.6	0.9	0.68	1.1	0.88	<0.6
Sodium	5.7	6.3	5.6	4.3	4	5.6	5.1	5.5
Sulfate	.	3	.	4	.	3	.	8.9

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-533			GW-534				GW-535
	OLF			OLF				OLF
	03/26/91	06/25/91		03/26/91		06/25/91		03/26/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	2.7	0.045	0.048	0.064	0.074	0.036	1.1
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.063	0.11	0.065	0.62	0.69	0.72	0.72	0.39
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.021	0.018	0.039	0.048	0.041	0.049	0.044	0.031
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	0.0032	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.019	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.023	0.005	0.0044	<0.004	0.0058	<0.004	<0.004
Iron	0.0071	4.3	0.04	0.16	0.081	0.38	0.31	2.1
Lead (AAS)	<0.004	0.017	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.012	0.039	0.019	<0.01	0.017	0.014	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.9	15	10	9.1	9.1	11	11	11
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.034	0.041	0.037	0.79	0.9	0.54	0.58	0.16
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0086	0.021	0.011	0.0046	0.0087	0.0088	0.0054	0.01
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	62	.	255	.	179	.	241
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	19	21	20	54	62	85	67	85
Chloride	.	1	.	1.8	.	2	.	4.4
Fluoride	.	0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	2	2.7	2	8.4	9.5	8.5	8.3	8.5
Manganese	0.0012	0.32	0.017	0.1	0.11	0.19	0.17	0.39
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	1.1	<0.6	2.2	2.2	1.6	1.8	1.1
Sodium	5.3	5.8	6	8	8.3	6.8	7.9	4.7
Sulfate	.	7	.	8	.	7	.	14.1

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-535			GW-537				
	OLF			OLF				
	03/26/91	06/24/91		03/26/91		06/25/91		08/14/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	3.5	0.09	0.21	0.21	0.14	0.11	<0.2
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
Barium	0.34	0.38	0.33	2	2.1	1.8	1.8	2.1
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00055	<0.003
Boron	0.013	0.046	0.038	0.027	0.027	0.054	0.17	0.049
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.03
Chromium (AAS)	<0.01	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	0.016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
Copper	<0.004	0.087	0.012	0.018	0.012	0.013	0.016	<0.04
Iron	0.28	8.1	0.14	0.038	0.0061	0.042	0.011	0.073
Lead (AAS)	<0.004	0.012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
Nickel	<0.01	0.022	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
Selenium	<0.05	<0.05	<0.05	0.064	0.051	0.086	0.1	<0.5
Silicon	8.9	14	9.2	9	9.5	8.9	8.7	9.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.06
Strontium	0.16	0.15	0.16	2.4	2.5	2.3	2.3	2.7
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2
Uranium (Fluor)	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001
Vanadium	<0.005	0.0059	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
Zinc	0.013	0.26	0.021	0.0044	0.0045	0.0038	0.0045	0.038
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	197	.	223	.	208	.	220
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	80	86	87	1000	1100	1100	1100	1200
Chloride	.	3	.	24.3	.	20	.	21
Fluoride	.	0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	7.8	8.7	8.3	63	66	53	53	74
Manganese	0.37	0.82	0.73	<0.001	<0.001	0.0042	0.0038	<0.01
Nitrate-N	.	<0.2	.	3293	.	626	.	647
Potassium	0.91	2.4	1.2	3.1	2.9	2.3	2.6	6.5
Sodium	4.5	5.4	5.2	26	26	21	22	26
Sulfate	.	11	.	<1	.	<10	.	<10

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-537			GW-538				GW-601
	OLF			OLF				OLF
	08/14/91	10/23/91		03/28/91		06/25/91		01/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.2	<0.02	<0.02	0.78	0.058	4.4	0.05	0.056
Antimony	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.5	<0.05	<0.05	0.061	<0.05	<0.05	<0.05	<0.05
Barium	1.9	<0.001	<0.001	0.27	0.26	0.32	0.26	0.07
Beryllium	<0.003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.041	<0.004	<0.004	0.015	0.04	0.024	0.017	0.077
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.03	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.04	<0.004	<0.004	<0.004	<0.004	0.0089	<0.004	<0.004
Iron	<0.05	0.0065	<0.005	0.98	0.064	4.8	0.072	2.9
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.1	<0.01	0.014	<0.01	<0.01	0.017	<0.01	<0.01
Selenium	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.5	.	.	9.5	8.3	13	7.8	4.7
Silver	<0.06	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	2.3	0.0012	0.00067	0.087	0.088	0.097	0.094	1.6
Thorium	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	<0.001	<0.001	0.001	<0.001	<0.001
Vanadium	<0.05	<0.005	<0.005	<0.005	<0.005	0.0051	<0.005	<0.005
Zinc	0.032	0.0025	<0.002	0.011	0.0067	0.018	0.0054	0.007
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	225	.	174	.	162	.	195
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	1000	1.4	0.9	56	58	58	57	76
Chloride	.	23	.	0.7	.	<1	.	37
Fluoride	.	<0.1	.	<0.1	.	0.1	.	0.3
Magnesium	65	0.37	0.24	5	5	5.7	4.8	40
Manganese	<0.01	0.0012	0.001	0.19	0.15	0.33	0.14	0.089
Nitrate-N	.	717.54	.	<0.2	.	<0.2	.	25
Potassium	<6	<0.6	<0.6	0.77	0.77	1.8	0.83	2.3
Sodium	23	<0.02	<0.02	3.3	3.3	3.4	3.7	22
Sulfate	.	2	.	4.8	.	5	.	27

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-601							GW-602
	OLF							OLF
	01/25/91	05/04/91		08/30/91		10/31/91		01/25/91
	DIS	TCT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.05	<0.02	<0.02	0.024	<0.02	0.25	0.028	0.053
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.064	0.072	0.07	0.066	0.065	0.066	0.065	0.025
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.059	0.023	0.054	0.076	0.09	0.069	0.072	0.023
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	0.005	<0.004	<0.004
Iron	0.6	0.54	0.1	0.71	0.088	2.3	0.061	0.074
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	2.5	2.2	4.6	.	.	.	.	1.9
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	1.5	1.5	1.4	1.6	1.6	1.4	1.5	1.9
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.008	<0.002	<0.002	0.012	0.0063	0.046	0.019	0.0053
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	195	.	196	.	193	.	124
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	76	79	74	78	80	77	79	87
Chloride	.	46	.	44	.	47	.	3
Fluoride	.	0.27	.	0.2	.	0.3	.	0.8
Magnesium	39	39	38	37	38	38	39	40
Manganese	0.079	0.019	0.015	0.046	0.045	0.066	0.049	0.0012
Nitrate-N	.	37	.	170	.	30.42	.	<10
Potassium	2.2	2	2	1.5	1.6	2.1	1.8	15
Sodium	21	20	20	20	20	22	23	2.8
Sulfate	.	26	.	29	.	32	.	24

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-602							GW-613
	OLF							S3
	01/25/91	05/06/91		08/22/91		10/18/91		01/05/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.064	0.049	0.027	0.028	<0.02	<0.02	<0.02	0.15
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.021	0.028	0.027	0.031	0.03	0.024	0.023	0.066
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.033	<0.004	0.018	0.015	0.013	0.02	0.018	0.11
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.025	0.089	0.01	0.051	0.011	0.11	0.0054	0.11
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	1.7	3.5	3.5	.	.	.	.	6.7
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	1.7	2	2	2.1	2	2	2	0.05
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0027	0.0021	<0.002	<0.002	0.0047	0.016	0.0067	0.0079
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	132	.	130	.	152	.	88
Alkalinity-CO3	.	<1	.	4	.	<1	.	<1
Calcium	79	100	97	100	100	96	95	29
Chloride	.	2	.	2	.	2	.	1
Fluoride	.	0.75	.	0.8	.	0.8	.	<0.1
Magnesium	38	42	40	43	42	43	43	3
Manganese	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.012
Nitrate-N	.	<2	.	<0.2	.	0.26	.	<0.2
Potassium	15	6.5	6.7	9	9.6	6	6.4	<0.6
Sodium	2.9	1.5	1.5	1.9	1.9	1.6	1.5	3.6
Sulfate	.	288	.	255	.	315	.	5

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-613							GW-614
	S3							S3
	01/05/91	04/04/91		07/01/91		10/01/91		01/05/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.048	0.65	0.042	0.28	0.026	0.4	0.4	0.041
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.072	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.061	0.062	0.056	0.062	0.058	0.058	0.058	0.15
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.089	0.0086	0.0081	0.01	0.0098	<0.004	0.016	0.024
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.0059	0.26	0.013	0.11	0.0084	0.21	0.19	0.11
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.4	9.9	7.9	3.1	7.5	.	.	12
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.049	0.049	0.046	0.047	0.045	0.05	0.05	0.53
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0046	0.017	0.0083	0.0095	0.0044	0.074	0.011	0.0024
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	91	.	79	.	89	.	176
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	28	28	26	33	30	30	30	44
Chloride	.	1	.	1	.	1	.	0.8
Fluoride	.	<0.1	.	0.1	.	<0.1	.	<0.1
Magnesium	2.8	2.9	2.7	3	2.8	2.9	2.9	9.3
Manganese	0.0015	0.0056	<0.001	0.0058	0.0025	0.006	0.006	0.015
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	<0.6	<0.6	<0.6	0.74	0.65	<0.6	1.4
Sodium	3.7	3.6	3.4	4	3.9	3.6	3.8	9.2
Sulfate	.	6	.	6	.	5	.	10

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-614							GW-615
	S3							S3
	01/05/91	04/04/91		07/02/91		10/01/91		01/11/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.034	0.026	<0.02	<0.02	0.12	0.14	<2
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<5
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<5
Barium	0.14	0.14	0.14	0.15	0.14	0.14	0.15	360
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.03
Boron	0.031	0.021	0.022	<0.004	<0.004	0.017	0.3	1.4
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.14
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.3
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5
Copper	<0.004	<0.004	<0.004	<0.004	0.015	<0.004	<0.004	1.6
Iron	0.094	0.061	0.053	0.074	0.07	0.17	0.15	20
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0093
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<5
Silicon	11	9.6	9.6	8.8	8.5	.	.	8.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.6
Strontium	0.51	0.55	0.54	0.53	0.52	0.54	0.54	320
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<20
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.414
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5
Zinc	0.0013	0.0081	0.0069	0.0022	0.0094	0.0054	0.0066	<0.1
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	171	.	163	.	168	.	224
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	43	43	43	35	35	47	48	9800
Chloride	.	<1	.	<1	.	<1	.	71
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	9	9.1	9	9.2	9.2	9.1	9.2	2200
Manganese	0.014	0.014	0.012	0.013	0.013	0.013	0.013	21
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	10900
Potassium	1.3	1.6	1.5	1.4	1.5	1.8	1.3	110
Sodium	8.9	9.4	9.5	9.7	9.6	9.8	10	3000
Sulfate	.	14	.	13	.	11	.	<1000

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-615							GW-616
	S3							S3
	01/11/91	04/10/91		08/05/91		10/08/91		01/12/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	3.8	4.5	<2	<2	<2	<2	<2	0.067
Antimony	<5	<5	<5	<5	<5	<5	<5	<0.05
Arsenic	<5	<5	<5	<5	<5	<5	<5	<0.05
Barium	360	390	360	390	380	380	390	0.16
Beryllium	<0.03	<0.03	<0.03	<0.03	<0.03	<0.3	<0.3	<0.0003
Boron	1.6	<0.4	1.3	0.44	0.79	4.4	10	0.93
Cadmium (AAS)	0.14	0.13	0.13	0.035	0.033	0.0074	0.0074	<0.002
Cadmium	<0.3	<0.3	<0.3	<0.3	<0.3	<3	<3	<0.003
Chromium (AAS)	<0.01	0.17	0.16	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<1	<1	<1	<1	<1	<1	<1	<0.01
Cobalt	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.005
Copper	1	0.77	<0.4	<0.4	<0.4	<4	<4	<0.004
Iron	18	25	21	15	13	<5	15	3.1
Lead (AAS)	<0.004	1.3	1.3	0.0082	<0.004	0.0041	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00053
Molybdenum	<1	<1	<1	<1	<1	<1	<1	<0.01
Nickel	<1	<1	<1	<1	<1	<1	<1	<0.01
Selenium	<5	<5	<5	<5	<5	<5	<5	<0.05
Silicon	12	12	10	6.5	5.3	.	.	4.3
Silver	<0.6	<0.6	<0.6	<0.6	<0.6	<6	<6	<0.006
Strontium	320	360	330	370	360	340	350	0.32
Thorium	<20	<20	<20	<20	<20	<20	<20	<0.2
Uranium (Fluor)	0.373	0.35	0.28	0.38	0.41	0.38	0.4	<0.001
Vanadium	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.005
Zinc	<0.1	0.96	0.7	<0.2	<0.2	20	2.2	0.0033
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	157	.	187	.	208	.	189
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	14
Calcium	9700	9200	10000	10000	10000	10000	11000	4.9
Chloride	.	72	.	<100	.	47	.	8
Fluoride	.	<0.1	.	<0.1	.	0.1	.	0.8
Magnesium	2200	2300	2300	2500	2400	2500	2600	0.95
Manganese	21	20	20	20	20	24	25	0.047
Nitrate-N	.	2469	.	5712	.	7952	.	417
Potassium	120	120	110	160	160	<60	<60	3.6
Sodium	3000	2700	3000	3600	3700	3200	3100	460
Sulfate	.	<5000	.	<100	.	<10	.	12

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-616							GW-621
	S3							BG
	01/12/91	04/12/91		07/27/91		10/07/91		03/20/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.044	<0.02	0.15	<0.02	0.12	<0.02	3.3
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.22	0.2	0.21	0.18	0.22	0.13	0.042
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00043
Boron	0.86	0.78	0.8	0.77	0.77	1.5	0.86	1.2
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	0.0032	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.029
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.041
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.015	<0.004	<0.004	0.0078	<0.004	0.0052	<0.004	<0.004
Iron	0.018	4.5	0.039	4.5	<0.005	2.7	0.012	3.2
Lead (AAS)	<0.004	0.0051	<0.004	0.011	<0.004	0.004	<0.004	0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	0.045
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.6	3.7	3.1	3.3	3.2	.	.	10
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.31	0.41	0.42	0.44	0.43	0.5	0.37	0.078
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.008
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0041	<0.002	<0.002	0.012	0.0023	0.012	0.088	0.019
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	149	.	150	.	152	.	152
Alkalinity-CO3	.	<1	.	20	.	20	.	<1
Calcium	3.5	4.2	4.1	6.1	4.3	5	3.3	58
Chloride	.	10	.	9	.	9	.	5
Fluoride	.	0.5	.	0.8	.	0.7	.	<0.1
Magnesium	0.89	1.2	1.2	1.3	1.2	1.4	1.2	9.4
Manganese	0.0055	0.038	<0.001	0.047	0.0042	0.026	0.004	0.17
Nitrate-N	.	1089	.	240	.	222	.	6
Potassium	4.2	5	5	5.4	5	5.3	4.6	2.5
Sodium	480	510	500	540	540	560	490	4.4
Sulfate	.	11	.	14	.	11	.	6

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-621							GW-622
Location	BG							BG
Date Sampled	03/20/91	06/20/91		09/10/91		11/16/91		03/20/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.21	0.46	0.026	1	0.036	0.99	0.06	0.028
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.026	0.027	0.023	0.035	0.028	0.034	0.036	0.11
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	0.00033	<0.0003	<0.0003	<0.0003
Boron	1.6	<0.004	0.024	0.053	0.059	0.013	0.029	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.063	<0.01	0.095	<0.01	0.13	<0.01	<0.01
Chromium	0.011	0.026	<0.01	0.088	<0.01	0.052	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.005	0.0057	<0.004	0.0066	0.01	<0.004
Iron	0.081	0.65	0.0053	1.6	0.01	1.7	0.072	0.018
Lead (AAS)	0.0041	<0.004	<0.004	<0.004	<0.004	0.0049	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.038	<0.01	0.056	<0.01	0.098	0.011	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.6	5.1	4.6	.	.	.	.	4.5
Silver	<0.006	<0.006	<0.006	<0.006	0.008	<0.006	<0.006	<0.006
Strontium	0.076	0.071	0.071	0.096	0.093	0.072	0.12	0.099
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.007	0.006	0.004	0.018	0.048	0.006	0.005	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0048	0.002	0.0084	0.015	0.0089	0.21	0.03	0.02
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	145	.	160	.	147	.	149
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	57	35	35	64	64	59	89	59
Chloride	.	4	.	7	.	4.1	.	6
Fluoride	.	0.2	.	<0.1	.	0.1	.	<0.1
Magnesium	9.1	8.2	8.2	11	11	11	16	2.9
Manganese	0.0029	0.023	0.0017	0.058	<0.001	0.077	0.0033	0.31
Nitrate-N	.	4.12	.	9.58	.	7.18	.	<0.2
Potassium	1.9	1.9	2.2	2	1.9	1	1.5	1.4
Sodium	5.5	2.3	2.4	4.3	4.4	2.7	4.6	1.7
Sulfate	.	4	.	9	.	5.6	.	4

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-622							GW-623
	BG							BG
	03/20/91	06/20/91		09/25/91		12/21/91		03/24/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.021	0.026	0.04	<0.02	0.054	0.047	0.7
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.1	0.11	0.11	0.19	0.19	0.011	0.14	0.021
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.06	0.069	0.021	0.016	0.038	0.064	0.33
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.0047	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.25
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0057	<0.004	<0.004	<0.004	0.012	0.0051	0.017
Iron	<0.005	0.02	0.014	0.3	0.098	0.69	0.034	1.5
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.074
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.012	0.045	0.04	<0.01	0.025	0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3	5.2	5.1	.	.	.	.	3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.089	0.096	0.096	0.13	0.13	0.031	0.11	0.092
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0073
Zinc	0.025	0.0099	0.0076	0.003	<0.002	0.035	0.021	0.17
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	160	.	166	.	172	.	372
Alkalinity-CO3	.	<1	.	<1	.	<1	.	266
Calcium	44	61	61	61	59	12	67	7.4
Chloride	.	6	.	8	.	7.2	.	45
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	6.5
Magnesium	2.5	3.1	3.1	3.7	3.6	3.5	4.2	0.43
Manganese	0.16	0.28	0.29	0.7	0.64	0.013	0.16	0.026
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.3	1.3	1.2	0.93	1	1.1	1.6	11
Sodium	1.5	1.9	1.9	1.8	4.2	2.5	6.9	400
Sulfate	.	4	.	5	.	5.8	.	65

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-623							GW-624
	BG							BG
	03/24/91	06/21/91		09/26/91		12/22/91		03/24/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.28	21	5.3	2	0.18	0.87	0.34	1
Antimony	0.051	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.0089	0.62	0.0032	0.028	0.0039	0.019	0.0073	0.12
Beryllium	0.0025	0.0012	0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.81	0.83	0.63	0.76	0.74	0.73	0.72	0.019
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.44	<0.01	0.026	<0.01	0.012	<0.01	0.027
Chromium	<0.01	0.072	<0.01	0.02	<0.01	0.016	<0.01	<0.01
Cobalt	<0.005	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0057	0.083	0.013	0.0055	<0.004	0.0049	0.0049	0.0044
Iron	0.094	17	0.11	1.6	0.026	0.59	0.035	0.68
Lead (AAS)	0.0082	0.56	<0.004	0.018	<0.004	<0.004	<0.004	0.0086
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00022	<0.0002	0.00027
Molybdenum	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.6	71	18	.	.	.	.	4.1
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.056	2.2	0.017	0.1	0.036	0.084	0.066	0.29
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.001	0.006	0.005	0.002	0.002	0.002	0.004
Vanadium	0.011	0.044	0.028	0.01	0.0058	0.0065	<0.005	<0.005
Zinc	0.013	1.2	0.0068	0.038	0.0049	0.024	0.0077	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	261	.	172	.	386	.	173
Alkalinity-CO3	.	342	.	320	.	264	.	<1
Calcium	1.6	480	1.1	8.7	0.98	4	1.1	77
Chloride	.	50	.	49	.	50.6	.	5
Fluoride	.	7.3	.	7.3	.	7.6	.	0.2
Magnesium	0.21	10	0.041	0.57	0.13	0.33	0.17	8.5
Manganese	0.0069	0.63	0.0023	0.021	<0.001	0.011	0.0017	0.16
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	11	14	18	8	8.3	6.8	7	3.7
Sodium	370	380	400	350	360	350	340	2.4
Sulfate	.	73	.	64	.	52.3	.	24

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-624			GW-626				
	EG			BG				
	03/24/91	06/21/91		03/23/91		06/20/91		09/26/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.022	0.17	0.029	0.039	0.031	0.034	0.043	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.062	0.1	0.098	0.12	0.11	0.11	0.11	0.13
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.0093	0.044	0.032	<0.004	0.016	0.014	0.035	0.0055
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.0036	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.014	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0061	0.0057	0.0052	0.0062	0.007	<0.004
Iron	0.0069	0.22	0.086	0.022	0.013	<0.005	<0.005	0.016
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.016	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.4	3.7	3.6	7.9	7.7	8.5	8.6	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.26	0.37	0.37	0.099	0.092	0.091	0.091	0.1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.005	0.006	0.006	<0.001	<0.001	0.001	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.018	0.011	0.0036	0.011	<0.002	<0.002	0.0087
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	216	.	94	.	91	.	96
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	60	90	89	31	29	32	31	34
Chloride	.	<5	.	3	.	2	.	3.2
Fluoride	.	0.3	.	<0.1	.	0.2	.	<0.1
Magnesium	7.1	11	11	2.3	2.2	2.2	2.2	2.5
Manganese	<0.001	0.082	0.069	0.0028	0.0028	0.0012	0.0011	0.0018
Nitrate-N	.	<1	.	<0.2	.	<0.2	.	<0.2
Potassium	3.9	5.9	5.9	1.6	1.7	1.6	1.7	1.8
Sodium	3.1	2.4	2.3	3.2	3.3	4	3.9	3.6
Sulfate	.	57	.	4	.	<0.2	.	2.8

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-626			GW-627				
	BG			BG				
	09/26/91	12/22/91		03/24/91		06/22/91		09/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.035	<0.02	<0.02	0.038	0.09	0.025	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.14	0.14	0.037	0.037	0.038	0.037	0.03
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.033	0.024	0.022	0.48	0.51	0.6	0.5	0.46
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.004	<0.004	0.0074	0.027	0.021	<0.004
Iron	0.0072	0.022	0.032	0.26	0.058	0.16	0.048	0.14
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	3.1	3.6	3.7	3.7	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.1	0.1	0.074	0.076	0.075	0.076	0.066
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.2	0.009	0.009	<0.002	0.0063	0.02	0.01	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	101	.	476	.	462	.	459
Alkalinity-CO ₃	.	<1	.	80	.	58	.	80
Calcium	34	41	40	0.89	0.91	0.97	0.94	0.86
Chloride	.	9.2	.	20	.	17	.	18
Fluoride	.	0.2	.	4.7	.	5.8	.	5.6
Magnesium	2.5	2.9	2.8	0.19	0.19	0.21	0.2	0.19
Manganese	0.0012	0.0013	0.0019	0.0068	0.0064	0.0074	0.0074	0.0099
Nitrate-N	.	<0.2	.	<0.2	.	<2	.	<0.2
Potassium	1.5	1.5	1.5	1.5	1.6	0.97	1.2	1.1
Sodium	3.7	4	3.8	290	260	260	260	270
Sulfate	.	2.7	.	36	.	37	.	31.8

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-627			GW-629				GW-630
	BG			BG				OLF
	09/25/91	12/18/91		03/26/91		06/22/91		03/26/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	<0.02	0.048	0.022	0.027	0.031	0.059
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.03	0.042	0.04	0.036	0.033	0.031	0.03	0.36
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.46	0.49	0.48	0.52	0.51	0.13	0.54	0.014
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0045	<0.004	<0.004	<0.004	<0.004	0.0051
Iron	0.047	0.13	0.057	0.91	0.036	0.36	0.062	0.086
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	3.9	3.6	0.27	3.9	8.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.066	0.071	0.069	0.052	0.051	0.05	0.05	0.11
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.012	0.0089	0.0089	0.0049	<0.002	0.002	0.0048
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	464	.	400	.	371	.	182
Alkalinity-CO3	.	70	.	82	.	72	.	<1
Calcium	0.87	1	0.84	0.88	0.81	0.76	0.71	56
Chloride	.	19	.	12.2	.	9	.	1.5
Fluoride	.	14	.	2.9	.	3.3	.	<0.1
Magnesium	0.19	0.25	0.18	0.16	0.14	0.15	0.14	5.5
Manganese	0.0093	0.0074	0.0058	0.014	0.0049	0.011	0.0074	0.092
Nitrate-N	.	<2.26	.	<0.2	.	<1	.	<0.2
Potassium	1.3	1.7	0.97	1.1	1.1	0.82	1.4	1
Sodium	270	300	280	230	220	240	240	4.2
Sulfate	.	28	.	24.5	.	20	.	9.2

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-630							GW-636
	OLF							OLF
	03/26/91	06/25/91		08/09/91		10/14/91		02/11/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.047	0.048	0.026	<0.02	0.31	0.053	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.35	0.42	0.41	0.41	0.42	0.44	0.43	0.23
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.047	0.022	0.014	<0.004	0.0072	0.015	0.028	0.37
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0048	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.011	0.2	0.094	0.089	0.045	0.45	0.1	0.35
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	8.2	8.9	8.9	<	8.3	.	.	5.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.12	0.12	0.11	0.12	0.12	0.12	0.59
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0066	0.0085	0.0069	<0.002	<0.002	0.0059	0.01	0.0026
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	177	.	187	.	192	.	166
Alkalinity-CO3	.	<1	.	<1	.	<1	.	4
Calcium	54	63	62	66	66	69	69	7.5
Chloride	.	2	.	2	.	2	.	5
Fluoride	.	0.1	.	<0.1	.	0.1	.	0.2
Magnesium	5.4	5.8	5.7	6.6	6.4	6.5	6.5	2.5
Manganese	0.049	0.15	0.13	0.14	0.14	0.16	0.15	0.011
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.87	0.99	1	0.89	0.62	0.88	0.72	5.1
Sodium	4.2	4.8	4.9	4.3	4.3	4.1	4.1	68
Sulfate	.	8	.	7.8	.	8	.	5

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-636							GW-637
	OLF							OLF
	02/11/91	05/16/91		08/21/91		10/18/91		02/12/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	0.035	<0.02	<0.02	<0.02	<0.02	0.17
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.22	0.23	0.22	0.24	0.24	0.23	0.23	0.16
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.38	0.43	0.41	0.38	0.39	0.36	0.35	0.0094
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	0.0031	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.079	0.6	0.078	0.24	0.065	0.34	0.055	0.17
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.4	5.5	5.4	.	.	.	.	5.6
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.57	0.59	0.57	0.61	0.61	0.57	0.57	0.2
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.013	0.0084	0.0046	0.0043	0.0051	0.0092	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	156	.	161	.	169	.	198
Alkalinity-CO3	.	16	.	2	.	2	.	<1
Calcium	7.3	7.8	7.6	8.2	8.2	7.9	7.9	74
Chloride	.	5	.	6	.	7	.	3
Fluoride	.	0.11	.	0.1	.	0.1	.	<0.1
Magnesium	2.4	2.4	2.3	2.8	2.8	2.4	2.5	5.9
Manganese	0.0089	0.014	0.0095	0.01	0.0089	0.011	0.0087	0.027
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	4.8	3.7	4.1	5.3	5.8	4.9	5.1	1.6
Sodium	65	60	63	70	70	67	66	2.4
Sulfate	.	5	.	6	.	6	.	8

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GN-637							GN-638
	OLF							OLF
	02/12/91	05/17/91		08/20/91		10/17/91		02/12/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.044	0.21	0.057	0.07	<0.02	0.1	<0.02	0.71
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.071
Barium	0.14	0.17	0.21	0.12	0.089	0.15	0.13	0.076
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.013	0.03	0.014	0.018	0.028	0.021	0.028	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.019
Chromium	<0.01	0.024	0.015	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0063	<0.004	<0.004	0.0063	<0.004	<0.004	0.023
Iron	0.0052	0.14	0.013	0.064	0.022	0.17	<0.005	1.2
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0074
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.1	4.3	3.9	.	.	.	.	5.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.19	0.2	0.21	0.17	0.16	0.18	0.17	0.33
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.001	<0.001	0.001	0.001	0.001	0.001	0.008
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0034	0.0067	0.0068	0.0068	0.0073	0.0037	0.028
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	204	.	197	.	205	.	215
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	74	71	73	68	71	74	73	86
Chloride	.	3	.	3	.	3	.	2
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	0.4
Magnesium	5.7	5.5	5.1	5.1	4.7	5.4	4.9	13
Manganese	0.023	0.023	0.032	0.02	0.012	0.021	0.018	0.023
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	0.3
Potassium	1.5	1.5	1.2	1.3	0.8	1.6	1.4	8.4
Sodium	2.7	2.8	2.6	2.1	2.1	2.4	2.3	11
Sulfate	.	8	.	7	.	8	.	74

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-638							GW-639
	OLF							BG
	02/12/91	05/17/91		08/20/91		10/17/91		03/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.067	0.52	0.064	1.6	0.54	1.5	<0.02	0.19
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.049	0.19	0.21	0.14	0.12	0.1	0.081	0.069
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.022	0.048	0.03	0.029	0.025	0.034	0.032	0.53
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
Cadmium	<0.003	<0.003	0.0037	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	0.015	<0.01	0.013	<0.01	0.024
Chromium	<0.01	0.011	0.011	<0.01	<0.01	<0.01	<0.01	0.019
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.006	0.0063	0.011	0.0063	0.0089	0.0053	0.0056
Iron	0.016	0.36	0.016	2.4	0.83	2.7	<0.005	2.1
Lead (AAS)	<0.004	<0.006	<0.004	0.0045	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.019	0.014	<0.01	0.012	<0.01	<0.01	<0.01	0.018
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.6	4.7	4.4	.	.	.	.	3.1
Silver	<0.006	<0.006	<0.006	<0.006	0.3	<0.006	<0.006	<0.006
Strontium	0.31	0.37	0.38	0.34	0.35	0.3	0.3	0.1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.007	0.007	0.005	0.008	0.006	0.009	0.008	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.002	0.0046	0.005	0.015	0.011	0.011	0.0057	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	221	.	223	.	203	.	341
Alkalinity-CO3	.	<1	.	<1	.	<1	.	102
Calcium	93	83	82	110	120	92	90	1.3
Chloride	.	2	.	2	.	1	.	11
Fluoride	.	0.3	.	0.4	.	0.4	.	1.6
Magnesium	13	13	13	16	15	15	14	0.37
Manganese	0.0047	0.029	0.032	0.047	0.018	0.032	0.0079	0.027
Nitrate-N	.	0.77	.	0.58	.	1.01	.	<0.2
Potassium	4.2	7.1	5.7	7.6	6.5	6	5.5	1.8
Sodium	18	10	11	6	11	5.2	5.3	200
Sulfate	.	70	.	94	.	162	.	31

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-639							GW-640
	BG							BG
	03/25/91	06/22/91		09/09/91		11/16/91		03/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.04	0.31	0.039	1.7	0.02	0.57	<0.02	0.041
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.053
Barium	0.047	0.064	0.05	0.062	0.053	0.066	0.053	0.065
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.52	0.61	0.62	0.57	0.58	0.46	0.56	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.004	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.019	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	0.016
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.013	0.0047	0.0043	0.0044	0.0044	0.009	<0.004
Iron	0.13	1.4	0.037	1.1	0.021	2.6	0.029	0.12
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	2.7	4.3	3.2	.	.	.	.	6.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.086	0.1	0.09	0.089	0.086	0.088	0.082	0.047
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0087	0.007	0.0088	0.0034	0.0094	0.0059	0.0084
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	334	.	335	.	336	.	39
Alkalinity-CO ₃	.	68	.	76	.	72	.	<1
Calcium	0.8	1.4	0.93	0.88	0.82	1.4	0.8	13
Chloride	.	9	.	10	.	9.4	.	<1
Fluoride	.	6	.	2.4	.	3	.	<0.1
Magnesium	0.27	0.36	0.26	0.6	0.23	0.4	0.22	1.4
Manganese	0.0036	0.017	0.003	0.0054	0.0016	0.025	<0.001	0.012
Nitrate-N	.	<1	.	<0.2	.	<1.13	.	<0.2
Potassium	1.7	1.6	1.5	2.2	1.7	1.6	1	0.88
Sodium	190	200	210	230	240	210	210	2.6
Sulfate	.	28	.	30	.	27.7	.	4

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-640							GW-641
	BG							BG
	03/25/91	06/22/91		09/09/91		11/15/91		03/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.12	<0.02	0.028	<0.02	<0.02	<0.02	0.067
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	0.067	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.064	0.07	0.068	0.071	0.067	0.066	0.064	0.032
Beryllium	<0.0003	<0.0003	<0.0003	0.00034	0.00039	<0.0003	<0.0003	<0.0003
Boron	0.031	0.05	0.016	0.029	0.018	0.0068	0.0072	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.016
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.008	<0.004	<0.004	<0.004	<0.004	0.0043
Iron	<0.005	0.03	0.0098	0.042	<0.005	0.045	0.0079	0.13
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	0.00022	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.026	0.019	<0.01	<0.01	<0.01	<0.01	0.016
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.9	7.4	7.4	.	.	.	.	5.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.042	0.047	0.047	0.048	0.049	0.047	0.046	0.014
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.019	0.014	0.017	0.0078	0.0069	0.049	0.007	0.021
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	37	.	45	.	46	.	13
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	11	13	13	15	15	16	16	2.8
Chloride	.	<1	.	<1	.	1	.	<1
Fluoride	.	<0.1	.	<0.1	.	0.1	.	<0.1
Magnesium	1.2	1.4	1.4	1.5	1.5	1.5	1.5	0.69
Manganese	0.018	0.0074	0.0074	0.0055	0.0048	0.0053	0.0037	0.05
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.9	0.67	0.97	0.88	0.7	0.8	0.61	0.63
Sodium	3.6	3	3.7	3.5	3.6	3.4	3.6	2.3
Sulfate	.	3	.	3	.	2	.	2

(CONTINUED)

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APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-641							GW-642
	BG							BG
	03/25/91	06/22/91		09/09/91		11/15/91		03/09/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.12	0.021	0.4	<0.02	0.43	0.042	0.51
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.055
Barium	0.029	0.056	0.055	0.037	0.036	0.052	0.037	0.14
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00036	<0.0003	<0.0003
Boron	0.005	0.012	0.02	0.012	0.017	0.0079	0.0046	0.0074
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.004
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.018
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.047
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.005	0.0081	0.0085	<0.004	<0.004	0.0078	0.007	0.0045
Iron	0.0064	0.19	0.03	0.54	0.0054	0.69	0.011	3.6
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.0078	<0.004	0.0041
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.013	0.059	<0.01	<0.01	<0.01	<0.01	0.16
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6.1	6.2	6.2	.	.	.	.	3.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.014	0.026	0.026	0.019	0.026	0.015	0.014	0.025
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.059	0.055	0.056	0.019	0.044	0.013	0.031	0.019
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	10	.	15	.	20	.	56
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	2.4	2.7	3.1	5.8	7.4	5	5	7.5
Chloride	.	<1	.	<1	.	<1	.	1
Fluoride	.	<0.1	.	<0.1	.	0.1	.	0.3
Magnesium	0.65	0.73	0.76	0.8	0.71	0.88	0.76	8
Manganese	0.049	0.056	0.035	0.035	0.0065	0.073	0.0039	1.2
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.71	0.61	<0.6	0.62	66	<0.6	<0.6	2
Sodium	2.4	1.8	1.9	2.7	3.6	2.3	2.4	7.5
Sulfate	.	<1	.	<1	.	<1	.	14

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-642							GW-643
	BG							BG
	03/09/91	06/15/91		09/04/91		11/03/91		02/27/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.48	<0.02	0.83	<0.02	0.31	<0.02	2.1
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.14	0.12	0.13	0.1	0.11	0.092	0.31
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.012	<0.004	0.03	0.032	0.021	0.03	0.022	0.016
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0076
Chromium (AAS)	<0.01	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	0.042
Chromium	<0.01	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.013
Iron	4.2	2.9	2.7	5.5	3.5	3.3	2	1.7
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.012
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.034	0.019	0.026	0.018	0.02	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	13	14	14	.	.	.	.	11
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.027	0.026	0.024	0.027	0.027	0.02	0.02	0.038
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.034	0.01	0.0062	0.016	0.0093	0.015	0.0097	0.052
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	53	.	54	.	50	.	18
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	9.1	8	7.6	8.8	8.8	7	6.8	10
Chloride	.	1	.	1	.	1	.	<1
Fluoride	.	0.4	.	0.4	.	0.3	.	<0.1
Magnesium	7.3	7.2	7.5	7.4	7.1	6.6	6.7	3.2
Manganese	1.9	1.5	1.3	1.5	1.4	1.3	1.2	0.15
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.8	1.7	1.7	2	1.8	1.7	1.8	2.5
Sodium	8	6.8	7	7.5	7.6	7.8	8.1	7.2
Sulfate	.	13	.	11	.	12	.	20

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-643							GW-644
	BG							OLF
	02/27/91	06/08/91		09/04/91		11/03/91		01/31/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.11	2.2	<0.02	0.84	0.023	0.3	0.031	0.088
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.051	0.071	0.052	0.062	0.043	0.069	0.053	0.079
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.014	0.035	0.021	0.035	0.017	0.026	0.017	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0061	<0.004	<0.004	<0.004	<0.004	0.0049	<0.004
Iron	0.17	2.4	<0.005	1.1	0.13	0.35	0.027	0.17
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.018
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	8.1	14	3	.	.	.	.	4.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.024	0.026	0.026	0.018	0.018	0.019	0.019	0.066
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.035	0.015	0.016	0.028	0.031	0.038	0.035	0.0055
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	15	.	35	.	20	.	79
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	7	7.2	8	4.6	4.8	4.9	4.7	28
Chloride	.	2	.	2	.	2	.	2
Fluoride	.	<0.1	.	0.2	.	<0.1	.	<0.1
Magnesium	2.4	2.7	2.6	1.7	1.6	1.6	1.6	2.4
Manganese	0.093	0.086	0.064	0.048	0.039	0.042	0.033	0.019
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	2.1	3	2.4	3	2.8	1.6	1.7	0.77
Sodium	7.5	6.4	7.2	7.1	7.4	7.6	7.8	3.5
Sulfate	.	21	.	23	.	19	.	<1

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-644							GW-645
	OLF							OLF
	01/31/91	05/10/91		08/20/91		10/17/91		02/12/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.43	<0.02	0.33	0.36	38	<0.02	0.097
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.06	0.054	0.053	0.083	0.071	0.53	0.075	0.087
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0036	<0.0003	<0.0003
Boron	<0.004	0.014	<0.004	0.0052	0.015	0.022	0.021	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.44	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	0.038	<0.005	<0.005
Copper	<0.004	<0.004	0.005	<0.004	<0.004	0.14	<0.004	0.0051
Iron	<0.005	0.57	0.0088	0.36	0.31	74	<0.005	0.18
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.16	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	0.098	<0.01	<0.01
Selenium	0.068	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.2	9.2	8.7	.	.	.	.	6
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.047	0.047	0.049	0.084	0.074	0.17	0.084	0.29
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	0.072	<0.005	<0.005
Zinc	0.0033	0.011	0.021	0.018	0.016	0.23	0.013	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	68	.	84	.	107	.	200
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	21	22	23	47	39	71	32	38
Chloride	.	2	.	2	.	2	.	1
Fluoride	.	<0.1	.	0.1	.	<0.1	.	0.4
Magnesium	1.8	1.9	1.9	2.9	2.5	11	2	27
Manganese	0.0079	0.042	0.02	0.021	0.012	1.1	0.013	0.0035
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.65	0.66	0.74	0.8	0.82	7.2	<0.6	1.7
Sodium	3.2	3.8	4.1	3.3	3.3	3.7	3.5	0.64
Sulfate	.	<1	.	<1	.	1	.	14

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-645							GW-646
	OLF							OLF
	02/12/91	05/17/91		09/22/91		10/18/91		01/31/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.044	0.34	0.032	0.12	<0.02	0.38	<0.02	0.022
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.088	0.1	0.083	0.14	0.22	0.078	0.069	0.025
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.025	0.013	0.03	0.014	0.018	0.028	0.018	0.12
Cadmium (AAS)	<0.002	<0.0022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.044	0.021	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.01	0.0059	<0.004	<0.004	<0.004	0.0082	<0.004
Iron	0.053	0.68	0.011	0.22	<0.005	0.71	<0.005	0.12
Lead (AAS)	<0.004	0.0054	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.041	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.9	5.5	5.8	.	.	.	.	4.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.3	0.26	0.25	0.34	0.37	0.29	0.25	3.5
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001
Vanadium	<0.005	0.0077	<0.005	<0.005	<0.005	0.0057	<0.005	<0.005
Zinc	<0.002	0.0043	0.0037	0.034	0.0094	0.014	0.019	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	203	.	216	.	225	.	202
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	40	44	40	51	47	44	40	140
Chloride	.	1	.	1	.	1	.	2
Fluoride	.	0.37	.	0.5	.	0.5	.	1.5
Magnesium	28	27	26	32	30	31	29	67
Manganese	0.0027	0.023	0.0048	0.0078	0.026	0.009	0.0028	<0.001
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.7	1.4	1.2	1.6	2.2	2.2	1.5	14
Sodium	0.83	1.1	0.8	0.88	0.88	0.8	1.1	17
Sulfate	.	16	.	18	.	23	.	474

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-646							GW-647
	OLF							OLF
	01/31/91	05/10/91		08/22/91		10/21/91		02/01/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.13	0.022	<0.02	0.03	<0.02	<0.02	0.036
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.02	0.029	0.027	0.034	0.029	0.029	0.029	0.026
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.12	0.062	0.073	0.12	0.1	0.12	0.1	0.023
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.14	6.61	0.32	1.1	0.75	0.34	0.28	0.18
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.031	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.3	4.6	4.6	.	.	.	.	3.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	3.4	2.8	2.9	4.1	3.4	3.5	3.5	1.3
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	<0.001	<0.001	0.002	0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.001	0.0067	<0.002	<0.002	0.0045	0.0079	<0.002	0.0032
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	224	.	217	.	207	.	173
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	140	120	120	170	140	140	130	69
Chloride	.	2	.	2	.	2	.	1
Fluoride	.	1.09	.	1.4	.	1.5	.	0.5
Magnesium	69	57	57	79	69	75	74	35
Manganese	0.0011	0.0031	0.0027	0.024	0.0097	0.0026	0.0022	0.0042
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	15	11	11	17	13	13	14	4.3
Sodium	16	12	13	18	15	14	14	2.6
Sulfate	.	441	.	378	.	347	.	124

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-647							GW-648
	OLF							RS
	02/01/91	05/10/91		08/26/91		10/21/91		01/15/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.28	<0.02	<0.02	<0.02	0.059	<0.02	0.44
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.045	0.039	0.028	0.036	0.047	0.03	0.026	0.13
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.024	0.0059	<0.004	0.02	0.017	0.031	0.025	0.0097
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.017	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0067	0.012	<0.004	0.015	<0.004	<0.004	<0.004
Iron	<0.004	0.74	<0.005	0.01	<0.005	0.28	0.062	0.41
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.1	4.4	1.9	.	.	.	.	6.2
Silver	0.0075	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	1.3	1.2	1.2	1.4	1.3	1.3	1.2	0.05
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.001	<0.001	<0.001	<0.001	0.002	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0028	0.011	0.13	0.0022	<0.002	0.0071	0.0041	0.0047
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	168	.	169	.	165	.	189
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	65	64	64	72	66	62	58	38
Chloride	.	1.2	.	1	.	1	.	1
Fluoride	.	267	.	0.4	.	0.4	.	0.4
Magnesium	37	30	32	35	35	35	34	21
Manganese	0.0056	0.0095	0.0024	0.003	0.0069	0.0039	0.0048	0.018
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	4.6	3.5	3.9	3.7	4	3.4	3.7	1.5
Sodium	1.6	2.4	2.4	2.3	2.5	2.2	2.2	1.3
Sulfate	.	157	.	118	.	129	.	2

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-648							GW-649
	RS							OLF
	01/15/91	05/01/91		07/03/91		10/03/91		01/06/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.022	0.099	0.027	<0.02	<0.02	<0.02	<0.02	0.078
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	0.068	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.099
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.023	0.016	0.0096	<0.004	<0.004	0.033	0.0049	0.044
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0087	0.0074	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	<0.004	0.098	<0.005	<0.005	<0.005	0.17	<0.005	0.047
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.7	5.6	5.6	5.6	5.6	.	.	3.1
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.05	0.042	0.042	0.041	0.041	0.049	0.049	0.076
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0023	0.0075	<0.002	<0.002	<0.002	0.0077	<0.002	0.017
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	174	.	176	.	183	.	102
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	37	35	34	32	32	38	37	33
Chloride	.	1	.	1	.	1	.	2
Fluoride	.	0.25	.	0.3	.	0.2	.	<0.1
Magnesium	21	20	20	21	21	22	22	3.3
Manganese	<0.001	0.0015	<0.001	<0.001	<0.001	0.005	<0.001	0.0043
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.5	0.92	0.92	0.87	0.92	0.83	0.78	<0.6
Sodium	1.2	0.72	0.71	0.66	0.66	0.77	0.78	3.2
Sulfate	.	<1	.	1	.	2	.	6

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-649							GW-651
	OLF							BG
	01/06/91	04/06/91		07/02/91		10/02/91		03/23/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.036	<0.02	0.023	0.046	<0.02	0.29	<0.02	0.083
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.096	0.094	0.082	0.099	0.1	0.078	0.073	0.058
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.049	<0.004	0.016	<0.004	<0.004	0.031	0.011	0.066
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	0.0046	<0.004	<0.004	0.012
Iron	<0.004	0.015	0.022	0.042	<0.005	0.24	<0.005	0.22
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.022	0.011	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.8	7.3	6.4	6.6	6.4	.	.	6.6
Silver	<0.006	0.0063	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.076	0.077	0.067	0.076	0.078	0.061	0.059	0.34
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.004	0.0051	0.0049	0.0033	0.0056	0.007	0.0049	0.01
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	105	.	97	.	80	.	139
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	33	33	29	32	32	27	26	61
Chloride	.	2	.	2	.	2	.	5
Fluoride	.	<0.1	.	0.1	.	0.1	.	<0.1
Magnesium	3.1	3.2	2.9	3.2	3.3	2.7	2.7	11
Manganese	0.0029	0.0022	0.0045	0.0027	0.0018	0.012	0.002	0.044
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	<0.6	<0.6	0.84	0.69	<0.6	<0.6	3.2
Sodium	3.4	2.5	2.4	3.2	3.1	3.4	3.3	1.8
Sulfate	.	7	.	6	.	6	.	10

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-651							GW-652
	BG							BG
	03/23/91	06/21/91		09/15/91		11/23/91		03/23/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.027	0.026	0.062	0.15	<0.02	0.098	<0.02	0.079
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.077
Barium	0.057	0.046	0.066	0.042	0.043	0.048	0.048	0.14
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.088	0.0083	0.044	0.044	0.057	0.024	0.043	0.026
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.015	0.0049	<0.004	0.0059	<0.004	<0.004	0.0062	<0.004
Iron	0.038	0.062	0.078	0.26	0.0066	0.33	0.91	0.37
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6.1	0.99	5.9	.	.	.	.	4.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.34	0.31	0.34	0.22	0.26	0.27	0.3	0.16
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0078	0.0092	0.01	0.015	0.0066	0.015	0.0075	0.0057
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	115	.	184	.	160	.	185
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	61	63	66	44	53	57	62	65
Chloride	.	4	.	4	.	4.1	.	6
Fluoride	.	<0.1	.	<0.1	.	0.1	.	<0.1
Magnesium	11	11	11	7.3	9.5	9.8	11	7.5
Manganese	0.03	0.054	0.034	0.03	0.025	0.032	0.013	0.013
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	2.9	3	3	9	4.6	6.1	4.4	2.3
Sodium	1.8	1.7	1.7	2.6	2.1	2.4	2.4	0.76
Sulfate	.	9	.	10	.	9.4	.	9

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-652							GW-653
	BG							BG
	03/23/91	06/21/91		09/14/91		11/23/91		03/23/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.028	0.026	0.055	0.027	2.4	0.022	0.4
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.14	0.14	0.16	0.14	0.14	0.19	0.16	0.066
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.053	0.0042	0.0067	0.027	0.028	0.032	0.025	0.0093
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0099	<0.004	<0.004	0.0047	0.0063	0.0054	0.0041
Iron	0.018	0.35	0.047	0.056	0.012	3.9	0.011	0.38
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.011
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.7	4.8	5	.	.	.	.	8.7
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.17	0.19	0.2	0.17	0.17	0.21	0.21	0.032
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	0.0068	<0.005	<0.005
Zinc	0.0047	0.017	0.0045	0.0076	0.0088	0.016	0.0094	0.011
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	190	.	193	.	197	.	11
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	68	67	73	68	69	73	75	3.6
Chloride	.	4	.	4	.	5.3	.	<1
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	8.3	7.2	7.5	7	7.3	8.6	8.5	1.6
Manganese	0.0018	0.0056	0.016	0.0024	0.0025	0.12	0.0017	0.13
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	2.6	2.9	2.6	2.6	2.2	3.4	3	0.68
Sodium	0.87	0.98	1	0.96	1	1.1	1.3	2.9
Sulfate	.	7	.	7	.	8.5	.	3

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-653							GW-654
	BG							BG
	03/23/91	06/21/91		09/15/91		12/11/91		03/09/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	1.5	3.9	0.74	<0.02	4.6	<0.02	0.16
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.017	0.078	0.069	0.038	0.023	0.1	0.024	0.091
Beryllium	<0.0003	0.00038	0.00034	<0.0003	<0.0003	0.00047	<0.0003	<0.0003
Boron	<0.004	0.052	0.043	0.03	0.014	0.03	0.015	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.019	0.011	<0.01	<0.01	0.011	<0.01	<0.01
Chromium	<0.01	0.02	0.013	<0.01	<0.01	0.011	<0.01	0.015
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.02	0.0064	0.0071	<0.004	0.0048	<0.004	0.0053
Iron	0.013	1.3	3.1	0.59	0.01	2.8	0.033	0.35
Lead (AAS)	<0.004	0.0069	0.0046	<0.004	<0.004	0.0049	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.044	0.02	<0.01	<0.01	<0.01	<0.01	0.011
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.9	10	14	.	.	.	.	2.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.014	0.03	0.025	0.022	0.018	0.049	0.021	0.17
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.002	0.002	<0.001	<0.001	0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	0.015	0.013	0.015	0.011	0.012	0.018	0.012
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	10	.	15	.	12	.	94
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	1.8	3.3	2.5	3.3	2.8	3.5	1.8	13
Chloride	.	<1	.	<1	.	1	.	<1
Fluoride	.	<0.1	.	<0.1	.	0.1	.	0.2
Magnesium	0.88	1.6	1.7	1.2	0.98	1.9	0.86	3.3
Manganese	0.0039	0.083	0.091	0.026	0.0079	0.079	0.0068	0.15
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	0.07
Potassium	<0.6	1	1.6	0.65	0.7	1.8	0.7	1.3
Sodium	2.4	3.4	3.2	2.8	2.7	4	2.8	31
Sulfate	.	2	.	2	.	2	.	13

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-654							GW-655
	BG							BG
	03/09/91	06/15/91		09/14/91		11/23/91		03/09/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.19	<0.02	1.5	0.056	1.3	0.02	0.28
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.083	0.073	0.054	0.076	0.057	0.092	0.076	0.14
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.045	0.035	0.048	0.1	0.12	0.071	0.067	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0077	<0.004	<0.004	0.017	<0.004	<0.004
Iron	0.13	0.31	0.046	1.5	0.078	1.8	0.09	1
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	10	1.3	9.6	.	.	.	.	11
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.17	0.17	0.14	0.16	0.15	0.17	0.19	0.025
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.001	0.174	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0037	<0.002	<0.002	0.015	0.009	0.022	0.017	0.0027
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	97	.	125	.	115	.	37
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	13	13	11	13	13	14	16	4.7
Chloride	.	<1	.	<1	.	<1	.	<1
Fluoride	.	0.5	.	0.5	.	0.6	.	0.2
Magnesium	3.3	3.2	2.6	3.3	3	3.5	4	5.3
Manganese	0.16	0.18	0.13	0.16	0.14	0.18	0.19	0.056
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.5	1.3	1.1	1.4	1.6	2.1	1.5	1.9
Sodium	40	42	45	48	55	43	44	6.5
Sulfate	.	14	.	15	.	14.8	.	10

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-655							GW-683
	BG							EXP
	03/09/91	06/15/91		09/05/91		11/05/91		05/24/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	1.1	0.27	13	1.8	2.4	0.026	0.026
Antimony	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.22	0.099	0.34	0.13	0.21	0.11	0.09
Beryllium	<0.0003	0.00047	<0.0003	<0.003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.0046	<0.004	0.0089	<0.04	<0.004	0.016	0.036	0.049
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.03	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.016	<0.01	0.029	<0.01	0.034	<0.01	<0.01
Chromium	<0.61	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.007	<0.004	<0.04	<0.004	0.013	<0.004	<0.004
Iron	0.21	2	0.37	10	1.4	4.6	0.28	0.021
Lead (AAS)	<0.004	0.013	<0.004	0.018	<0.004	0.0096	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01
Nickel	0.012	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05
Silicon	11	12	8.9	.	.	.	.	3.2
Silver	<0.006	<0.006	<0.006	<0.06	<0.006	<0.006	<0.006	<0.006
Strontium	0.023	0.028	0.019	0.038	0.02	0.022	0.017	0.12
Thorium	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.039
Vanadium	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.015	0.035	0.041	0.0069	0.027	0.012	0.0059
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	33	.	34	.	35	.	159
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	4.5	4.4	3.5	5.2	3.4	4.5	3.4	51
Chloride	.	<1	.	<1	.	<1	.	8
Fluoride	.	0.3	.	0.2	.	0.2	.	0.14
Magnesium	5.1	6.5	5.4	9.2	6.1	6.4	5	15
Manganese	0.05	0.069	0.053	0.097	0.049	0.075	0.042	0.0013
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.9	1.5	1.9	<6	2.3	2	1.9	1.4
Sodium	6.9	5.8	6.1	5.8	6.2	6	6.1	5.4
Sulfate	.	9	.	9	.	9.3	.	16

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-683					GW-684		
	EXP					EXP		
	05/24/91	09/19/91		12/12/91		05/30/91		09/19/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.052	0.17	0.029	0.22	<0.02	0.23	0.037	0.12
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.092	0.14	0.14	0.083	0.082	0.092	0.092	0.12
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.045	0.66	0.15	0.063	0.056	1.4	0.08	0.16
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.005	0.0062	<0.004	0.005	0.0086	<0.004	0.0065
Iron	0.013	0.18	0.012	0.26	0.015	0.14	0.015	0.26
Lead (AAS)	<0.004	0.0064	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.7	.	.	.	.	4.7	4	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.12	0.16	0.17	0.079	0.079	0.14	0.14	0.2
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.043	0.088	0.082	0.032	0.032	0.038	0.036	0.081
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0047	0.012	0.0057	0.0077	0.0062	0.02	0.015	0.013
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	202	.	141	.	160	.	182
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	60	88	83	48	48	56	56	77
Chloride	.	21	.	5.2	.	12	.	28
Fluoride	.	0.2	.	0.2	.	0.2	.	0.2
Magnesium	15	23	22	14	14	13	13	19
Manganese	0.0016	0.0051	0.0036	0.011	0.0027	0.012	0.0096	0.017
Nitrate-N	.	19.64	.	6.4	.	9	.	18.89
Potassium	1.6	2.5	2.5	2	2.3	12	12	21
Sodium	5.3	13	11	4.4	4.5	7.5	5.4	13
Sulfate	.	21	.	15.2	.	17	.	20

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-584			GW-685				
	EXP			EXP				
	09/19/91	12/12/91		06/01/91		09/18/91		12/12/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.023	0.089	0.023	0.69	0.09	0.033	0.042	0.062
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.12	0.08	0.082	0.16	0.13	0.083	0.081	0.091
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.17	0.053	0.054	0.042	0.1	0.045	0.47	0.056
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0055	0.006	<0.004	0.0044	<0.004	<0.004
Iron	0.015	0.13	0.0057	3.3	0.025	1.8	0.68	0.29
Lead (AAS)	<0.004	<0.004	<0.004	0.014	<0.004	0.0077	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	5	5	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.2	0.095	0.098	0.12	0.13	0.094	0.094	0.099
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.077	0.032	0.025	0.001	0.001	0.001	0.002	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0048	0.0029	0.0041	0.029	0.0041	0.011	0.0077	0.0091
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	124	.	246	.	249	.	245
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	76	35	36	80	78	77	76	71
Chloride	.	11.5	.	30	.	29	.	31
Fluoride	.	0.2	.	<0.1	.	0.1	.	0.2
Magnesium	19	11	11	24	25	24	24	20
Manganese	0.01	0.0074	0.0052	0.46	0.15	0.11	0.096	0.086
Nitrate-N	.	6.32	.	2	.	1.95	.	2.74
Potassium	21	23	23	1.8	1.7	1.3	1.3	1.9
Sodium	13	5.5	5.6	16	17	15	15	15
Sulfate	.	13.9	.	18	.	18	.	20

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-685	GW-694						GW-695
Location	EXP	EXP						EXP
Date Sampled	12/12/91	06/19/91		09/13/91		11/22/91		06/18/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.042	0.037	0.027	0.035	0.074	<0.02	0.17
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.091	0.092	0.091	0.23	0.22	0.18	0.17	0.013
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.026	0.12	0.096	0.53	0.54	0.15	0.15	0.033
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.015
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.016
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0092	0.0061
Iron	0.0093	0.82	0.7	2.2	2.1	0.6	0.29	0.4
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.092
Nickel	<0.01	<0.01	<0.01	<0.01	0.013	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	3.7	4.3	.	.	.	.	5.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.17	0.17	0.38	0.38	0.29	0.26	0.065
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.047	0.049	0.23	0.23	0.139	0.148	0.004
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0066	0.0048	0.005	0.014	0.0089	0.031	0.014	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	206	.	288	.	207	.	152
Alkalinity-CO3	.	<1	.	<1	.	<1	.	6
Calcium	73	81	81	140	140	110	100	25
Chloride	.	11	.	47	.	27	.	6
Fluoride	.	0.3	.	0.4	.	0.5	.	0.2
Magnesium	21	18	18	26	26	22	20	12
Manganese	0.066	0.032	0.03	0.98	0.98	0.11	0.094	0.0076
Nitrate-N	.	12	.	36.66	.	40.23	.	1
Potassium	1.6	1.7	1.6	6.3	6.4	3.6	4.2	16
Sodium	15	8.3	6.9	30	29	15	15	52
Sulfate	.	23	.	36	.	33	.	63

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-695					GW-703		
	EXP					EXP		
	06/18/91	09/13/91		11/22/91		06/18/91		09/11/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.03	1.3	0.031	0.1	<0.02	0.033	0.022	0.04
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.012	0.015	0.014	0.014	0.012	0.042	0.037	0.044
Beryllium	<0.0003	0.00038	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.062	0.048	0.043	0.034	0.03	0.051	0.098	0.081
Calcium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	0.013	0.013	0.014	0.047	0.033	<0.01	<0.01	<0.01
Chromium	0.017	0.021	0.02	0.043	0.028	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0056	0.0062	<0.004	<0.004	<0.004	0.0066	<0.004	0.012
Iron	0.0095	3.1	0.0076	0.37	<0.005	2.1	0.0077	2.5
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	0.099	0.072	0.053	0.044	0.036	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.9	.	.	.	.	4.1	3.9	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.059	0.076	0.058	0.06	0.055	0.16	0.17	0.15
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.004	0.008	0.006	0.009	0.008	0.001	0.001	0.001
Vanadium	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.01	0.012	0.0092	0.0065	0.0043	0.013	0.0057	0.0079
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	144	.	149	.	158	.	166
Alkalinity-CO3	.	2	.	20	.	<1	.	<1
Calcium	17	59	22	31	17	33	32	46
Chloride	.	6	.	6	.	7	.	7
Fluoride	.	0.2	.	0.3	.	0.3	.	0.3
Magnesium	12	15	14	12	12	20	20	22
Manganese	<0.001	0.028	0.0014	0.011	<0.001	0.027	0.023	0.032
Nitrate-N	.	1.57	.	1.66	.	6	.	5.73
Potassium	17	12	13	15	13	3.6	4.2	1.7
Sodium	52	49	37	45	37	4.9	5	4.7
Sulfate	.	37	.	33	.	12	.	12

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-703			GW-704				
	EXP			EXP				
	09/11/91	11/18/91		06/20/91		09/12/91		11/19/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.023	0.042	<0.02	0.042	<0.02	0.19	<0.02	0.1
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.04	0.051	0.045	0.062	0.06	0.054	0.052	0.063
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.033	0.022	0.053	0.013	0.016	0.05	0.056	0.045
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.014	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.017	6.5	0.016	0.98	0.088	2.9	0.26	8.1
Lead (AAS)	<0.004	<0.004	<0.004	0.015	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	3.6	3.8	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.14	0.18	0.17	0.3	0.3	0.28	0.28	0.3
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.01	0.0073	0.0052	<0.002	<0.002	0.012	0.0063	0.012
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	164	.	152	.	177	.	180
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	44	53	47	35	35	52	51	53
Chloride	.	7.4	.	14	.	13	.	16
Fluoride	.	0.3	.	0.3	.	0.2	.	0.2
Magnesium	21	26	25	24	26	24	24	26
Manganese	0.012	0.068	0.01	0.035	0.034	0.1	0.09	0.13
Nitrate-N	.	6.2	.	11	.	9.19	.	9.55
Potassium	1.8	3.3	3.2	1	1.2	1.5	1.3	1.4
Sodium	4.5	5	5.2	8.8	8.4	7.5	8.1	8.1
Sulfate	.	13.1	.	17	.	18	.	18

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-704	GW-705						
	EXP	EXP						
	11/19/91	06/20/91		09/10/91		05/11/91	11/17/91	
	DIS	TOT	DIS	TOT	DIS	TOT	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	2.4	0.92	0.72	0.025	.	0.22	0.19
Antimony	<0.05	<0.5	<0.05	<0.05	<0.05	.	<0.05	<0.05
Arsenic	<0.05	<0.5	<0.05	<0.05	<0.05	.	<0.05	<0.05
Barium	0.056	0.066	0.008	0.02	0.0055	.	0.0078	0.0068
Beryllium	<0.0003	<0.003	<0.0003	<0.0003	<0.0003	.	<0.0003	<0.0003
Boron	0.046	2.9	2.5	2.2	2.2	.	2.3	2.4
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	.	<0.002	<0.002
Cadmium	<0.003	<0.03	<0.003	<0.003	<0.003	.	<0.003	<0.003
Chromium (AAS)	<0.01	0.046	<0.01	<0.01	<0.01	.	<0.01	<0.01
Chromium	<0.01	<0.1	<0.01	<0.01	<0.01	.	<0.01	<0.01
Cobalt	<0.005	<0.05	<0.005	0.005	<0.005	.	<0.005	<0.005
Copper	<0.004	0.7	0.054	0.042	<0.004	.	0.0087	0.012
Iron	0.48	230	14	16	0.033	.	3.3	2.6
Lead (AAS)	<0.004	0.25	<0.014	0.0082	<0.004	.	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	.	<0.0002	<0.0002
Molybdenum	<0.01	<0.1	0.018	<0.01	<0.01	.	<0.01	<0.01
Nickel	<0.01	0.19	<0.01	<0.01	<0.01	.	<0.01	<0.01
Selenium	<0.05	0.67	0.053	<0.05	<0.05	.	<0.05	<0.05
Silicon	.	5	2.9	.	.	.	.	.
Silver	<0.006	<0.06	<0.006	<0.006	<0.006	.	<0.006	<0.006
Strontium	0.3	0.54	0.19	0.35	0.31	.	0.29	0.25
Thorium	<0.2	<2	<0.2	<0.2	<0.2	.	<0.2	<0.2
Uranium (Fluor)	<0.001	0.007	0.001	<0.001	<0.001	.	<0.001	<0.001
Vanadium	<0.005	<0.05	<0.005	<0.005	<0.005	.	<0.005	<0.005
Zinc	0.0036	0.52	0.033	0.041	0.011	.	0.012	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	248	.	274	.	.	291	.
Alkalinity-CO3	.	42	.	38	.	.	24	.
Calcium	53	33	2.7	4.2	1.9	.	2.4	2.2
Chloride	.	54	.	76	.	.	145	.
Fluoride	.	3.5	.	3.2	.	.	3.2	.
Magnesium	26	3.1	0.76	1	0.76	.	0.73	0.62
Manganese	0.089	3.5	0.21	0.17	0.0093	.	0.037	0.03
Nitrate-N	.	0.4	.	0.36	.	.	<1.1	.
Potassium	1.7	<6	3.1	3.1	2.9	.	2.8	3
Sodium	8.2	230	230	230	240	.	230	220
Sulfate	.	88	.	97	.	.	230	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-706						GW-710	
	EXP						EXP	
	06/20/91		09/13/91		11/19/91		12/05/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.049	0.045	0.027	<0.02	<0.02	<0.02	0.044	<0.04
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
Barium	0.078	0.075	0.23	0.23	0.26	0.25	0.007	0.6062
Beryllium	0.0026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	-0.0006	-0.0006
Boron	0.024	0.04	0.43	0.42	0.28	0.27	0.3	0.3
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006	<0.006
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
Copper	0.012	<0.004	<0.004	<0.004	<0.004	0.0049	<0.008	<0.008
Iron	0.37	0.09	12	12	1.7	1.5	14	12
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
Nickel	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.02	<0.02
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
Silicon	4.4	4.6	.	.	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.01	<0.01
Strontium	0.15	0.15	0.38	0.38	0.47	0.45	8.9	9.1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4
Uranium (Fluor)	0.009	0.007	0.11	0.11	0.13	0.17	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
Zinc	0.0063	0.0023	0.01	0.0088	0.0084	0.0082	0.026	<0.004
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	170	.	303	.	268	.	167	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	36	36	140	140	160	160	600	590
Chloride	13	.	52	.	45	.	577	.
Fluoride	0.1	.	0.2	.	0.2	.	1.6	.
Magnesium	19	19	30	30	31	31	220	230
Manganese	0.011	0.096	0.39	0.39	0.15	0.14	0.14	0.13
Nitrate-N	10	.	36.26	.	84.15	.	<2	.
Potassium	4.8	5	9.2	8.9	6.8	7.2	13	12
Sodium	5.9	6	27	27	25	24	350	350
Sulfate	14	.	37	.	34	.	46	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-711		GW-712	
	EXP		EXP	
	12/10/91		12/09/91	
	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.
	.	.	.	.
Aluminum	0.024	<0.02	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05
Barium	0.0091	0.0085	0.099	0.098
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003
Boron	1	1	0.14	0.13
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005
Copper	0.0042	<0.004	<0.004	<0.004
Iron	15	14	5.4	4.9
Lead (AAS)	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006
Strontium	12	12	2.7	2.7
Thorium	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	<0.002	0.0066	0.003
	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.
	.	.	.	.
	.	.	.	.
Alkalinity-HCO3	138	.	164	.
Alkalinity-CO3	<1	.	<1	.
Calcium	500	510	100	96
Chloride	1602	.	45	.
Fluoride	1.6	.	0.6	.
Magnesium	230	220	46	44
Manganese	0.13	0.13	0.065	0.061
Nitrate-N	<23	.	<2.2	.
Potassium	22	21	3.6	3.6
Sodium	950	920	39	39
Sulfate	2217	.	415	.

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	BCK-00.63							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.14	0.062	0.085	0.02	0.055	0.038	0.34	0.048
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.048	0.046	0.054	0.053	0.066	0.065	0.044	0.04
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.076	0.076	0.059	0.057	0.31	0.29	0.06	0.062
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.049	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0066	0.0056	<0.004	0.0044	<0.004	<0.004	<0.004	<0.004
Iron	0.13	0.0098	0.16	<0.005	0.035	0.048	0.39	0.05
Lead (AAS)	<0.004	<0.004	0.0044	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.7	3.5	2.3	3	3.4	3.2	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.061	0.061	0.074	0.074	0.095	0.094	0.051	0.05
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.02	0.02	0.02	0.018	0.036	0.04	0.042	0.049
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	0.0092	0.017	<0.002	0.023	<0.002	0.0067	0.0032
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	95	.	108	.	147	.	77	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	30	30	30	32	52	51	27	26
Chloride	4	.	4	.	<10	.	3	.
Fluoride	<0.1	.	0.1	.	0.2	.	<0.1	.
Magnesium	8.1	8	9.2	9.2	14	14	6.8	6.6
Manganese	0.018	0.015	0.021	0.0094	0.0089	0.011	0.019	0.011
Nitrate-N	3	.	4	.	6.8	.	1.57	.
Potassium	1.2	1.1	1.2	1.3	2	1.8	1.5	1.3
Sodium	3.2	3.4	3.3	3.4	4.7	4.7	3	3.1
Sulfate	10	.	10	.	13	.	10	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	BCK-04.55							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)								
Aluminum	0.096	0.028	0.067	0.03	0.058	0.062	0.46	0.057
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.05	0.065	<0.05	<0.05	<0.05	<0.05
Barium	0.052	0.049	0.055	0.054	0.068	0.067	0.046	0.041
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.06	0.11	0.066	0.069	0.29	0.28	0.077	0.07
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0046	<0.004	<0.004	0.021	<0.004	<0.004
Iron	0.11	0.02	0.071	<0.005	0.036	0.052	0.4	0.041
Lead (AAS)	<0.004	<0.004	0.0055	0.0071	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	1.3	4.2	3	3.3	3.2	3.4	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.067	0.066	0.075	0.076	0.093	0.093	0.056	0.053
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.024	0.021	0.023	0.022	0.04	0.04	0.056	0.066
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.017	0.018	0.0061	0.0034	0.04	0.03	0.0063	0.0071
MAJOR IONS (mg/L)								
Alkalinity-HCO3	103	.	112	.	151	.	82	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	33	33	34	34	51	50	30	28
Chloride	4	.	5	.	7	.	3	.
Fluoride	<0.1	.	0.1	.	0.2	.	<0.1	.
Magnesium	9.5	9	10	10	14	14	7.8	7.3
Manganese	0.018	0.013	0.025	0.0071	0.013	0.017	0.019	0.0073
Nitrate-N	3	.	5	.	6.6	.	1.93	.
Potassium	1.2	1.1	1.2	1.2	2.1	1.5	1.9	1.5
Sodium	3.5	3.6	3.1	3.2	4.6	4.6	3.3	3.2
Sulfate	10	.	10	.	12	.	11	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	BCK-09.40							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.14	0.047	0.086	0.12	0.049	0.094	0.23	0.046
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	<0.05	<0.05
Barium	0.088	0.087	0.093	0.29	0.11	0.12	0.08	0.073
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.37	0.36	0.59	0.12	1.4	1.4	0.18	0.17
Cadmium (AAS)	<0.002	<0.002	<0.002	0.0051	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.0048	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.01	0.012	<0.01	0.026	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0064	<0.004	0.0067	<0.004	<0.004	<0.004	<0.004
Iron	0.16	0.017	0.11	<0.005	0.059	0.11	0.29	0.04
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	0.00021	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.026	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.7	3.6	3.3	2.9	3.6	3.8	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.16	0.16	0.17	0.51	0.22	0.22	0.14	0.13
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.098	0.104	0.081	0.151	0.1	0.1	0.12	0.24
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.01	0.0092	0.019	0.0088	0.0029	0.013	0.01	0.0094
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	120	.	125	.	160	.	108	.
Alkalinity-CO3	<1	.	<1	.	4	.	<1	.
Calcium	58	59	62	180	86	86	51	48
Chloride	11	.	14	.	<100	.	7	.
Fluoride	0.4	.	0.3	.	0.4	.	0.2	.
Magnesium	10	10	11	20	15	15	9.7	9.3
Manganese	0.15	0.15	0.1	1.1	0.025	0.039	0.058	0.029
Nitrate-N	13	.	15	.	36	.	7.47	.
Potassium	1.9	1.8	2.1	3.4	2.9	3.1	2.2	2.3
Sodium	7	7.1	8.1	30	12	13	6.8	6.3
Sulfate	23	.	20	.	27	.	29	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	BCK-11.97							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.25	0.28	0.14	0.048	0.14	0.13	0.17	0.063
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.056	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.34	0.34	0.3	0.091	0.27	0.26	0.25	0.24
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.048	0.047	0.081	0.57	0.12	0.1	0.056	0.053
Cadmium (AAS)	0.0086	0.0087	0.005	<0.002	<0.002	0.0039	0.0061	0.0056
Cadmium	0.0083	0.0071	0.0036	<0.003	0.0053	<0.003	0.0057	0.0047
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.011	0.01	<0.01	0.061	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0062	0.008	0.0043	0.02	0.012	<0.004	<0.004	<0.004
Iron	0.043	0.051	0.013	0.015	0.043	0.043	0.087	0.041
Lead (AAS)	<0.004	<0.004	<0.004	0.0099	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.034	0.041	0.024	0.033	0.024	0.016	0.018	0.016
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.4	3.3	3.1	3.2	2.9	2.8	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.5	0.51	0.51	0.17	0.39	0.39	0.37	0.36
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.166	0.185	0.147	0.083	0.15	0.15	0.13	0.15
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0079	0.018	<0.002	0.0067	0.036	0.015	0.0082	0.015
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	211	.	197	.	144	.	177	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	170	170	180	62	140	130	140	140
Chloride	38	.	43	.	26	.	31	.
Fluoride	0.9	.	0.6	.	0.8	.	0.6	.
Magnesium	21	21	20	11	17	16	17	17
Manganese	1.7	1.8	1.1	0.087	0.58	0.57	1	0.94
Nitrate-N	74	.	73	.	66	.	57	.
Potassium	3.5	3.4	3.5	2	5.7	5.3	3.7	3.2
Sodium	27	26	31	8	29	30	29	27
Sulfate	51	.	51	.	43	.	49	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location . Date Sampled	NT-13							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.38	0.059	0.42	0.027	5.8	3.1	0.87	0.056
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.038	0.039	0.044	0.034	0.16	0.17	0.044	0.033
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	0.00043	<0.0003	<0.0003	<0.0003
Boron	0.046	0.013	0.062	<0.004	0.022	0.041	0.031	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.017	0.014	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	0.0043	<0.004	<0.004	<0.004
Iron	1	1	1.8	0.12	30	24	0.91	0.1
Lead (AAS)	<0.004	<0.004	0.007	<0.004	0.0084	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	0.00021
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	0.066	<0.05	<0.05	<0.05
Silicon	4.7	5	4.4	4.3	13	9.4	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.042	0.042	0.055	0.054	0.099	0.099	0.03	0.028
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	<0.005
Zinc	0.007	0.017	0.0082	0.0051	0.034	0.071	0.016	0.014
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	43	.	59	.	116	.	23	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	15	15	16	17	35	34	11	11
Chloride	1	.	1	.	<1	.	<1	.
Fluoride	<0.1	.	<0.1	.	0.1	.	<0.1	.
Magnesium	2.9	2.8	3.5	3.5	6.6	6.1	2.3	2
Manganese	0.67	0.69	0.94	0.61	5.7	6.6	0.17	0.11
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.2	1.2	1.4	1.3	3.1	2.1	2	1.6
Sodium	3	3.1	3.4	3.1	4.5	4.6	2.6	2.6
Sulfate	11	.	9	.	4	.	15	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	SS-1							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.15	0.062	0.86	0.042	0.04	0.04	0.058	0.026
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.095	0.095	0.094	0.086	0.11	0.11	0.097	0.096
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.06	0.067	0.032	<0.004	0.04	0.048	0.068	0.068
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.0021	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.011	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	0.014	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0086	0.0084	0.0073	0.0046	<0.004	<0.004	<0.004	<0.004
Iron	0.15	0.017	0.89	<0.005	0.03	0.0052	0.065	<0.005
Lead (AAS)	<0.004	<0.004	0.026	<0.004	<0.0042	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.8	6.4	5.9	4.9	5.7	5.6	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.53	0.53	0.5	0.49	0.53	0.53	0.48	0.47
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.029	0.033	0.029	0.031	0.04	0.04	0.047	0.043
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	0.0044	0.018	<0.002	0.066	0.023	0.015	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	344	.	261	.	329	.	344	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	200	200	200	190	210	220	200	200
Chloride	46	.	49	.	65	.	52	.
Fluoride	0.2	.	0.1	.	0.2	.	0.2	.
Magnesium	18	17	17	17	20	20	18	18
Manganese	0.053	0.056	0.16	0.0033	0.015	0.022	0.023	0.019
Nitrate-N	45	.	43	.	57	.	41	.
Potassium	4	4.1	3.7	3.4	4.5	4.5	4.2	4.1
Sodium	16	17	14	14	23	23	23	21
Sulfate	14	.	48	.	46	.	81	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	SS-4							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.19	0.059	0.076	0.068	0.074	0.14	0.91	0.024
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.092	0.09	0.088	0.089	0.13	0.13	0.093	0.076
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.045	0.046	0.015	0.014	0.13	0.15	0.035	0.045
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.011	<0.01	<0.01	0.071	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0044	<0.004	0.0066	<0.004	<0.004	0.0075	0.0045	<0.004
Iron	0.12	0.0074	<0.005	0.022	0.035	0.11	1.5	0.014
Lead (AAS)	<0.004	<0.004	<0.004	0.0078	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.031	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.1	4	3.6	3.4	3.9	3.6	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.13	0.13	0.14	0.15	0.24	0.25	0.098	0.093
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.04	0.038	0.041	0.046	0.09	0.11	0.067	0.048
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.008	0.0056	0.0069	<0.002	0.013	0.0044	0.02	0.011
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	207	.	199	.	215	.	168	.
Alkalinity-CO3	<1	.	<1	.	4	.	<1	.
Calcium	71	70	75	74	100	110	55	53
Chloride	13	.	15	.	<100	.	8	.
Fluoride	0.2	.	0.2	.	0.3	.	0.2	.
Magnesium	19	19	18	18	23	23	16	15
Manganese	0.052	0.0053	0.0099	0.004	0.0075	0.027	0.57	0.0063
Nitrate-N	10	.	12	.	37	.	4.77	.
Potassium	1.7	1.8	1.6	1.7	2.5	2.3	2.4	1.8
Sodium	7.4	7.8	7.1	7.2	13	13	6.4	5.8
Sulfate	18	.	18	.	32	.	15	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location . Date Sampled	SS-5							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.081	0.022	0.067	0.03	0.044	0.027	0.26	0.024
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	0.059	<0.05	<0.05	<0.05	<0.05
Barium	0.058	0.058	0.06	0.062	0.095	0.095	0.043	0.041
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.025	0.026	<0.004	0.011	0.074	0.066	0.017	0.018
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	0.011	0.034	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0078	0.0061	<0.004	<0.004	<0.004	<0.004	0.0073
Iron	0.071	0.025	0.0063	<0.005	0.033	0.019	0.24	0.025
Lead (AAS)	<0.004	<0.004	0.012	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.6	3.5	3.5	3.2	3.5	3.3	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.074	0.073	0.083	0.086	0.15	0.15	0.032	0.032
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.032	0.029	0.039	0.037	0.061	0.064	0.007	0.006
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0061	0.01	0.0048	0.0048	0.02	0.011	0.0083	0.019
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	166	.	138	.	163	.	101	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	40	40	40	39	70	69	27	27
Chloride	8	.	6	.	<100	.	3	.
Fluoride	0.2	.	0.2	.	0.3	.	<0.1	.
Magnesium	13	13	13	14	16	16	10	11
Manganese	0.0063	0.0049	0.0063	0.0027	0.0027	0.0031	0.016	0.0059
Nitrate-N	5	.	8	.	27	.	1.36	.
Potassium	1.1	1.2	1.1	1.1	1.7	1.8	1.1	0.75
Sodium	3.9	4.1	3.5	3.8	7.6	7.4	2.3	2.5
Sulfate	12	.	11	.	20	.	7	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	SS-6							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.075	0.034	0.051	0.027	0.043	0.027	0.087	0.037
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.027	0.028	0.026	0.026	0.026	0.026	0.023	0.021
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.018	0.013	<0.004	0.031	0.01	<0.004	0.02	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.024	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0044	<0.004	<0.004	0.0046	0.0084	<0.004	<0.004
Iron	0.17	0.032	0.031	<0.005	0.27	0.027	0.12	0.035
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.4	3.2	3.2	3.3	3.4	3.1	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.019	0.019	0.019	0.019	0.022	0.021	0.02	0.019
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.027	0.035	0.078	0.0096	0.036	0.036	0.047	0.046
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	94	.	105	.	142	.	63	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	21	21	22	21	32	32	18	17
Chloride	<10	.	<1	.	<1	.	<1	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	10	9.9	12	12	16	16	6.7	6.3
Manganese	0.031	0.029	0.024	0.019	0.0051	0.0069	0.024	0.016
Nitrate-N	<10	.	<0.2	.	<0.2	.	<0.2	.
Potassium	0.63	<0.6	0.62	0.68	1	1	0.98	<0.6
Sodium	0.6	0.61	0.2	0.44	0.47	0.44	0.56	0.63
Sulfate	<10	.	3	.	3	.	6	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	SS-8							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.093	0.068	0.076	0.037	0.028	0.035	0.19	0.058
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	0.052	<0.05	<0.05	<0.05	<0.05
Barium	0.034	0.039	0.033	0.035	0.046	0.047	0.029	0.027
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.016	0.016	<0.004	0.008	0.02	0.0072	0.0081	0.021
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.012	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.12	0.12	0.02	<0.005	0.02	0.022	0.26	0.041
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.016	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.6	4.8	3.4	0.75	3.7	3.8	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.028	0.029	0.028	0.03	0.037	0.038	0.018	0.017
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0084	0.018	<0.002	0.0088	0.011	0.1	0.016	0.0072
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	107	.	112	.	146	.	79	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	27	27	26	26	38	37	20	20
Chloride	<10	.	2	.	2	.	2	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	9.1	9.2	9.9	10	14	14	8.1	8
Manganese	0.12	0.11	0.0027	0.0028	0.0044	0.0051	0.0093	0.0031
Nitrate-N	<10	.	0.4	.	0.3	.	<0.2	.
Potassium	0.8	0.82	0.7	0.92	0.94	1.1	0.77	0.62
Sodium	1.8	2	1.2	1.5	1.3	1.4	2	1.9
Sulfate	<10	.	2	.	2	.	4	.

VOLATILE ORGANIC COMPOUNDS

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-005		GW-013				GW-018	
	OLF		OLF				BG	
	01/26/91	05/09/91	01/28/91	05/02/91	08/19/91	10/17/91	03/21/91	06/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	16
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	3	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-037		GW-040	GW-042				GW-043
Location	BG		BG	BG				OLF
Date Sampled	03/09/91	06/14/91	11/12/91	03/05/91	06/11/91	09/05/91	11/04/91	01/22/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	17	0.8	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.4	G	G	G	1	G
1,1,1-Trichloroethane	G	G	G	G	10	4	0.9	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-043			GW-044				GW-052
	OLF			OLF				BG
	05/01/91	08/12/91	10/15/91	01/22/91	05/01/91	08/09/91	10/14/91	03/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	15	4	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	3	N
Methylene chloride	G	G	G	G	G	G	1	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	1	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.7	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-053				GW-054			
	BG				BG			
	03/19/91	06/19/91	09/26/91	12/22/91	02/27/91	05/31/91	09/15/91	11/24/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	0.8	1	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	3	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	9	21	14	10	G	G	G	G
1,2-Dichloroethane	G	G	1	1	G	G	G	G
1,1-Dichloroethene	G	11	0.8	G	G	G	G	G
1,2-Dichloroethene	20	G	30	21	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	4	N	N	N	N	N
Methylene chloride	G	18	0.7	14	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	0.9	0.9	G	0.5	G	G
Toluene	G	G	1	G	G	G	2	G
1,1,1-Trichloroethane	G	1	0.9	G	G	0.7	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	4	4	3	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	11	17	25	6	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-056				GW-057		GW-058	
	BG				BG		BG	
	02/26/91	05/24/91	09/15/91	12/11/91	02/26/91	06/19/91	03/19/91	06/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.9	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	2	2	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	16	G	G	G	17	G	17
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	2	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	0.6	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-058		GW-061				GW-063	
	BG		BG				OLF	
	09/20/91	12/17/91	03/19/91	06/19/91	09/26/91	12/21/91	02/08/91	05/12/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	1	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	0.8	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	4	N	N	N
Methylene chloride	G	G	G	17	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	0.6	G	G	G	1	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	0.6	G	G	0.8	G	33	21
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-063		GW-064				GW-069	
Location	OLF		OLF				BG	
Date Sampled	08/13/91	10/23/91	02/20/91	05/17/91	08/14/91	10/23/91	03/19/91	06/17/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	2	G	4	3	4	3	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	1	G	3	2	3	3	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	9	6	9	12	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	16	G	G	G	15
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	1	G	G
Toluene	G	1	G	G	G	1	G	G
1,1,1-Trichloroethane	G	G	1	0.9	1	1	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	38	22	89	82	110	110	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-069		GW-071		GW-072		GW-074	
	BG		BG		BG		OLF	
	09/20/91	12/16/91	03/24/91	06/21/91	03/19/91	06/18/91	01/30/91	05/10/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	29	M	N	N	N	N
Benzene	G	G	130	420	G	G	G	G
Bromodichloromethane	G	G	N	Z	G	G	G	G
Bromoform	G	G	N	Z	G	G	G	G
Bromomethane	N	N	V	M	N	N	N	N
2-Butanone	N	N	V	M	N	N	N	N
Carbon disulfide	G	G	N	Z	G	G	G	G
Carbon tetrachloride	G	G	N	Z	G	G	G	G
Chlorobenzene	G	G	N	Z	G	G	G	G
Chlorodibromomethane	G	G	N	Z	G	G	G	G
Chloroethane	N	N	V	M	N	N	N	N
Chloroform	G	G	2	Z	G	G	G	G
Chloromethane	N	N	V	M	N	N	N	N
1,1-Dichloroethane	G	G	430	820	9	19	G	G
1,2-Dichloroethane	G	G	N	Z	G	G	G	G
1,1-Dichloroethene	G	G	14	16	G	G	G	G
1,2-Dichloroethene	G	G	43	42	G	G	G	G
1,2-Dichloropropane	G	G	N	Z	G	G	G	G
cis-1,3-Dichloropropene	G	G	N	Z	G	G	G	G
trans-1,3-Dichloropropene	G	G	N	Z	G	G	G	G
Ethylbenzene	G	G	N	Z	G	G	G	G
2-Hexanone	N	N	V	M	N	N	N	N
4-Methyl-2-pentanone	N	N	V	M	N	N	N	N
Methylene chloride	G	G	N	Z	G	3	G	G
Styrene	G	G	N	Z	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	N	Z	G	G	G	G
Tetrachloroethene	G	G	400	480	G	G	G	G
Toluene	G	G	N	Z	G	G	0.7	G
1,1,1-Trichloroethane	G	G	110	330	G	0.9	G	G
1,1,2-Trichloroethane	G	G	N	Z	G	G	G	G
Trichloroethene	G	G	410	490	G	G	G	G
Vinyl acetate	N	N	V	M	N	N	N	N
Vinyl chloride	N	N	V	M	N	N	N	N
Xylenes	G	G	N	Z	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-074		GW-075				GW-076	
	OLF		OLF				OLF	
	08/26/91	10/21/91	01/28/91	05/10/91	08/27/91	10/25/91	01/26/91	05/09/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	1	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-077		GW-078		GW-079		GW-080	
	BG		BG		BG		BG	
	02/27/91	06/05/91	02/27/91	06/05/91	02/23/91	06/04/91	02/23/91	05/24/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	16
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-080		GW-082				GW-083	
	BG		BG				BG	
	09/07/91	11/06/91	03/09/91	06/11/91	09/25/91	12/21/91	03/09/91	06/11/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	72	51	G	27	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	1	N	N	N	4	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	1	G	G	1	G	G	G
1,1,1-Trichloroethane	G	G	G	G	0.4	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	2	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	5	N	N
Xylenes	G	G	G	G	G	1	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-083		GW-084				GW-085	
	BG		OLF				OLF	
	09/14/91	12/27/91	01/22/91	05/01/91	08/09/91	10/14/91	01/26/91	05/09/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	3	N	N
Methylene chloride	G	7	G	G	0.5	1	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	1	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-085		GW-086		GW-089			
	OLF		OLF		BG			
	08/13/91	10/15/91	01/26/91	05/09/91	03/05/91	06/11/91	09/07/91	11/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	0.7
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	11	6	11	19
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	7	5	9	13
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	1	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	0.6	G	G	G	G	G	1
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	3	2	3	3
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-095				GW-101		GW-115	
	BG				S3		S3	
	03/19/91	06/18/91	09/23/91	12/16/91	01/12/91	04/14/91	01/05/91	04/03/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	16	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.6	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-115		GW-117				GW-118	
	S3		BG				BG	
	07/01/91	10/01/91	03/25/91	06/17/91	09/23/91	12/19/91	03/25/91	06/17/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	25	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	3	2	1	1	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	2	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	3	N	N	N	N	N	N
Methylene chloride	G	G	G	16	0.7	G	G	15
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	20	14	12	9	G	G
Toluene	G	1	G	G	1	G	G	G
1,1,1-Trichloroethane	0.9	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	5	4	4	3	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-118		GW-119				GW-122	
	BG		BG				S3	
	09/23/91	12/19/91	03/25/91	06/17/91	09/23/91	12/19/91	01/12/91	04/13/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	13	N	N	N	N	N	N
Benzene	0.7	2	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	0.6	G	5	5	6	5	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	2	N	N	N	3	N	4	N
Methylene chloride	G	G	G	16	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	2	2	3	2	1	G
Toluene	2	2	G	G	1	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	1	G	G	G
Vinyl acetate	2	6	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-123				GW-125			
	S3				S3			
	03/25/91	04/06/91	07/12/91	10/04/91	03/25/91	04/06/91	07/12/91	10/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	12	N	N	N	13	N	N	33
Benzene	G	G	0.5	0.5	G	G	G	0.8
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	0.8	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	16	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.9	2	G	G	G	2
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-162		GW-163		GW-164		GW-209	
Location	BG		BG		BG		EXP	
Date Sampled	02/28/91	06/11/91	03/02/91	06/12/91	03/05/91	06/13/91	02/23/91	06/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	17	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	2	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-210		GW-211		GW-225			
	EXP		EXP		OLF			
	02/23/91	06/05/91	02/26/91	06/06/91	02/21/91	05/17/91	08/31/91	11/01/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	21	V	V	M
Benzene	G	G	G	G	N	N	N	D
Bromodichloromethane	G	G	G	G	N	N	N	D
Bromoform	G	G	G	G	N	N	N	D
Bromomethane	N	N	N	N	V	V	V	M
2-Butanone	N	N	N	N	V	V	V	M
Carbon disulfide	G	G	G	G	N	N	N	D
Carbon tetrachloride	G	G	G	G	8	7	2	7
Chlorobenzene	G	G	G	G	N	N	N	D
Chlorodibromomethane	G	G	G	G	N	N	N	D
Chloroethane	N	N	N	N	V	V	V	M
Chloroform	G	G	G	G	4	2	4	D
Chloromethane	N	N	N	N	V	V	V	M
1,1-Dichloroethane	G	G	G	G	N	N	N	D
1,2-Dichloroethane	G	G	G	G	N	N	N	D
1,1-Dichloroethene	G	G	G	G	5	5	4	3
1,2-Dichloroethene	G	G	G	G	N	N	N	D
1,2-Dichloropropane	G	G	G	G	N	N	N	D
cis-1,3-Dichloropropene	G	G	G	G	N	N	N	D
trans-1,3-Dichloropropene	G	G	G	G	N	N	N	D
Ethylbenzene	G	G	G	G	N	N	N	D
2-Hexanone	N	N	N	N	V	V	V	M
4-Methyl-2-pentanone	N	N	N	N	V	V	V	M
Methylene chloride	G	G	G	G	N	32	N	D
Styrene	G	G	G	G	N	N	N	D
1,1,2,2-Tetrachloroethane	G	G	G	G	N	N	N	D
Tetrachloroethene	G	G	G	G	6	5	5	2
Toluene	G	G	G	G	N	N	N	6
1,1,1-Trichloroethane	G	G	G	G	3	3	2	2
1,1,2-Trichloroethane	G	G	G	G	N	N	N	D
Trichloroethene	G	G	G	G	400	350	300	370
Vinyl acetate	N	N	N	N	V	V	V	M
Vinyl chloride	N	N	N	N	V	V	V	M
Xylenes	G	G	G	G	N	N	N	D

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-226		GW-227				GW-243	
	OLF		OLF				S3	
	02/08/91	05/13/91	02/08/91	05/12/91	08/31/91	11/01/91	01/22/91	04/18/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	600	.
Benzene	1	0.4	G	G	G	G	B	.
Bromodichloromethane	G	G	G	G	G	G	B	.
Bromoform	G	G	G	G	G	G	B	.
Bromomethane	N	N	N	N	N	N	T	.
2-Butanone	N	N	N	N	N	N	T	.
Carbon disulfide	G	G	G	G	G	G	B	.
Carbon tetrachloride	G	G	G	G	G	G	B	.
Chlorobenzene	6	8	G	G	G	G	B	.
Chlorodibromomethane	G	G	G	G	G	G	B	.
Chloroethane	4	N	N	N	N	N	T	.
Chloroform	G	G	G	G	G	G	38	.
Chloromethane	N	N	N	N	N	N	T	.
1,1-Dichloroethane	G	3	G	G	G	G	B	.
1,2-Dichloroethane	G	G	G	G	G	G	B	.
1,1-Dichloroethene	2	1	G	G	G	G	B	.
1,2-Dichloroethene	36	29	G	G	G	G	B	.
1,2-Dichloropropane	G	G	G	G	G	G	B	.
cis-1,3-Dichloropropene	G	G	G	G	G	G	B	.
trans-1,3-Dichloropropene	G	G	G	G	G	G	B	.
Ethylbenzene	G	G	G	G	G	G	B	.
2-Hexanone	N	N	N	N	N	N	T	.
4-Methyl-2-pentanone	N	N	N	N	N	N	T	.
Methylene chloride	G	G	G	G	G	1	200	.
Styrene	G	G	G	G	G	G	B	.
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	B	.
Tetrachloroethene	G	G	G	G	G	G	5200	.
Toluene	G	G	G	G	G	G	B	.
1,1,1-Trichloroethane	G	G	G	G	G	G	25	.
1,1,2-Trichloroethane	G	G	G	G	G	G	B	.
Trichloroethene	6	3	9	9	6	7	B	.
Vinyl acetate	N	N	N	N	N	N	T	.
Vinyl chloride	N	N	N	N	N	N	T	.
Xylenes	G	G	G	G	G	G	B	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-243		GW-286		GW-287		GW-290	
	S3		BG		BG		BG	
	08/06/91	10/11/91	09/14/91	11/23/91	09/14/91	11/23/91	03/21/91	06/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	W	1300	N	N	N	N	N	N
Benzene	T	T	G	G	G	G	G	G
Bromodichloromethane	T	T	G	G	G	G	G	G
Bromoform	T	T	G	G	G	G	G	G
Bromomethane	W	W	N	N	N	N	N	N
2-Butanone	W	W	N	N	N	N	N	N
Carbon disulfide	T	T	G	G	G	G	G	G
Carbon tetrachloride	T	T	G	G	G	G	G	G
Chlorobenzene	T	T	G	G	G	G	G	G
Chlorodibromomethane	T	T	G	G	G	G	G	G
Chloroethane	W	W	N	N	N	N	N	N
Chloroform	33	T	G	G	G	G	G	G
Chloromethane	W	W	N	N	N	N	N	N
1,1-Dichloroethane	T	T	G	G	G	G	G	G
1,2-Dichloroethane	T	T	G	G	G	G	G	G
1,1-Dichloroethene	T	T	G	G	G	G	G	G
1,2-Dichloroethene	T	T	G	G	G	G	G	G
1,2-Dichloropropane	T	T	G	G	G	G	G	G
cis-1,3-Dichloropropene	T	T	G	G	G	G	G	G
trans-1,3-Dichloropropene	T	T	G	G	G	G	G	G
Ethylbenzene	T	T	G	G	G	G	G	G
2-Hexanone	W	W	N	N	N	N	N	N
4-Methyl-2-pentanone	W	W	N	N	N	N	N	N
Methylene chloride	270	310	G	G	G	1	G	G
Styrene	T	T	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	T	T	G	G	G	G	G	G
Tetrachloroethene	5900	7100	G	G	G	G	G	G
Toluene	T	35	G	G	G	G	G	G
1,1,1-Trichloroethane	T	T	G	G	G	G	G	0.8
1,1,2-Trichloroethane	T	T	G	G	G	G	G	G
Trichloroethene	T	T	G	G	G	G	G	G
Vinyl acetate	W	W	N	N	N	N	N	N
Vinyl chloride	W	W	N	N	N	N	N	N
Xylenes	T	T	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-291		GW-306		GW-307		GW-308	
Location	BG		RS		RS		RS	
Date Sampled	03/24/91	06/21/91	01/14/91	04/26/91	01/14/91	04/26/91	01/14/91	04/30/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	A	N	N	N	N	N	N	N
Benzene	V	G	G	G	G	G	G	G
Bromodichloromethane	V	G	G	G	G	G	G	G
Bromoform	V	G	G	G	G	G	G	G
Bromomethane	A	N	N	N	N	N	N	N
2-Butanone	A	N	N	N	N	N	N	N
Carbon disulfide	V	G	G	G	G	G	G	G
Carbon tetrachloride	V	G	2	1	G	4	4	1
Chlorobenzene	V	G	G	G	G	G	G	G
Chlorodibromomethane	V	G	G	G	G	G	G	G
Chloroethane	A	N	N	N	N	N	N	N
Chloroform	5	G	3	3	4	5	5	4
Chloromethane	A	N	N	N	N	N	N	N
1,1-Dichloroethane	V	G	G	G	4	3	2	2
1,2-Dichloroethane	V	G	G	G	G	G	G	G
1,1-Dichloroethene	V	G	G	G	G	G	G	G
1,2-Dichloroethene	V	11	9	8	G	16	G	11
1,2-Dichloropropane	V	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	V	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	V	G	G	G	G	G	G	G
Ethylbenzene	V	G	G	G	G	G	G	G
2-Hexanone	A	N	N	N	N	N	N	N
4-Methyl-2-pentanone	A	N	8	N	N	N	N	N
Methylene chloride	V	G	G	G	G	G	G	G
Styrene	V	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	V	G	G	G	G	G	G	G
Tetrachloroethene	640	600	G	G	1	G	1	0.7
Toluene	V	G	G	G	G	G	G	G
1,1,1-Trichloroethane	V	3	2	2	2	2	3	2
1,1,2-Trichloroethane	V	G	G	G	G	G	G	G
Trichloroethene	71	110	65	71	37	54	54	37
Vinyl acetate	A	N	N	N	N	N	N	N
Vinyl chloride	A	N	N	N	N	N	N	N
Xylenes	V	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-309				GW-310		GW-311	
	RS				RS		RS	
	01/13/91	04/25/91	08/13/91	10/23/91	01/15/91	04/30/91	01/13/91	04/26/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	N	3	3
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	1	1
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	8	8	9	6	20	34	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	6	N
Methylene chloride	G	G	G	0.6	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	1	2	2	3	3	G	G
Toluene	G	G	G	0.9	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	10	11	11	7	52	48	30	27
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-312		GW-313				GW-314	
	RS		SPI				SPI	
	01/14/91	04/26/91	01/09/91	04/09/91	07/18/91	10/05/91	01/08/91	04/08/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	1	0.8	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	120	G	5	10	140	16
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	5	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	18	5	9	13	24	22
Toluene	G	G	G	G	0.4	1	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	80	61	8	1	4	7	8	8
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-314		GW-315				GW-316	
	SPI		SPI				SPI	
	07/20/91	10/05/91	01/08/91	04/08/91	07/20/91	10/05/91	01/08/91	04/08/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	4	3	32	12	14	12	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	4	N
Methylene chloride	15	G	G	G	17	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	8	6	38	19	20	18	G	G
Toluene	G	1	G	G	G	1	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	3	2	15	6	9	6	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-316		GW-317				GW-323	
	SPI		SPI				SPI	
	07/18/91	10/05/91	01/06/91	04/06/91	07/10/91	10/03/91	01/06/91	04/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	22	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	1	G	G	G	0.8	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-323		GW-324		GW-325		GW-342	
	SPI		S3		S3		BG	
	07/03/91	10/03/91	01/05/91	04/03/91	01/05/91	04/04/91	03/06/91	06/13/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	16
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	0.8	G	G	G	G	G	G
1,1,1-Trichloroethane	0.9	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-342		GW-343				GW-344	
	BG		BG				BG	
	09/05/91	11/05/91	03/07/91	06/14/91	09/05/91	11/07/91	03/09/91	06/15/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	0.8	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	0.8	G	16	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	1	G	G	G	1	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-344		GW-345		GW-347			GW-348
	BG		S3		S3			S3
	09/08/91	11/07/91	01/16/91	04/14/91	04/04/91	07/02/91	10/02/91	04/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	0.3	1	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	0.9	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-348		GW-364				GW-365	
	S3		OLF				OLF	
	07/02/91	10/02/91	02/07/91	05/12/91	08/28/91	10/28/91	02/09/91	05/14/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	5	5	3	5	5	4
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	5	5	3	5	12	11
1,2-Dichloroethene	G	G	12	10	8	12	52	42
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	3	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	1
Toluene	G	G	0.7	G	G	2	G	G
1,1,1-Trichloroethane	0.9	G	2	2	2	2	6	5
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	0.5	G	15	15	12	13	16	26
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-365		GW-366				GW-367	
	OLF		OLF				OLF	
	08/28/91	10/29/91	02/01/91	05/11/91	08/27/91	10/25/91	02/02/91	05/11/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	1
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1- <i>l</i> chloroethane	5	5	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	16	13	G	G	G	G	G	G
1,2-Dichloroethene	50	51	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	0.5	G	G	G	G	1	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	2	1	G	G	G	G	G	G
Toluene	0.7	2	G	G	G	G	G	G
1,1,1-Trichloroethane	7	4	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	44	27	G	G	0.5	0.8	19	17
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	3	2	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-369		GW-370				GW-371	
	OLF		BG				BG	
	02/10/91	05/15/91	02/28/91	06/10/91	09/09/91	11/14/91	09/09/91	11/14/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	1	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	0.7	G	G	G
1,1,1-Trichloroethane	G	G	G	0.8	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	54	32	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-372				GW-373			
	BG				BG			
	02/22/91	05/23/91	09/04/91	11/02/91	02/22/91	05/23/91	09/04/91	11/02/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	11	N	N	N	12	N	19	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	0.8	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	17	G	G	G	16	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	1	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-520				GW-526			
	OLF				S3			
	03/25/91	05/12/91	08/27/91	10/24/91	01/16/91	04/13/91	08/02/91	10/06/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	15	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	1	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.8	G	G	G	G	2
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	0.6	G	G	G	6	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-531		GW-532		GW-533		GW-534	
	OLF		OLF		OLF		OLF	
	03/26/91	06/24/91	03/26/91	06/24/91	03/26/91	06/25/91	03/26/91	06/25/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	0.8	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G		G
1,2-Dichloropropane	G	G	G	G	G	G		G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	17
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	0.8	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-535		GW-537				GW-538	
	OLF		OLF				OLF	
	03/26/91	06/24/91	03/26/91	06/25/91	08/14/91	10/23/91	03/28/91	06/25/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	1	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	16	G	G	G	15
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	0.9	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-601				GW-602			
	OLF				OLF			
	01/25/91	05/04/91	08/30/91	10/31/91	01/25/91	05/06/91	08/22/91	10/18/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	15	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	4	4	3	5	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	1	G	0.9	0.7	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	1	G	G	G	G	G
1,2-Dichloroethene	2	G	1	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	1	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	4	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	1	G	1	G	G	G	G	G
Toluene	G	G	4	G	G	G	G	G
1,1,1-Trichloroethane	0.7	G	0.7	0.9	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	170	150	170	160	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	4	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-613				GW-614			
	S3				S3			
	01/05/91	04/04/91	07/01/91	10/01/91	01/05/91	04/04/91	07/02/91	10/01/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	3	N	N	N	3
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	1	G	G	G	1
1,1,1-Trichloroethane	G	G	0.8	G	G	G	0.9	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-615				GW-616			
	S3				S3			
	01/11/91	04/10/91	08/05/91	10/08/91	01/12/91	04/12/91	07/27/91	10/07/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	190	130	73	89	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	4	3	4	2	G	G	16	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-621				GW-622			
	BG				BG			
	03/20/91	06/20/91	09/10/91	11/16/91	03/20/91	06/20/91	09/25/91	12/21/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	1	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	3	N
Methylene chloride	G	G	G	G	G	17	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	1	G
1,1,1-Trichloroethane	G	0.8	G	G	G	G	1	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-623				GW-624		GW-626	
	BG				BG		BG	
	03/24/91	06/21/91	09/26/91	12/22/91	03/24/91	06/21/91	03/23/91	06/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	W	130	P	N	V	N	N	5
Benzene	T	7	L	G	N	4	G	G
Bromodichloromethane	T	G	L	G	N	G	G	G
Bromoform	T	G	L	G	N	G	G	G
Bromomethane	W	N	P	N	V	N	N	N
2-Butanone	W	N	P	N	V	N	N	N
Carbon disulfide	T	G	L	G	N	G	G	G
Carbon tetrachloride	T	G	L	G	N	G	G	G
Chlorobenzene	T	G	L	G	N	G	G	G
Chlorodibromomethane	T	G	L	G	N	G	G	G
Chloroethane	W	33	P	1	V	N	N	N
Chloroform	38	G	L	G	3	3	G	G
Chloromethane	W	N	P	N	V	N	N	N
1,1-Dichloroethane	870	3200	1900	11	22	50	6	3
1,2-Dichloroethane	T	8	L	G	N	4	G	0.8
1,1-Dichloroethene	T	660	210	G	6	18	4	2
1,2-Dichloroethene	T	580	L	21	330	800	70	32
1,2-Dichloropropane	T	G	L	G	N	G	G	G
cis-1,3-Dichloropropene	T	G	L	G	N	G	G	G
trans-1,3-Dichloropropene	T	G	L	G	N	G	G	G
Ethylbenzene	T	33	L	G	N	G	G	G
2-Hexanone	W	N	P	N	V	N	N	N
4-Methyl-2-pentanone	W	4	P	N	V	N	N	N
Methylene chloride	T	61	L	7	N	G	G	G
Styrene	T	G	L	G	N	G	G	G
1,1,2,2-Tetrachloroethane	T	G	L	G	N	G	G	G
Tetrachloroethene	8400	8400	25000	1	71	140	8	5
Toluene	T	10	670	G	N	G	G	G
1,1,1-Trichloroethane	110	610	220	G	6	15	2	2
1,1,2-Trichloroethane	T	G	L	G	N	G	G	G
Trichloroethene	5400	6700	15000	3	68	160	11	7
Vinyl acetate	W	N	P	N	V	N	N	N
Vinyl chloride	W	150	P	11	29	180	N	N
Xylenes	T	130	L	G	N	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-626		GW-627				GW-629	
	BG		BG				BG	
	09/26/91	12/22/91	03/24/91	06/22/91	09/25/91	12/18/91	03/26/91	06/22/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	74	N	N	N	N	N	N
Benzene	G	3	G	G	G	G	G	G
Bromodichloromethane	G	2	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	50	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	10	N	N	N	N	N	N
Chloroform	0.9	5	0.8	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	11	G	G	2	2	G	6	8
1,2-Dichloroethane	2	3	G	G	G	G	G	G
1,1-Dichloroethene	6	340	G	G	G	G	G	1
1,2-Dichloroethene	110	280	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	13	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	3	N	N	N	3	N	N	N
Methylene chloride	0.7	28	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	13	730	6	16	19	10	75	110
Toluene	1	4	G	G	1	G	G	G
1,1,1-Trichloroethane	5	290	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	21	890	G	2	3	G	7	12
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	47	N	N	N	N	N	N
Xylenes	G	51	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-630				GW-636			
	OLF				OLF			
	03/26/91	06/25/91	08/09/91	10/14/91	02/11/91	05/16/91	08/21/91	10/18/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	22	N	49	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.9	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	16	G	1	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	1	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-637				GW-638			
	OLF				OLF			
	02/12/91	05/17/91	08/20/91	10/17/91	02/12/91	05/17/91	08/20/91	10/17/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	0.9	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	4	N	N	N	4
Methylene chloride	G	16	G	G	G	16	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	3	G	G	G	3
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-639				GW-640			
	BG				BG			
	03/25/91	06/22/91	09/09/91	11/16/91	03/25/91	06/22/91	09/09/91	11/15/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	0.9	G	G	G	0.8
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.7	G	G	G	0.7	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-641				GW-642			
	BG				BG			
	03/25/91	06/22/91	09/09/91	11/15/91	03/09/91	06/15/91	09/04/91	11/03/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	0.6
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.7	G	G	G	G	1
1,1,1-Trichloroethane	G	G	G	G	G	3	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-643				GW-644			
	BG				OLF			
	02/27/91	06/08/91	09/04/91	11/03/91	01/31/91	05/10/91	08/20/91	10/17/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	4
Methylene chloride	G	G	G	1	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	3
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-645				GW-646			
	OLF				OLF			
	02/12/91	05/17/91	08/22/91	10/18/91	01/31/91	05/10/91	08/22/91	10/21/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	16	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-647				GW-648			
	OLF				RS			
	02/01/91	05/10/91	08/26/91	10/21/91	01/15/91	05/01/91	07/03/91	10/03/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	1	G	G	0.4	G	G	G	0.7
1,1,1-Trichloroethane	G	G	G	G	G	G	0.8	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-649				GW-651			
	OLF				BG			
	01/06/91	04/06/91	07/02/91	10/02/91	03/23/91	06/21/91	09/15/91	11/23/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	0.7	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	4	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	4	G	G	2	G
1,1,1-Trichloroethane	G	G	0.9	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	3	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-652				GW-653			
	BG				BG			
	03/23/91	06/21/91	09/14/91	11/23/91	03/23/91	06/21/91	09/15/91	12/11/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	13	9	8	7
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	4	2	3	3
Toluene	G	G	G	G	G	G	2	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	0.7	0.7
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-654				GW-655			
	BG				BG			
	03/09/91	06/15/91	09/14/91	11/23/91	03/09/91	06/15/91	09/05/91	11/05/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	0.7
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	1	G	G	G	G	1
1,1,1-Trichloroethane	G	3	G	G	G	3	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-683			GW-684			GW-685	
	EXP			EXP			EXP	
	05/24/91	09/19/91	12/12/91	05/30/91	09/19/91	12/12/91	06/01/91	09/18/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	0.3	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	3	3
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	16	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	0.5	G
Toluene	G	G	G	G	G	G	G	3
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	0.7	G	G	0.6	0.6
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-685	GW-694				GW-695			GW-703
Location	EXP	EXP				EXP			EXP
Date Sampled	12/12/91	06/19/91	09/13/91	11/22/91	06/18/91	09/13/91	11/22/91	06/18/91	
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.	.
Acetone	N	180	N	55	42	N	N	N	N
Benzene	G	G	0.9	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	0.9	G	G	G	G	G	G
Chlorobenzene	G	G	1	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N	N
Chloroform	G	G	G	.	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	1	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	4	2	G	G	G	G	G
1,2-Dichloroethene	2	G	38	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N
Methylene chloride	0.8	16	G	1	17	G	G	17	
Styrene	G	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	2	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	2	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G
Trichloroethene	0.3	G	41	14	3	2	G	25	
Vinyl acetate	N	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-703		GW-704			GW-705		
	EXP		EXP			EXP		
	09/11/91	11/18/91	06/20/91	09/12/91	11/19/91	06/20/91	09/10/91	09/11/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	.	N
Benzene	G	G	G	G	G	G	.	G
Bromodichloromethane	G	G	G	G	G	G	.	G
Bromoform	G	G	G	G	1	G	.	G
Bromomethane	N	N	N	N	N	N	.	N
2-Butanone	N	N	N	N	N	N	.	N
Carbon disulfide	G	G	G	G	G	G	.	G
Carbon tetrachloride	G	G	2	0.7	1	G	.	G
Chlorobenzene	G	G	G	G	G	G	.	G
Chlorodibromomethane	G	G	G	G	G	G	.	G
Chloroethane	N	N	N	N	N	N	.	N
Chloroform	G	G	G	0.4	G	G	.	G
Chloromethane	N	N	N	N	N	N	.	N
1,1-Dichloroethane	G	G	G	G	1	G	.	G
1,2-Dichloroethane	G	G	G	G	G	G	.	G
1,1-Dichloroethene	G	G	5	4	5	G	.	G
1,2-Dichloroethene	G	G	G	2	G	G	.	G
1,2-Dichloropropane	G	G	G	G	G	G	.	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	.	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	.	G
Ethylbenzene	G	G	G	G	G	G	.	G
2-Hexanone	N	N	N	N	5	N	.	N
4-Methyl-2-pentanone	N	5	N	N	5	N	.	N
Methylene chloride	G	1	16	G	1	16	.	G
Styrene	G	G	G	G	G	G	.	G
1,1,2,2-Tetrachloroethane	G	G	G	G	2	G	.	G
Tetrachloroethene	G	G	G	G	G	G	.	G
Toluene	0.9	G	G	1	G	G	.	0.9
1,1,1-Trichloroethane	G	G	2	1	2	G	.	G
1,1,2-Trichloroethane	G	G	G	G	G	G	.	G
Trichloroethene	23	23	79	65	65	G	.	G
Vinyl acetate	N	N	N	N	N	N	.	N
Vinyl chloride	N	N	N	N	N	N	.	N
Xylenes	G	G	G	G	G	G	.	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-705	GW-706			GW-710	GW-711	GW-712
Location	EXP	EXP			EXP	EXP	EXP
Date Sampled	11/17/91	06/20/91	09/13/91	11/19/91	12/05/91	12/10/91	12/09/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.
Acetone	N	43	N	N	N	N	N
Benzene	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	11	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	2	G	2
Styrene	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	1	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G
Trichloroethene	G	3	G	4	G	G	G
Vinyl acetate	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location • Date Sampled	BC -00.63				BCK-04.55			
	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location	BCK-09.40				BCK-11.97			
Date Sampled	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	11	7	5	4	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	2	G	0.5	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	0.4	G	G	G	0.4	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	0.9	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location	NT-13				SS-1			
Date Sampled	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	0.7	2
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	2	2	2	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	1	0.6	0.6	3
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location .	SS-4				SS-5			
	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	1	G	G	G	0.9	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	2
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	6	13	4	4	G	G	0.9	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location .	SS-6				SS-8			
	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	.	N	N	N
Benzene	G	G	G	G	.	G	G	G
Bromodichloromethane	G	G	G	G	.	G	G	G
Bromoform	G	G	G	G	.	G	G	G
Bromomethane	N	N	N	N	.	N	N	N
2-Butanone	N	N	N	N	.	N	N	N
Carbon disulfide	G	G	G	G	.	G	G	G
Carbon tetrachloride	G	G	G	G	.	G	G	G
Chlorobenzene	G	G	G	G	.	G	G	G
Chlorodibromomethane	G	G	G	G	.	G	G	G
Chloroethane	N	N	N	N	.	N	N	N
Chloroform	G	G	G	G	.	G	G	G
Chloromethane	N	N	N	N	.	N	N	N
1,1-Dichloroethane	G	G	G	G	.	G	G	G
1,2-Dichloroethane	G	G	G	G	.	G	G	G
1,1-Dichloroethene	G	G	G	G	.	G	G	G
1,2-Dichloroethene	G	G	G	G	.	G	G	G
1,2-Dichloropropane	G	G	G	G	.	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	.	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	.	G	G	G
Ethylbenzene	G	G	G	G	.	G	G	G
2-Hexanone	N	N	N	N	.	N	N	N
4-Methyl-2-pentanone	N	N	N	N	.	N	N	N
Methylene chloride	G	G	G	G	.	G	G	G
Styrene	G	G	G	G	.	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	.	G	G	G
Tetrachloroethene	G	G	G	G	.	G	G	G
Toluene	G	G	G	G	.	G	G	G
1,1,1-Trichloroethane	G	G	G	G	.	G	G	G
1,1,2-Trichloroethane	G	G	G	G	.	G	G	G
Trichloroethene	G	G	G	G	.	G	G	G
Vinyl acetate	N	N	N	N	.	N	N	N
Vinyl chloride	N	N	N	N	.	N	N	N
Xylenes	G	G	G	G	.	G	G	G

MISCELLANEOUS AND RADIOLOGICAL PARAMETERS

4 of 9

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-005		GW-013				GW-018	
	OLF		OLF				BG	
	01/26/91	05/09/91	01/28/91	05/02/91	08/19/91	10/17/91	03/21/91	06/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.9	5.1	2.2	1	1.1	3.4	5	5.1
pH, Field (pH units)	7.5	7.7	6.7	6.5	6.6	6.6	6.3	6.2
Redox, Field (mV)	101	5	221	13	-15	6	339	266
Sp. Cond., Field (umho/cm)	539	437	508	574	540	484	54	54
Temp, Field (degrees C)	12.3	15.7	12.7	14.6	19.8	18.1	20.7	22.1
pH, 1 (pH units)	7.1	6.4	6.8	6.5	7.2	6.9	5.8	6.8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	538	423	542	577	656	605	89	61
TDS (mg/L)	322	278	368	370	354	378	48	74
TSS (mg/L)	172	28	2	4	<1	5	1	13
Turbidity (NTU)	230	18	6.9	17	5	2.9	0.6	19
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	47.88	16.65	0.57	4.03	0.54	0.16	1.24	1.24
Gross Alpha (CE+/-)	4.90	2.90	1.30	1.80	1.10	1.80	1.00	1.40
Gross Beta (pCi/L)	35.83	17.26	1.36	9.37	1.89	2.16	3.68	-1.66
Gross Beta (CE+/-)	4.90	4.20	3.30	3.80	3.30	2.80	3.20	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-037		GW-040	GW-042				GW-043
	BG		BG	BG				OLF
	03/09/91	06/14/91	11/12/91	03/05/91	06/11/91	09/05/91	11/04/91	01/22/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.9	2.6	2.3	1.9	5.7	2.7	1.8	5.2
pH, Field (pH units)	7	6.7	6.8	5.7	5.7	5.4	6.3	6.1
Redox, Field (mV)	226	245	73	369	240	180	58	322
Sp. Cond., Field (umho/cm)	389	385	166	60	85	79	63	161
Temp, Field (degrees C)	14.1	19.6	14	14.6	16.8	18.9	14.7	12.7
pH, 1 (pH units)	6.8	8.2	6.1	6.2	3	6.2	5.9	6
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	397	338	170	78	70	78	95	91
TDS (mg/L)	258	258	126	54	54	52	70	122
TSS (mg/L)	2	2	24	<1	<1	<1	<1	22
Turbidity (NTU)	10	11	150	11	5	3.5	0.91	18
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.02	0.46	9.72	0.77	-0.11	0.60	0.00	0.51
Gross Alpha (CE+/-)	1.40	1.20	3.00	1.50	1.10	1.20	1.50	1.30
Gross Beta (pCi/L)	3.12	0.92	12.90	0.74	1.90	1.12	-2.13	-2.05
Gross Beta (CE+/-)	3.50	3.40	3.50	3.30	3.40	3.00	2.70	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	0.46	-0.42	.	.	0.81
Uranium 234 (CE+/-)	.	.	.	0.90	0.80	.	.	1.10
Uranium 235 (pCi/L)	.	.	.	-0.46	0.00	.	.	0.00
Uranium 235 (CE+/-)	.	.	.	0.90	1.40	.	.	1.40
Uranium 238 (pCi/L)	.	.	.	0.00	0.42	.	.	0.00
Uranium 238 (CE+/-)	.	.	.	1.60	0.80	.	.	1.40

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-043			GW-044				GW-052
	OLF			OLF				BG
	05/01/91	08/12/91	10/15/91	01/22/91	05/01/91	08/09/91	10/14/91	03/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.7	8.6	5.6	4.1	3.9	4.5	4.6	5.8
pH, Field (pH units)	6.5	6.5	6.2	6.8	7.2	7.2	7.1	7.2
Redox, Field (mV)	307	231	428	321	297	164	202	225
Sp. Cond., Field (umho/cm)	129	124	107	299	236	244	254	392
Temp, Field (degrees C)	14.9	15.5	14.1	12.5	14.6	15.2	14.7	12.2
pH, 1 (pH units)	3.9	7.2	6.7	6.7	6.1	7.7	7.5	6.6
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	133	166	579	224	240	294	273	419
TDS (mg/L)	134	120	120	184	184	176	190	266
TSS (mg/L)	11	15	13	<1	2	<1	<1	72
Turbidity (NTU)	21	21	29	0.45	0.2	0.25	0.23	52
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.34	1.49	0.29	1.95	0.69	2.22	0.30	31.16
Gross Alpha (CE+/-)	1.10	1.30	1.70	1.50	1.30	1.30	1.70	3.90
Gross Beta (pCi/L)	3.93	5.02	0.08	-0.38	0.19	0.39	2.56	51.44
Gross Beta (CE+/-)	3.50	3.50	2.70	3.40	3.30	3.30	2.90	5.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	0.43	.	.	0.00	0.41	.	.	.
Uranium 234 (CE+/-)	0.90	.	.	1.40	0.80	.	.	.
Uranium 235 (pCi/L)	0.00	.	.	0.00	0.00	.	.	.
Uranium 235 (CE+/-)	1.50	.	.	1.40	1.40	.	.	.
Uranium 238 (pCi/L)	0.87	.	.	0.00	0.82	.	.	.
Uranium 238 (CE+/-)	1.20	.	.	1.40	1.20	.	.	.

(CONTINUED)

APPENDIX 2
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-053				GW-054			
	BG				BG			
	03/19/91	06/19/91	09/26/91	12/22/91	02/27/91	05/31/91	09/15/91	11/24/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.1	0.7	10.8	0.9	8.5	6.1	4	5.8
pH, Field (pH units)	7.2	7.1	7.5	6.7	7.7	7.7	7	7.3
Redox, Field (mV)	179	14	31	150	252	-3	13	181
Sp. Cond., Field (umho/cm)	593	633	618	668	445	368	500	497
Temp, Field (degrees C)	11.6	17.2	17.2	12.9	12.7	17.2	18.6	12.2
pH, 1 (pH units)	7	7.3	7.2	7.3	7.1	6.6	7.7	7.56
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	697	743	745	678	516	509	508	552
TDS (mg/L)	408	464	422	406	390	292	344	322
TSS (mg/L)	4	8	36	20	49	16	11	31
Turbidity (NTU)	2.4	5.7	24	31	150	15	20	35
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.57	1.30	2.55	-0.93	2.47	0.79	2.93	1.51
Gross Alpha (CE+/-)	1.60	1.40	1.50	2.30	1.50	1.20	1.40	2.60
Gross Beta (pCi/L)	5.43	2.67	9.60	6.89	2.41	5.82	24.20	2.17
Gross Beta (CE+/-)	3.40	3.50	3.40	3.20	3.40	3.50	4.20	2.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-056				GW-057		GW-058	
	BG				BG		BG	
	02/26/91	05/24/91	09/15/91	12/11/91	02/26/91	06/19/91	03/19/91	06/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.5	1	1.7	4.2	1.4	1	4.2	5.4
pH, Field (pH units)	7.4	7.3	7.3	7.5	7	6.8	7.1	7
Redox, Field (mV)	223	-73	-88	101	224	32	247	217
Sp. Cond., Field (umho/cm)	665	625	742	503	752	655	496	585
Temp, Field (degrees C)	14.2	15.5	17.1	14.1	13	16.7	13.7	16.4
pH, 1 (pH units)	7.1	6.4	7.5	7.39	6.9	6.9	6.9	7.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	679	598	662	688	760	739	582	630
TDS (mg/L)	390	378	420	412	446	428	208	352
TSS (mg/L)	14	15	16	24	<1	8	9	6
Turbidity (NTU)	14	7.8	11	16	3	15	25	19
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	7.76	1.77	2.34	3.17	2.53	2.68	11.81	4.37
Gross Alpha (CE+/-)	2.10	1.40	1.30	2.30	1.50	1.60	2.60	1.80
Gross Beta (pCi/L)	8.65	10.14	2.57	3.13	1.18	2.16	18.33	4.32
Gross Beta (CE+/-)	3.70	3.70	3.10	2.80	3.30	3.50	4.00	3.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	3.19	1.23
Uranium 234 (CE+/-)	.	.	.	.	.	.	2.40	1.40
Uranium 235 (pCi/L)	.	.	.	.	.	.	0.46	0.00
Uranium 235 (CE+/-)	.	.	.	.	.	.	0.90	1.40
Uranium 238 (pCi/L)	.	.	.	.	.	.	0.91	1.64
Uranium 238 (CE+/-)	.	.	.	.	.	.	1.30	1.60

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-058		GW-061				GW-063	
	BG		BG				OLF	
	09/20/91	12/17/91	03/19/91	06/19/91	09/26/91	12/21/91	02/08/91	05/12/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	3.4	7	4.2	.	11.4	3.3	5.6	5.2
pH, Field (pH units)	6.7	6.8	7.1	6.7	6.7	3.5	7	7
Redox, Field (mV)	137	245	334	.	230	143	306	312
Sp. Cond., Field (umho/cm)	527	619	371	397	635	377	537	529
Temp, Field (degrees C)	14.1	10.4	13.3	17.6	13	12.7	12.7	14.4
pH, 1 (pH units)	7.8	7	6.8	7.5	7.2	7.2	6.8	6.4
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	689	644	438	474	771	496	507	491
TDS (mg/L)	396	390	232	290	472	298	358	322
TSS (mg/L)	9	12	3	6	5	7	75	91
Turbidity (NTU)	28	35	7.8	9.7	4.5	17	60	37
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	8.01	7.96	12.55	9.82	27.00	15.90	2.07	1.13
Gross Alpha (CE+/-)	2.20	3.40	2.70	2.40	3.60	4.00	1.40	1.50
Gross Beta (pCi/L)	17.10	19.10	20.24	16.87	82.90	45.90	16.02	10.07
Gross Beta (CE+/-)	3.90	4.20	4.10	4.20	6.20	4.80	4.00	3.70
Americium 241 (pCi/L)	.	.	.	.	0.40	.	.	.
Americium 241 (CE+/-)	.	.	.	.	1.60	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	1.26	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	1.50	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	23.70	.	.	.
Strontium (CE+/-)	.	.	.	.	5.50	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	9.22	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	650.00	.	.	.
Tritium (Bq/L)	.	.	.	.	26.00	58.00	.	.
Tritium (CE+/-)	.	.	.	.	24.00	41.00	.	.
Uranium 234 (pCi/L)	.	.	0.00	0.83	.	.	.	.
Uranium 234 (CE+/-)	.	.	1.40	1.20	.	.	.	.
Uranium 235 (pCi/L)	.	.	0.00	0.42	.	.	.	.
Uranium 235 (CE+/-)	.	.	1.40	0.80	.	.	.	.
Uranium 238 (pCi/L)	.	.	0.00	4.16	.	.	.	.
Uranium 238 (CE+/-)	.	.	1.40	2.60	.	.	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-063		GW-064				GW-069	
	OLF		OLF				BG	
	08/13/91	10/23/91	02/20/91	05/17/91	08/14/91	10/23/91	03/19/91	06/17/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	11.9	5.1	2	3.3	3.3	3.4	1.4	2.6
pH, Field (pH units)	13.4	6.9	7.1	7.1	7.2	7.2	8.9	8.8
Redox, Field (mV)	464	197	254	233	204	217	-121	-162
Sp. Cond., Field (umho/cm)	1139	607	528	569	593	585	335	350
Temp, Field (degrees C)	33.5	15.3	13.2	15.6	15.2	15.5	14.7	17.3
pH, 1 (pH units)	7.6	7.2	6.8	6.5	8	7.2	7.6	8.3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	594	621	391	527	712	632	349	387
TDS (mg/L)	298	402	402	404	364	432	216	248
TSS (mg/L)	<1	8	15	2	3	3	<1	<1
Turbidity (NTU)	0.4	22	34	4.5	3	7.9	0.17	0.25
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.01	3.84	-0.02	2.43	0.72	1.23	1.57	0.16
Gross Alpha (CE+/-)	1.40	2.00	1.30	1.50	1.20	1.40	1.50	1.20
Gross Beta (pCi/L)	13.01	7.83	22.58	22.95	22.88	9.77	4.11	2.26
Gross Beta (CE+/-)	3.90	3.00	4.30	4.40	4.30	3.10	3.30	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-069		GW-071		GW-072		GW-074	
Location	BG		BG		BG		OLF	
Date Sampled	09/20/91	12/16/91	03/24/91	06/21/91	03/19/91	06/18/91	01/30/91	05/10/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1	1.8	1.5	0.6	0.6	0.7	3.7	0.5
pH, Field (pH units)	8.3	8.5	10.4	10.3	9.9	9.8	9.2	8.9
Redox, Field (mV)	-138	-132	-325	-256	-146	-201	144	174
Sp. Cond., Field (umho/cm)	326	308	1527	1525	436	478	452	557
Temp, Field (degrees C)	15.2	14.3	16	16.1	14.1	16	14.6	15.6
pH, 1 (pH units)	8.5	8.7	10.4	10	9.8	9.9	9.5	6.7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	394	379	1485	1579	401	413	426	466
TDS (mg/L)	240	218	896	882	288	296	318	310
TSS (mg/L)	<1	2	19	1	2	2	<1	1
Turbidity (NTU)	0.25	1	1.1	0.3	3.9	1.6	0.35	0.31
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.49	-1.68	1.48	2.04	-0.30	2.08	-0.13	-0.09
Gross Alpha (CE+/-)	1.30	2.00	1.10	1.40	1.20	1.50	1.20	1.30
Gross Beta (pCi/L)	6.44	-2.96	3.50	3.85	0.97	2.55	2.01	5.49
Gross Beta (CE+/-)	3.30	3.10	3.20	3.20	3.10	3.40	3.40	3.50
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-074		GW-075				GW-076	
	OLF		OLF				OLF	
	08/26/91	10/21/91	01/28/91	05/10/91	08/27/91	10/25/91	01/26/91	05/09/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.5	0.3	1.5	0.8	0.6	1	3.6	1.4
pH, Field (pH units)	8.7	9.2	9.2	9.2	8.5	9.3	8.1	8
Redox, Field (mV)	96	-138	87	-63	37	-152	128	95
Sp. Cond., Field (umho/cm)	487	492	804	1060	941	919	356	351
Temp, Field (degrees C)	16.5	16.4	15.2	16.9	17.6	15.8	12.5	16.1
pH, 1 (pH units)	9.4	7.8	9.1	7.1	9.1	8.9	7.1	6.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	570	1118	877	971	1090	1017	301	340
TDS (mg/L)	328	324	612	638	638	602	174	218
TSS (mg/L)	2	<1	8	5	6	8	1	2
Turbidity (NTU)	0.4	0.7	2.8	1.4	1.3	1.7	0.25	0.4
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.14	2.04	0.98	0.94	2.69	1.59	1.03	0.31
Gross Alpha (CE+/-)	1.40	1.70	1.40	1.50	1.70	2.40	1.50	1.00
Gross Beta (pCi/L)	-2.50	2.44	7.28	2.51	2.55	4.97	8.57	4.36
Gross Beta (CE+/-)	3.00	2.70	3.60	3.30	3.30	3.00	3.60	3.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX 2
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-077		GW-078		GW-079		GW-080	
	BG		BG		BG		BG	
	02/27/91	06/05/91	02/27/91	06/05/91	02/23/91	06/04/91	02/23/91	05/24/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.1	2.6	2.5	2	1.5	0.7	3.4	1.6
pH, Field (pH units)	7.5	7.7	7.6	7.8	7.9	8.2	5.6	6.1
Redox, Field (mV)	249	-3	248	81	246	130	366	142
Sp. Cond., Field (umho/cm)	311	283	286	275	184	219	72	96
Temp, Field (degrees C)	13.5	15.1	13.5	14.7	9.6	15.5	12.7	15.3
pH, 1 (pH units)	6.9	6	6.9	6	6.7	5.9	6	3.1
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	300	280	286	280	164	213	<50	88
TDS (mg/L)	202	172	188	172	130	120	142	106
TSS (mg/L)	<1	6	1	4	6	4	1550	1818
Turbidity (NTU)	1.5	2.5	1.9	0.55	4.8	3.8	750	480
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.25	0.66	2.51	1.92	1.34	0.34	4.43	2.09
Gross Alpha (CE+/-)	1.10	1.20	1.50	1.40	1.30	1.00	1.70	1.50
Gross Beta (pCi/L)	0.20	1.07	4.45	5.03	0.37	-1.51	8.59	9.40
Gross Beta (CE+/-)	3.20	3.30	3.50	3.50	3.30	3.20	3.70	3.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	0.00	-0.43	0.00	0.00
Uranium 234 (CE+/-)	.	.	.	.	1.90	0.90	1.70	1.50
Uranium 23 (pCi/L)	.	.	.	.	0.00	0.00	0.00	0.00
Uranium 23 (CE+/-)	.	.	.	.	1.60	1.50	1.50	1.50
Uranium 236 (pCi/L)	.	.	.	.	0.00	0.00	0.44	-0.84
Uranium 238 (CE+/-)	.	.	.	.	1.60	1.50	0.90	1.20

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-080		GW-082				GW-083	
	BG		BG				BG	
	09/07/91	11/06/91	03/09/91	06/11/91	09/25/91	12/21/91	03/09/91	06/11/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.7	3	0.6	3.3	2.8	3.3	1.6	1
pH, Field (pH units)	5.7	5.9	7.3	7.2	7.5	5	7.9	7.6
Redox, Field (mV)	227	167	172	153	151	157	248	266
Sp. Cond., Field (umho/cm)	127	107	398	371	312	256	244	239
Temp, Field (degrees C)	15.6	12.8	12.5	16.1	15.1	13.7	15.1	15.8
pH, 1 (pH units)	6	6	7	6.1	7.6	7.5	6.9	5.3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	124	121	334	345	367	334	226	205
TDS (mg/L)	130	135	260	236	232	208	162	128
TSS (mg/L)	23	550	22	2	2	17	<1	2
Turbidity (NTU)	62	290	6.4	5.3	2.4	16	0.25	1.6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.85	2.11	0.51	0.75	0.70	0.16	2.09	0.90
Gross Alpha (CE+/-)	1.30	1.90	1.50	0.90	1.10	2.10	1.70	1.30
Gross Beta (pCi/L)	2.63	7.28	3.09	0.98	1.92	4.24	0.96	4.51
Gross Beta (CE+/-)	3.40	3.20	3.50	3.30	3.50	3.00	3.30	3.50
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-083		GW-084				GW-085	
	BG		OLF				OLF	
	09/14/91	12/27/91	01/22/91	05/01/91	08/09/91	10/14/91	01/26/91	05/09/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.2	1.2	1.9	2	2.4	1.5	2.2	7.2
pH, Field (pH units)	7.7	7.6	7.2	7.5	7.1	7.2	7.3	7.5
Redox, Field (mV)	84	142	280	263	183	195	289	312
Sp. Cond., Field (umho/cm)	226	228	308	264	269	261	1153	1061
Temp, Field (degrees C)	17.6	15.1	14.7	15.2	16.1	15.8	12.3	16.7
pH, 1 (pH units)	7.9	8.4	6.9	6.2	7.9	7.9	6.6	5.7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	219	224	238	279	332	294	1183	1187
TDS (mg/L)	140	176	234	204	198	216	870	946
TSS (mg/L)	2	1	65	33	51	55	4	2
Turbidity (NTU)	0.15	1.6	34	11	28	38	1.4	0.33
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.02	1.36	0.45	1.59	0.98	0.16	2.07	1.85
Gross Alpha (CE+/-)	1.10	2.20	1.30	1.50	1.10	1.70	1.70	1.30
Gross Beta (pCi/L)	0.55	2.97	1.35	0.30	-0.97	2.40	69.36	72.08
Gross Beta (CE+/-)	3.00	2.90	3.50	3.30	3.20	2.80	6.10	6.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	0.00	3.32	.	.	.	.
Uranium 234 (CE+/-)	.	.	1.40	2.40	.	.	.	.
Uranium 235 (pCi/L)	.	.	0.00	2.49	.	.	.	.
Uranium 235 (CE+/-)	.	.	1.40	2.00	.	.	.	.
Uranium 238 (pCi/L)	.	.	0.00	0.83	.	.	.	.
Uranium 238 (CE+/-)	.	.	1.40	1.20	.	.	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-085		GW-086		GW-089			
	OLF		OLF		BG			
	08/13/91	10/15/91	01/26/91	05/09/91	03/05/91	06/11/91	09/07/91	11/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2	1.8	2.9	2.4	8	2.3	0.6	5.3
pH, Field (pH units)	7.1	6.8	6	5.6	7.3	7.3	7.1	6.9
Redox, Field (mV)	247	317	325	295	281	-77	55	26
Sp. Cond., Field (umho/cm)	1220	1359	228	211	272	305	315	289
Temp, Field (degrees C)	17.8	15.2	11.8	15.3	8.6	17.3	18.5	14.8
pH, 1 (pH units)	7.6	7.3	6.4	5.5	7.3	5.9	7.1	7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	1481	129	210	229	308	280	336	385
TDS (mg/L)	1028	1040	165	198	192	176	186	218
TSS (mg/L)	5	<1	2092	948	<1	16	17	11
Turbidity (NTU)	2.5	0.23	800	460	1.4	9.5	6.5	6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.72	1.37	6.18	3.89	1.38	0.38	0.54	-0.47
Gross Alpha (CE+/-)	1.20	2.10	2.20	1.90	1.60	1.20	1.10	1.50
Gross Beta (pCi/L)	89.39	24.60	11.60	11.59	1.40	5.53	2.49	1.46
Gross Beta (CE+/-)	6.60	4.00	3.80	3.80	3.40	3.60	3.40	2.90
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-095				GW-101		GW-115	
	BG				S3		S3	
	03/19/91	06/18/91	09/23/91	12/16/91	01/12/91	04/14/91	01/05/91	04/03/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.8	0.7	0.6	1.7	5.4	4.6	2.1	1.4
pH, Field (pH units)	9.1	8.9	9.3	9	6.5	6.6	7.3	7.4
Redox, Field (mV)	198	44	63	75	415	330	240	-55
Sp. Cond., Field (umho/cm)	455	510	518	418	15830	9330	426	459
Temp, Field (degrees C)	14.3	16.8	14.2	12.3	15	15.7	16.1	16.5
pH, 1 (pH units)	8.6	9.1	8.9	9.1	6.5	7.1	6.9	7.4
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	486	532	537	534	14227	11546	381	401
TDS (mg/L)	292	320	336	328	10722	7898	262	270
TSS (mg/L)	<1	<1	<1	2	226	81	<1	1
Turbidity (NTU)	0.22	0.15	0.27	0.4	85	32	3	3.8
.	.	.	.	.	.	.	.	.
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.22	1.66	1.37	-2.97	23.41	10.06	1.57	1.45
Gross Alpha (CE+/-)	1.00	1.40	1.20	2.00	16.80	14.60	1.20	1.10
Gross Beta (pCi/L)	1.88	0.39	3.26	-6.26	43.72	41.52	2.02	6.79
Gross Beta (CE+/-)	3.10	3.40	3.60	2.90	38.10	33.60	3.40	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	57.00	126.00
Technetium 99 (CE+/-)	.	.	.	.	.	.	1600.00	1600.00
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	0.00	-0.43
Uranium 234 (CE+/-)	.	.	.	.	.	.	1.50	0.90
Uranium 235 (pCi/L)	.	.	.	.	.	.	0.00	0.00
Uranium 235 (CE+/-)	.	.	.	.	.	.	1.50	1.50
Uranium 238 (pCi/L)	.	.	.	.	.	.	0.42	0.00
Uranium 238 (CE+/-)	.	.	.	.	.	.	0.80	1.50

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-115		GW-117				GW-118	
	S3		BG				BG	
	07/01/91	10/01/91	03/25/91	06/17/91	09/23/91	12/19/91	03/25/91	06/17/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.5	1.2	3.2	0.7	2.3	1.6	2.3	2
pH, Field (pH units)	7.2	7.3	9.1	9	9.5	7.1	9.5	9.7
Redox, Field (mV)	-99	-75	-85	-154	-155	-116	-30	-119
Sp. Cond., Field (umho/cm)	460	387	3680	3130	2790	3150	9530	8580
Temp, Field (degrees C)	18.5	16.7	16	16.3	16.5	10.6	16	17.3
pH, 1 (pH units)	8.2	7.7	8.7	9.1	8.9	9.32	8.6	9.6
Phenols (mg/L)	.	.	<0.03	<0.05	.	.	.	.
Sp. Cond., 1 (umho/cm)	432	466	3254	3300	331	3220	9469	8860
TDS (mg/L)	322	274	1940	1832	1844	1844	5216	4888
TSS (mg/L)	1	1	25	18	12	7	15	43
Turbidity (NTU)	2.2	2.4	23	17	6.4	6.3	18	28
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.84	5.44	-1.07	9.97	2.39	-6.96	1.67	2.93
Gross Alpha (CE+/-)	1.40	1.90	1.20	13.70	1.40	23.00	1.70	12.50
Gross Beta (pCi/L)	5.20	13.30	-1.75	15.22	0.69	-11.40	-1.57	-4.93
Gross Beta (CE+/-)	3.40	3.60	3.30	33.40	3.50	32.00	3.30	32.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-118		GW-119				GW-122	
	BG		BG				S3	
	09/23/91	12/19/91	03/25/91	06/17/91	09/23/91	12/19/91	01/12/91	04/13/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.5	1.6	1.5	3.4	1.1	1.6	0.4	3.2
pH, Field (pH units)	10.1	11.5	9.5	9.4	9.7	9.7	6.6	6.8
Pedox, Field (mV)	2	-3	-21	-120	-163	-163	287	284
Sp. Cond., Field (umho/cm)	7500	8350	6340	5570	4870	5570	5320	4890
Temp, Field (degrees C)	14.7	12.3	15.5	18.3	14.9	11.3	12.4	15.1
pH, 1 (pH units)	9.9	10.84	8.9	9.4	9.3	9.5	6.7	7.8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	8790	8850	6333	5860	5780	5640	5935	6154
TDS (mg/L)	4944	4976	3514	2956	3218	3206	4392	4336
TSS (mg/L)	85	63	18	20	22	11	4	6
Turbidity (NTU)	18	50	18	17	6.8	6.1	1.3	3.2
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	17.41	-26.60	-0.19	-13.91	9.13	-14.40	-11.01	-0.81
Gross Alpha (CE+/-)	6.80	29.00	1.40	8.80	5.60	26.00	11.40	6.60
Gross Beta (pCi/L)	-0.36	-13.60	3.81	31.38	16.42	6.25	-9.33	40.05
Gross Beta (CE+/-)	13.70	33.00	3.60	34.30	14.60	34.00	35.40	33.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-123				GW-125			
	S3				S3			
	03/25/91	04/06/91	07/12/91	10/04/91	03/25/91	04/06/91	07/12/91	10/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.2	1.6	4.4	1.2	2.6	1.9	7.5	1.1
pH, Field (pH units)	9.5	9.9	9.7	9.5	9.8	10	10.1	10.1
Redox, Field (mV)	-6	-237	-203	-125	-34	-140	-74	-31
Sp. Cond., Field (umho/cm)	1809	1779	1722	1611	2020	2120	1440	1811
Temp, Field (degrees C)	15.6	15.5	19	16.1	16.2	17.8	22.6	18.8
pH, 1 (pH units)	9.6	9.6	9.9	9.6	9.9	9.8	9.9	9.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	1683	1749	192	1885	1913	2008	2250	2120
TDS (mg/L)	1148	1110	1138	1092	1310	1174	1328	1132
TSS (mg/L)	20	12	14	20	18	14	8	25
Turbidity (NTU)	13	5.7	6	6	5.4	4	6.9	8.8
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-1.04	0.88	-0.11	1.41	6.60	5.27	0.39	1.29
Gross Alpha (CE+/-)	2.70	0.90	2.10	1.40	2.20	1.60	2.20	1.40
Gross Beta (pCi/L)	10.55	7.99	11.09	10.50	40.90	9.60	9.93	10.60
Gross Beta (CE+/-)	7.30	3.40	6.80	3.50	5.20	3.50	6.70	3.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-162		GW-163		GW-164		GW-209	
	BG		BG		BG		EIP	
	02/28/91	06/11/91	03/02/91	06/12/91	03/05/91	06/13/91	02/23/91	06/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	8	6.4	2.2	9.3	1.6	0.5	6.5	5.3
pH, Field (pH units)	8	7.4	8.5	9.2	8	7.7	4.6	5.6
Redox, Field (mV)	249	224	167	97	239	234	445	228
Sp. Cond., Field (umho/cm)	253	273	338	344	313	346	37	39
Temp, Field (degrees C)	15.2	16	15	19	15.6	17.1	12.6	15.8
pH, 1 (pH units)	6.9	5.3	7.5	5.9	7.6	6	5.9	3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	252	234	323	302	352	223	<50	50
TDS (mg/L)	168	134	240	200	216	230	46	66
TSS (mg/L)	4	3	24	11	<1	1	574	278
Turbidity (NTU)	16	3.4	20	22	2.7	1.6	550	130
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.99	0.03	1.01	1.27	2.30	1.84	3.99	3.42
Gross Alpha (CE+/-)	1.00	1.20	1.00	1.40	1.30	1.50	1.80	1.60
Gross Beta (pCi/L)	4.60	-1.05	5.71	0.95	6.45	-0.26	7.04	2.99
Gross Beta (CE+/-)	3.30	3.30	3.40	3.40	3.40	3.30	3.60	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	-0.44	-0.44	-0.43	0.41	0.41	2.87	.	.
Uranium 234 (CE+/-)	0.90	0.90	0.90	1.40	1.40	2.50	.	.
Uranium 235 (pCi/L)	0.00	-0.44	0.00	0.00	0.41	-0.41	.	.
Uranium 235 (CE+/-)	1.50	0.90	1.50	1.60	0.80	0.80	.	.
Uranium 238 (pCi/L)	0.00	0.44	0.00	4.50	0.41	0.41	.	.
Uranium 238 (CE+/-)	1.50	1.50	1.50	3.40	0.80	1.40	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-210		GW-211		GW-225			
	EXP		EXP		OLF			
	02/23/91	06/05/91	02/26/91	06/06/91	02/21/91	05/17/91	08/31/91	11/01/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2	5.8	0.2	0.4	0.6	0.7	1	1.4
pH, Field (pH units)	8.6	8.5	7.5	7.7	7.4	7.2	7.4	7
Redox, Field (mV)	-1	190	25	10	280	121	-8	195
Sp. Cond., Field (umho/cm)	319	354	1432	1257	951	1181	1192	1041
Temp, Field (degrees C)	14.5	16	14.4	15.3	13.8	15.4	16.2	14.3
pH, 1 (pH units)	7.2	5.2	6.7	5.6	6.7	6.4	7.3	6.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	308	241	1550	1513	1261	1236	1229	1154
TDS (mg/L)	158	218	1308	1356	822	828	854	698
TSS (mg/L)	7	29	6	14	<1	1	<1	2
Turbidity (NTU)	4.5	4	26	50	1.5	1	0.4	0.65
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.90	-0.17	-0.45	2.15	1.84	3.70	2.73	6.63
Gross Alpha (CE+/-)	1.40	1.10	2.00	1.50	1.60	1.70	1.60	2.60
Gross Beta (pCi/L)	5.49	3.48	-22.29	8.03	42.29	33.78	29.90	23.20
Gross Beta (CE+/-)	3.60	3.40	5.10	3.70	5.10	4.80	4.60	3.80
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-226		GW-227				GW-243	
	OLF		OLF				S3	
	02/08/91	05/13/91	02/08/91	05/12/91	08/31/91	11/01/91	01/22/91	04/18/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.5	1.4	2	0.9	1	1.5	1.8	5
pH, Field (pH units)	6.4	6	6.8	6.6	6.7	6.9	3.5	3.7
Redox, Field (mV)	51	3	272	189	50	188	403	482
Sp. Cond., Field (umho/cm)	1183	1414	747	927	736	852	33300	23000
Temp, Field (degrees C)	12.8	17.2	12.5	14.5	15.5	14.4	14.2	13.5
pH, 1 (pH units)	6.5	6.3	6.7	6.4	7.1	6.9	3.7	.
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	1161	1241	720	777	821	954	30200	.
TDS (mg/L)	726	792	464	470	482	570	33058	.
TSS (mg/L)	66	66	1	2	2	11	53	.
Turbidity (NTU)	85	70	2	4.4	1.8	5.9	15	.
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	22.19	33.86	28.34	17.04	8.21	9.42	12000.00	15000.00
Gross Alpha (CE+/-)	3.30	4.00	3.70	3.10	2.20	2.80	770.00	830.00
Gross Beta (pCi/L)	41.44	32.61	80.07	64.70	49.80	51.70	38000.00	75000.00
Gross Beta (CE+/-)	5.00	4.80	6.30	5.80	5.30	4.90	1300.00	1700.00
Americium 241 (pCi/L)	.	.	.	.	-0.54	.	.	27.78
Americium 241 (CE+/-)	.	.	.	.	0.03	.	.	11.50
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	0.10	0.10
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	2.00	2.00
Neptunium 237 (pCi/L)	.	.	.	.	2.04	.	41.70	1090.00
Neptunium 237 (CE+/-)	.	.	.	.	1.80	.	59.00	310.00
Plutonium 238 (pCi/L)	.	.	.	.	.	.	-0.16	-20.50
Plutonium 238 (CE+/-)	.	.	.	.	.	.	0.23	41.00
Plutonium 239 (pCi/L)	.	.	.	.	.	.	0.00	41.00
Plutonium 239 (CE+/-)	.	.	.	.	.	.	0.29	120.00
Strontium (pCi/L)	.	.	.	.	-2.57	.	0.56	225.00
Strontium (CE+/-)	.	.	.	.	3.50	.	1.70	51.00
Technetium 99 (pCi/L)	.	.	.	.	-487.00	.	68500.00	68900.00
Technetium 99 (CE+/-)	.	.	.	.	1600.00	.	2900.00	3000.00
Tritium (Bq/L)	.	.	.	.	3.00	.	170.00	160.00
Tritium (CE+/-)	.	.	.	.	35.00	.	40.00	30.00
Uranium 234 (pCi/L)	.	.	.	.	.	.	4270.00	303.00
Uranium 234 (CE+/-)	.	.	.	.	.	.	2000.00	170.00
Uranium 235 (pCi/L)	.	.	.	.	.	.	475.00	454.00
Uranium 235 (CE+/-)	.	.	.	.	.	.	670.00	200.00
Uranium 238 (pCi/L)	.	.	.	.	.	.	9020.00	800.00
Uranium 238 (CE+/-)	.	.	.	.	.	.	3000.00	260.00

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APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-243		GW-286		GW-287		GW-290	
Location	S3		BG		BG		BG	
Date Sampled	08/06/91	10/11/91	09/14/91	11/23/91	09/14/91	11/23/91	03/21/91	06/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.1	0.4	1.3	0.9	4	2.2	2.4	5.1
pH, Field (pH units)	3.8	3.6	7.6	7.6	6.9	7.2	8	7.6
Redox, Field (mV)	374	382	83	91	141	106	278	150
Sp. Cond., Field (umho/cm)	29700	29800	251	273	226	282	405	448
Temp, Field (degrees C)	20.2	17.4	19.5	15	21	15.5	23.8	16.8
pH, 1 (pH units)	4	3.9	7.9	7.6	7.3	7.1	7	7.5
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	32200	27200	258	291	215	253	438	495
TDS (mg/L)	33258	33422	158	194	142	166	284	284
TSS (mg/L)	65	54	<1	45	12	3	4	7
Turbidity (NTU)	12	8.4	0.85	44	14	5.1	0.48	5.2
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1060.00	12400.00	2.19	2.75	1.05	2.61	1.70	1.02
Gross Alpha (CE+/-)	70.00	690.00	1.30	1.90	1.10	1.90	1.10	1.40
Gross Beta (pCi/L)	7470.00	59800.00	2.25	0.08	2.44	0.99	10.66	3.53
Gross Beta (CE+/-)	170.00	1000.00	3.10	2.80	3.10	2.90	3.60	3.60
Americium 241 (pCi/L)	.	27.00	.	.	.	.	.	.
Americium 241 (CE+/-)	.	8.80	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	800.00	394.00	.	.	.	.	.	.
Neptunium 237 (CE+/-)	83.00	80.10	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	241.00	147.00	.	.	.	.	.	.
Strontium (CE+/-)	42.00	11.00	.	.	.	.	.	.
Technetium 99 (pCi/L)	68700.00	80400.00	.	.	.	.	.	.
Technetium 99 (CE+/-)	3000.00	3200.00	.	.	.	.	.	.
Tritium (Bq/L)	150.00	200.00	.	.	.	.	.	.
Tritium (CE+/-)	30.00	40.00	.	.	.	.	.	.
Uranium 234 (pCi/L)	4650.00	3140.00	.	.	.	.	.	.
Uranium 234 (CE+/-)	200.00	240.00	.	.	.	.	.	.
Uranium 235 (pCi/L)	365.00	178.00	.	.	.	.	.	.
Uranium 235 (CE+/-)	56.00	60.00	.	.	.	.	.	.
Uranium 238 (pCi/L)	13600.00	7550.00	.	.	.	.	.	.
Uranium 238 (CE+/-)	340.00	370.00	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-291		GW-106		GW-307		GW-308	
	BG		RS		RS		RS	
	03/24/91	06/21/91	01/14/91	04/26/91	01/14/91	04/26/91	01/14/91	04/30/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	3.5	1.8	1.4	2.6	0.8	3.3	0.4	0.8
pH, Field (pH units)	6.7	7.1	6.9	7	6.6	6.5	6.7	6.7
Redox, Field (mV)	296	175	303	296	300	280	318	298
Sp. Cond., Field (umho/cm)	439	395	592	647	735	875	727	992
Temp, Field (degrees C)	16	20.1	13.6	18.2	14.1	16.2	14.7	15.8
pH, 1 (pH units)	6.7	6.8	7	7	6.8	6.7	6.8	6.6
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	419	463	682	634	846	906	926	971
TDS (mg/L)	222	266	426	374	536	540	630	636
TSS (mg/L)	5	9	4	6	14	3	127	30
Turbidity (NTU)	4.8	3.5	3.6	3	10	2.4	75	32
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.25	0.73	1.35	2.71	0.38	3.60	4.81	2.66
Gross Alpha (CE+/-)	1.20	1.20	1.50	1.70	1.40	1.80	2.00	1.70
Gross Beta (pCi/L)	6.06	2.78	24.14	12.49	31.65	27.17	32.06	16.92
Gross Beta (CE+/-)	3.30	3.10	4.70	3.80	5.00	4.50	5.00	4.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	0.02	14.50	.	.	.	.
Cesium 137 (CE+/-)	.	.	0.03	31.80	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	0.01	0.10	0.10	0.01	0.01	0.10
Iodine 125 + 129 (CE+/-)	.	.	0.76	1.30	1.50	0.75	0.71	1.50
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	-0.66	-29.50	.	.	.	.
Strontium (CE+/-)	.	.	1.50	31.00	.	.	.	.
Technetium 99 (pCi/L)	.	.	2040.00	-434.00	.	.	.	.
Technetium 99 (CE+/-)	.	.	1600.00	1600.00	.	.	.	.
Tritium (Bq/L)	.	.	11.00	7.00	10.00	13.00	14.00	38.00
Tritium (CE+/-)	.	.	33.00	33.00	33.00	22.00	33.00	28.00
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-309				GW-310		GW-311	
	RS				RS		RS	
	01/13/91	04/25/91	08/13/91	10/23/91	01/15/91	04/30/91	01/13/91	04/26/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.4	0.5	0.7	0.5	1.3	0.6	6.1	9
pH, Field (pH units)	6.4	6.6	6.4	6.5	6.1	6.3	7.3	7.6
Redox, Field (mV)	308	252	293	170	317	317	348	205
Sp. Cond., Field (umho/cm)	982	1020	1120	895	753	673	371	353
Temp, Field (degrees C)	14.8	16.6	16.8	15.8	14.1	14.9	12.6	17.1
pH, 1 (pH units)	6.8	6.8	7.1	6.7	6.6	6.4	7	7.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	1038	1075	1182	962	720	663	339	369
TDS (mg/L)	630	648	634	670	438	436	216	226
TSS (mg/L)	1	<1	1	1	3	6	1	1
Turbidity (NTU)	1.1	0.2	0.3	0.42	3.5	4.5	2.2	1.5
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.23	1.08	3.34	1.17	1.04	1.96	2.17	2.88
Gross Alpha (CE+/-)	1.70	1.50	1.60	1.50	1.50	1.50	1.70	1.80
Gross Beta (pCi/L)	46.09	39.43	57.08	21.10	38.85	23.14	0.21	4.34
Gross Beta (CE+/-)	5.50	4.90	5.60	3.70	5.20	4.40	3.60	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	0.00	0.89	.	.	.	.	.	.
Cesium 137 (CE+/-)	0.03	36.30	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	0.10	0.01	.	.	0.01	0.10	0.01	0.10
Iodine 125 + 129 (CE+/-)	1.60	0.74	.	.	0.78	1.40	0.75	1.50
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	2.07	-10.10	.	.	.	.	.	.
Strontium (CE+/-)	1.80	32.00	.	.	.	.	.	.
Technetium 99 (pCi/L)	1880.00	-776.00	.	.	.	.	.	.
Technetium 99 (CE+/-)	1600.00	1600.00	.	.	.	.	.	.
Tritium (Bq/L)	-5.00	9.00	.	.	-4.00	18.00	-3.00	-2.00
Tritium (CE+/-)	32.00	22.00	.	.	32.00	25.00	32.00	21.00
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-312		GW-313				GW-314	
	RS		SPI				SPI	
	01/14/91	04/26/91	01/09/91	04/J9/91	07/18/91	10/05/91	01/08/91	04/08/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.5	1.7	2.6	2.6	2.6	1.7	4	4
pH, Field (pH units)	12.1	11.9	6.5	6.9	7	6.8	6.8	7.2
Redox, Field (mV)	31	135	272	312	224	177	337	261
Sp. Cond., Field (umho/cm)	2140	2080	615	564	595	590	420	496
Temp, Field (degrees C)	13.1	16	12.8	16.1	16.5	15.7	13.1	15.8
pH, 1 (pH units)	12.5	11.7	6.9	7.2	7.5	7.1	7	7.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	839	802	517	369	612	669	451	394
TDS (mg/L)	438	374	306	324	312	390	272	264
TSS (mg/L)	19	52	<1	2	2	5	<1	<1
Turbidity (NTU)	6.4	4.5	1.3	2	1.5	2.3	1.2	0.2
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.09	3.03	0.27	-0.11	1.68	1.03	1.27	2.24
Gross Alpha (CE+/-)	1.50	1.80	1.00	1.10	1.30	1.40	1.20	1.20
Gross Beta (pCi/L)	13.57	16.25	2.22	4.62	3.68	10.80	9.07	5.36
Gross Beta (CE+/-)	4.20	4.00	3.30	3.30	3.30	3.60	3.70	3.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	0.10	0.10	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	1.40	1.20	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	-4.00	39.00	.	.	.	.	.	.
Tritium (CE+/-)	32.00	27.00	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-314		GW-315				GW-316	
	SPI		SPI				SPI	
	07/20/91	10/05/91	01/08/91	04/08/91	07/20/91	10/05/91	01/08/91	04/08/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.8	3.8	4	4.4	2.4	2.8	7.8	8
pH, Field (pH units)	6.9	7.1	6.9	7.2	6.9	6.9	7.5	7.7
Redox, Field (mV)	229	169	324	328	240	207	336	313
Sp. Cond., Field (umho/cm)	549	534	408	499	611	687	346	362
Temp, Field (degrees C)	17	16.7	13.5	16	17.7	16.3	10.3	15.8
pH, 1 (pH units)	7.6	7.2	6.9	7.1	7.4	7.3	6.9	7.3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	699	601	437	369	740	788	325	312
TDS (mg/L)	394	344	260	282	472	518	192	184
TSS (mg/L)	<1	4	<1	<1	1	5	5	3
Turbidity (NTU)	0.8	0.18	1.2	0.7	0.7	0.14	2.9	2.9
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	3.13	2.19	0.40	0.78	5.29	2.65	2.06	3.01
Gross Alpha (CE+/-)	1.60	1.50	1.00	0.80	1.90	1.60	1.30	1.30
Gross Beta (pCi/L)	71.38	22.30	8.57	17.10	108.55	159.00	3.07	6.71
Gross Beta (CE+/-)	6.30	4.10	3.70	3.80	7.40	8.20	3.40	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-316		GW-317				GW-323	
	SPI		SPI				SPI	
	07/18/91	10/05/91	01/06/91	04/06/91	07/10/91	10/03/91	01/06/91	04/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	7.2	7.9	7.1	9.1	2.9	3.9	7.6	9
pH, Field (pH units)	7.4	7.5	7.8	7.9	8	7.8	7.5	7.4
Redox, Field (mV)	225	196	325	160	180	189	339	185
Sp. Cond., Field (umho/cm)	376	371	371	388	295	333	367	398
Temp, Field (degrees C)	17.6	16	12.7	14.2	19.4	19.6	11.6	15.4
pH, 1 (pH units)	8.1	7.6	7	7	8.1	7.9	6.9	7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	382	374	325	358	419	405	350	358
TDS (mg/L)	204	188	224	216	298	196	222	230
TSS (mg/L)	2	7	<1	1	<1	3	<1	1
Turbidity (NTU)	2	3	1	1.4	0.45	0.48	0.34	0.33
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.98	0.35	1.81	0.75	2.24	1.69	2.90	1.61
Gross Alpha (CE+/-)	1.20	1.20	1.30	0.80	1.50	1.10	1.50	1.00
Gross Beta (pCi/L)	2.82	2.35	2.59	4.84	2.73	-1.42	3.07	8.80
Gross Beta (CE+/-)	3.20	3.10	3.40	3.20	3.20	3.10	3.40	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	5.00	.	.	.	.	.	.
Tritium (CE+/-)	.	30.00	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	0.48	0.00	.	.	.	.
Uranium 234 (CE+/-)	.	.	0.90	1.50	.	.	.	.
Uranium 235 (pCi/L)	.	.	0.00	0.00	.	.	.	.
Uranium 235 (CE+/-)	.	.	1.60	1.50	.	.	.	.
Uranium 238 (pCi/L)	.	.	0.48	0.00	.	.	.	.
Uranium 238 (CE+/-)	.	.	0.90	1.50	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-323		GW-324		GW-325		GW-342	
Location	SPI		S3		S3		BG	
Date Sampled	07/03/91	10/03/91	01/05/91	04/03/91	01/05/91	04/04/91	03/06/91	06/13/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	7.6	3.9	0.8	0.4	5.8	8	3.8	0.5
pH, Field (pH units)	7.2	7.5	8.2	8.2	5.4	5.6	6.5	6.3
Redox, Field (mV)	237	186	267	-59	395	62	245	-32
Sp. Cond., Field (umho/cm)	281	334	197	219	43	62	103	122
Temp, Field (degrees C)	15.6	15.1	13.3	17	13.3	17.5	14.6	16.7
pH, 1 (pH units)	8.1	7.8	6.6	6.8	5.5	5.5	6.4	3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	410	397	157	191	<50	<50	100	109
TDS (mg/L)	214	204	118	120	42	<1	86	88
TSS (mg/L)	1	6	<1	<1	13	1	20	416
Turbidity (NTU)	1.5	0.45	0.45	6.9	6.2	2.3	7.6	105
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.91	3.95	0.91	2.31	2.60	1.49	0.79	6.98
Gross Alpha (CE+/-)	1.40	1.50	1.10	1.30	1.40	1.00	1.50	2.10
Gross Beta (pCi/L)	1.41	5.78	-0.41	4.72	3.89	4.75	4.50	9.97
Gross Beta (CE+/-)	3.20	3.60	3.20	3.20	3.50	3.20	3.50	3.80
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	0.00	0.48	0.00	0.00	0.42	-0.42
Uranium 234 (CE+/-)	.	.	1.40	1.60	1.50	1.50	0.80	0.80
Uranium 235 (pCi/L)	.	.	0.00	0.00	0.00	0.00	-0.42	-0.42
Uranium 235 (CE+/-)	.	.	1.40	1.60	1.50	1.50	0.80	0.80
Uranium 238 (pCi/L)	.	.	0.00	0.48	0.00	0.00	0.00	0.00
Uranium 238 (CE+/-)	.	.	1.40	1.00	1.50	1.50	1.40	1.70

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-342		GW-343				GW-344	
	BG		BG				BG	
	09/05/91	11/05/91	03/07/91	06/14/91	09/05/91	11/07/91	03/09/91	06/15/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4	2	0.2	4.3	3	4	0.4	1.8
pH, Field (pH units)	6.5	6.6	7.8	7.6	7.5	7.6	7.8	7.9
Redox, Field (mV)	31	69	206	270	170	52	202	-156
Sp. Cond., Field (umho/cm)	120	103	213	259	250	277	287	354
Temp, Field (degrees C)	18	14.1	15	19.7	17.2	14.3	14.4	17.2
pH, 1 (pH units)	6.6	6.8	7.3	8.3	7.7	7.7	7	8.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	95	124	278	238	284	291	275	310
TDS (mg/L)	94	108	170	176	144	190	196	188
TSS (mg/L)	114	554	14	11	12	318	6	3
Turbidity (NTU)	85	125	45	35	21	600	8.1	2.5
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	4.97	2.07	0.63	1.40	0.39	2.47	1.42	-0.15
Gross Alpha (CE+/-)	1.80	1.90	1.50	1.40	1.20	2.20	1.60	1.10
Gross Beta (pCi/L)	8.76	2.65	1.29	2.96	6.12	8.58	7.48	0.80
Gross Beta (CE+/-)	3.40	3.00	3.40	3.50	3.30	3.40	3.70	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	0.00	-0.42	.	.	0.42	-0.44
Uranium 234 (CE+/-)	.	.	1.50	0.80	.	.	0.80	0.90
Uranium 235 (pCi/L)	.	.	-0.43	-0.42	.	.	-0.42	-0.44
Uranium 235 (CE+/-)	.	.	0.90	0.80	.	.	0.80	0.90
Uranium 238 (pCi/L)	.	.	0.00	-0.42	.	.	0.00	-0.44
Uranium 238 (CE+/-)	.	.	1.50	0.80	.	.	1.40	0.90

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-344		GW-345		GW-347			GW-348
	BG		S3		S3			S3
	09/08/91	11/07/91	01/16/91	04/14/91	04/04/91	07/02/91	10/02/91	04/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.5	0.8	4.7	4	9.1	7.8	7	1.9
pH, Field (pH units)	8	7.9	5.3	4.8	6.9	6.8	7.1	6.8
Redox, Field (mV)	-120	-93	476	377	179	255	203	220
Sp. Cond., Field (umho/cm)	298	282	182	117	188	182	183	497
Temp, Field (degrees C)	17	12.3	13.3	16.7	16.4	18.4	16.6	14.7
pH, 1 (pH units)	7.9	8.2	6.3	6.4	6.5	7.8	7.4	7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	305	306	3017	433	140	203	316	484
TDS (mg/L)	186	196	424	308	96	166	192	264
TSS (mg/L)	<1	3	3	4	37	16	4	<1
Turbidity (NTU)	1.5	4.6	1.8	1.4	31	5.5	18	2.6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.39	0.46	3.12	1.13	2.09	1.07	1.17	2.54
Gross Alpha (CE+/-)	1.10	1.60	1.70	1.00	1.10	1.30	1.00	1.20
Gross Beta (pCi/L)	8.44	3.23	55.85	44.34	7.65	3.99	4.99	35.56
Gross Beta (CE+/-)	3.70	3.00	5.80	5.10	3.30	3.30	3.50	4.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-348		GW-364				GW-365	
	S3		OLF				OLF	
	07/02/91	10/02/91	02/07/91	05/12/91	08/28/91	10/28/91	02/09/91	05/14/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.6	1.9	5.1	5.5	0.6	1.5	0.1	0.2
pH, Field (pH units)	7.2	7.3	7.4	7	7.2	6.9	7.2	7.3
Redox, Field (mV)	225	177	333	295	193	162	-22	-49
Sp. Cond., Field (umho/cm)	541	478	605	699	564	572	732	963
Temp, Field (degrees C)	16.1	15.8	13.3	17	16.3	15.4	13.5	14.3
pH, 1 (pH units)	7.9	7.7	6.8	6.4	7.5	7.2	6.8	6.5
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	544	550	563	609	685	666	793	838
TDS (mg/L)	318	320	658	.	484	388	510	548
TSS (mg/L)	2	<1	396	373	160	12	2	2
Turbidity (NTU)	2	1.7	400	300	175	26	8.4	11
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.91	1.74	5.13	1.39	4.06	0.17	1.14	3.43
Gross Alpha (CE+/-)	1.30	1.10	1.90	1.50	1.80	1.80	1.30	1.60
Gross Beta (pCi/L)	29.79	34.95	8.18	6.34	15.30	3.36	3.44	3.49
Gross Beta (CE+/-)	4.60	4.90	3.60	3.50	3.90	2.90	3.40	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	-422.00	114.00	.	.	3500.00	617.00
Technetium 99 (CE+/-)	.	.	1600.00	1600.00	.	.	1700.00	1600.00
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-365		GW-366				GW-367	
	OLF		OLF				OLF	
	08/28/91	10/29/91	02/01/91	05/11/91	08/27/91	10/25/91	02/02/91	05/11/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.4	0.1	6.9	6.3	5.5	4.3	4.5	4.1
pH, Field (pH units)	6.9	6.9	7.2	7	7	6.8	7.6	7.6
Redox, Field (mV)	-24	-64	306	243	194	150	301	227
Sp. Cond., Field (umho/cm)	829	861	459	558	460	514	364	393
Temp, Field (degrees C)	19.8	14.9	12.7	13.8	15.4	17.2	13.1	14.4
pH, 1 (pH units)	7.4	7.1	6.9	6.5	7.4	7.4	6.8	6.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	917	912	479	480	595	567	329	333
TDS (mg/L)	500	532	314	342	302	306	208	228
TSS (mg/L)	2	2	59	128	106	6	<1	<1
Turbidity (NTU)	2.9	3.2	60	80	75	7.8	0.45	0.75
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.00	3.10	1.84	2.29	2.13	2.07	5.03	2.94
Gross Alpha (CE+/-)	1.30	2.00	1.40	1.70	1.60	2.00	1.80	1.80
Gross Beta (pCi/L)	6.07	6.10	4.94	6.28	4.00	5.49	7.35	8.88
Gross Beta (CE+/-)	3.40	2.90	3.60	3.50	3.40	3.00	3.70	3.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	445.00	-1940.00	.	.	-1930.00	-1190.00
Technetium 99 (CE+/-)	.	.	1600.00	1600.00	.	.	1600.00	1600.00
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-369		GW-370				GW-371	
	OLF		BG				BG	
	02/10/91	05/15/91	02/28/91	06/10/91	09/09/91	11/14/91	09/09/91	11/14/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	7.2	12.4	3.9	3.1	3.4	3	6.5	4.8
pH, Field (pH units)	9.1	8.3	6.7	6.1	7.1	7.5	7.3	7.6
Redox, Field (mV)	216	148	310	321	223	6	-55	-68
Sp. Cond., Field (umho/cm)	397	526	219	191	214	277	499	625
Temp, Field (degrees C)	12.5	18.1	14.7	18.4	17.1	14.3	17.5	14.3
pH, 1 (pH units)	7.4	5.2	6.8	5.3	7	8.1	7.4	7.8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	430	419	193	216	233	253	591	595
TDS (mg/L)	284	302	268	192	210	180	366	338
TSS (mg/L)	83	93	240	54	50	16	4	18
Turbidity (NTU)	100	60	220	36	30	14	17	48
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.75	2.54	5.05	1.69	4.32	3.47	1.41	1.64
Gross Alpha (CE+/-)	1.40	1.50	1.70	1.40	1.70	2.10	1.30	2.00
Gross Beta (pCi/L)	13.03	20.43	5.13	5.05	5.04	1.82	1.37	1.50
Gross Beta (CE+/-)	3.90	4.20	3.30	3.50	3.50	2.90	3.30	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-372				GW-373			
	BG				BG			
	02/22/91	05/23/91	09/04/91	11/02/91	02/22/91	05/23/91	09/04/91	11/02/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.4	6.9	3.8	7.2	3	2.1	9.3	9.2
pH, Field (pH units)	7	7	7.6	7.2	9.2	8.7	8.4	8.9
Redox, Field (mV)	273	287	208	166	193	203	188	136
Sp. Cond., Field (umho/cm)	387	409	394	382	423	481	446	470
Temp, Field (degrees C)	14.1	16.5	17.7	14.5	14.1	16.2	16.1	13.1
pH, 1 (pH units)	6.8	6.3	7.8	7.5	7.9	6.5	9.1	8.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	287	370	430	440	398	455	499	501
TDS (mg/L)	274	258	262	262	310	292	300	304
TSS (mg/L)	13	21	15	17	3	23	18	6
Turbidity (NTU)	7.7	14	16	17	4.6	14	14	4
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.08	1.82	2.39	2.45	1.15	2.38	1.81	0.52
Gross Alpha (CE+/-)	1.50	1.40	1.50	1.70	1.50	1.50	1.40	1.40
Gross Beta (pCi/L)	1.61	2.52	4.18	5.01	1.20	2.21	2.05	1.43
Gross Beta (CE+/-)	3.30	3.30	3.20	2.80	3.30	3.30	3.00	2.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	0.43	1.32	.	.	0.00	0.00	.	.
Uranium 234 (CE+/-)	0.90	1.50	.	.	1.50	1.50	.	.
Uranium 235 (pCi/L)	0.43	0.44	.	.	0.00	0.00	.	.
Uranium 235 (CE+/-)	0.90	0.90	.	.	1.50	1.50	.	.
Uranium 238 (pCi/L)	0.00	-0.88	.	.	-0.44	-0.87	.	.
Uranium 238 (CE+/-)	1.70	1.20	.	.	0.90	1.20	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-520				GW-526			
	OLF				S3			
	03/25/91	05/12/91	08/27/91	10/24/91	01/16/91	04/13/91	08/02/91	10/06/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.7	8.8	6.1	8	6.3	6.7	5.7	7.4
pH, Field (pH units)	10	10.7	10.6	10.6	8.3	8.4	8.5	8.5
Redox, Field (mV)	2	166	40	45	295	248	192	178
Sp. Cond., Field (umho/cm)	345	743	611	606	5910	5390	5680	5810
Temp, Field (degrees C)	14.2	15.8	15.7	14	13.5	15	16.2	16.7
pH, 1 (pH units)	7.2	6.9	11.1	11	6.6	6.7	7.7	8.1
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	244	279	590	489	6837	6940	6660	6480
TDS (mg/L)	192	292	290	280	5384	5250	5270	5310
TSS (mg/L)	22	14	5	390	3	5	7	20
Turbidity (NTU)	8.4	6.8	1.2	185	3.3	4.6	7.7	18
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.82	2.00	1.56	0.97	0.08	8.84	9.17	7.47
Gross Alpha (CE+/-)	1.30	1.60	1.50	1.90	1.20	9.30	14.00	6.00
Gross Beta (pCi/L)	9.31	10.56	6.10	6.76	-1.59	17.78	-2.04	4.29
Gross Beta (CE+/-)	3.80	3.70	3.50	3.10	3.40	31.90	31.00	12.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	0.86
Americium 241 (CE+/-)	.	.	.	.	.	.	.	1.70
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	0.00	0.87
Neptunium 237 (CE+/-)	.	.	.	.	.	.	3.00	1.20
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	-9.92	0.71
Strontium (CE+/-)	.	.	.	.	.	.	21.00	3.80
Technetium 99 (pCi/L)	-2790.00	-2760.00	.	.	.	.	1100.00	-175.00
Technetium 99 (CE+/-)	1600.00	1600.00	.	.	.	.	1600.00	640.00
Tritium (Bq/L)	.	.	.	.	.	.	3100.00	1.00
Tritium (CE+/-)	.	.	.	.	.	.	100.00	10.00
Uranium 234 (pCi/L)	.	.	.	.	.	.	0.00	-0.43
Uranium 234 (CE+/-)	.	.	.	.	.	.	3.00	0.86
Uranium 235 (pCi/L)	.	.	.	.	.	.	0.00	0.00
Uranium 235 (CE+/-)	.	.	.	.	.	.	3.00	1.50
Uranium 238 (pCi/L)	.	.	.	.	.	.	0.00	0.86
Uranium 238 (CE+/-)	.	.	.	.	.	.	3.00	1.70

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-531		GW-532		GW-533		GW-534	
	OLF		OLF		OLF		OLF	
	03/26/91	06/24/91	03/26/91	06/24/91	03/26/91	06/25/91	03/26/91	06/25/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.2	5	1.4	2.3	1.9	2.7	1.2	1.1
pH, Field (pH units)	5.6	5.7	7.4	7.3	6.5	6.5	7.5	7
Redox, Field (mV)	250	207	257	172	193	138	217	22
Sp. Cond., Field (umho/cm)	54	64	282	325	126	138	420	439
Temp, Field (degrees C)	15.6	21.1	16.2	18.3	16	15.8	17.4	16
pH, 1 (pH units)	5.9	6.6	6.9	7.6	6.3	7.1	7	8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	54	65	287	348	118	158	462	544
TDS (mg/L)	100	150	216	224	104	136	306	314
TSS (mg/L)	934	610	3	22	13	53	6	<1
Turbidity (NTU)	340	180	16	4.1	6	36	2.3	2.6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	12.56	3.11	1.94	0.38	0.45	0.08	0.25	1.11
Gross Alpha (CE+/-)	2.80	1.60	1.70	1.20	0.90	1.10	1.50	1.30
Gross Beta (pCi/L)	15.93	7.26	3.38	1.66	4.01	4.91	9.27	1.13
Gross Beta (CE+/-)	4.20	3.40	3.50	3.00	3.20	3.20	3.80	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-535		GW-537				GW-538	
	OLF		OLF				OLF	
	03/26/91	06/24/91	03/26/91	06/25/91	08/14/91	10/23/91	03/28/91	06/25/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.6	1.3	1	1.9	3.7	1.2	0.3	1.5
pH, Field (pH units)	7	7	7.2	6.6	7	6.7	7.1	7.3
Redox, Field (mV)	41	26	258	122	244	220	166	8
Sp. Cond., Field (umho/cm)	443	455	4590	4650	5630	4500	330	294
Temp, Field (degrees C)	16.1	16.6	15.8	15.3	18.5	16.8	15.7	16
pH, 1 (pH units)	7	7.6	6.7	7	7.4	7	7.2	8.1
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	433	442	5267	5380	5300	4840	297	353
TDS (mg/L)	312	296	4432	4310	4174	4412	208	228
TSS (mg/L)	7	184	22	2	3	4	34	91
Turbidity (NTU)	21	65	1.2	1.5	2.4	1.5	110	34
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.18	0.44	-8.01	0.28	14.50	9.81	1.65	0.85
Gross Alpha (CE+/-)	1.10	1.20	12.80	4.40	13.00	7.00	1.20	1.20
Gross Beta (pCi/L)	4.92	2.39	157.86	234.67	404.43	134.00	5.24	4.85
Gross Beta (CE+/-)	3.20	3.10	41.50	22.10	50.10	17.00	3.30	3.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-601				GW-602			
	OLF				OLF			
	01/25/91	05/04/91	08/30/91	10/31/91	01/25/91	05/06/91	08/22/91	10/18/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.9	2.6	1.1	1.4	0.5	0.8	0.8	0.7
pH, Field (pH units)	7.5	7.5	7.5	7.5	8.8	8.6	8.7	8.6
Redox, Field (mV)	143	17	190	102	49	-219	-97	-223
Sp. Cond., Field (umho/cm)	651	779	711	655	591	678	794	876
Temp, Field (degrees C)	12	14.7	16.6	13.7	12.6	14	14.8	15.1
pH, 1 (pH units)	6.9	6.3	7.7	8.1	6.9	6	8.3	7.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	762	774	830	848	661	763	816	747
TDS (mg/L)	464	460	488	466	508	548	554	606
TSS (mg/L)	6	2	<1	.	2	16	3	4
Turbidity (NTU)	17	2.6	2.7	9.7	0.3	4.4	2	1.7
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.68	3.44	3.24	3.69	2.64	3.70	4.08	4.69
Gross Alpha (CE+/-)	1.60	1.60	1.70	2.00	1.80	1.60	1.90	3.00
Gross Beta (pCi/L)	20.40	23.25	22.50	17.60	16.57	16.42	14.50	8.68
Gross Beta (CE+/-)	4.20	4.50	4.20	3.50	4.10	4.20	3.90	3.33
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-613				GW-614			
	S3				S3			
	01/05/91	04/04/91	07/01/91	10/01/91	01/05/91	04/04/91	07/02/91	10/01/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	3.2	3.3	3	3.9	0.6	0.2	0.1	0.4
pH, Field (pH units)	6.7	6.5	6.5	6.6	7.4	6.9	7.4	7.5
Redox, Field (mV)	273	220	101	188	270	214	-3	-13
Sp. Cond., Field (umho/cm)	195	184	188	160	383	323	348	297
Temp, Field (degrees C)	13.6	14.2	15.4	14.4	13.2	15.2	16.1	14.7
pH, 1 (pH units)	6.5	6.6	7.2	7.1	6.9	6.9	8.2	7.6
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	143	165	221	196	269	305	342	355
TDS (mg/L)	122	142	196	140	212	204	216	218
TSS (mg/L)	<1	21	27	25	<1	6	1	1
Turbidity (NTU)	7.2	6	6.4	13	0.97	0.58	1.5	0.4
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.14	2.24	1.67	1.15	1.99	2.04	1.18	12.10
Gross Alpha (CE+/-)	1.30	1.20	1.40	1.30	1.30	1.10	1.30	2.60
Gross Beta (pCi/L)	-0.62	1.03	0.86	1.84	2.80	3.45	1.83	24.70
Gross Beta (CE+/-)	3.20	3.00	3.10	2.90	3.40	3.10	3.20	4.10
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	0.00	0.00	.	.	0.00	0.00	.	.
Uranium 234 (CE+/-)	1.50	1.60	.	.	1.50	1.40	.	.
Uranium 235 (pCi/L)	0.00	0.46	.	.	0.00	0.00	.	.
Uranium 235 (CE+/-)	1.50	0.90	.	.	1.50	1.40	.	.
Uranium 238 (pCi/L)	0.00	0.00	.	.	0.43	0.00	.	.
Uranium 238 (CE+/-)	1.50	1.60	.	.	0.90	1.40	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-615				GW-616			
	S3				S3			
	01/11/91	04/10/91	08/05/91	10/08/91	01/12/91	04/12/91	07/27/91	10/07/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.4	1.1	2.2	0.5	0.4	0.9	1	1.1
pH, Field (pH units)	6	6.6	6.2	6.7	9	9.5	9	9
Redox, Field (mV)	90	72	150	-40	684	141	131	122
Sp. Cond., Field (umho/cm)	51000	47800	50300	49100	2070	2310	2500	2280
Temp, Field (degrees C)	14.7	17	18.8	16.5	12.6	14.8	18.7	15.6
pH, 1 (pH units)	6.2	6.4	6.9	6.2	8.7	8.4	9	8.8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	44400	44100	46300	45500	2327	2757	2730	2720
TDS (mg/L)	62086	59064	60536	884	1722	2022	2048	2006
TSS (mg/L)	21	101	107	33	13	8	17	14
Turbidity (NTU)	26	19	4.8	6.5	14	28	20	17
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	540.00	586.70	439.00	342.00	9.76	6.40	-0.09	7.24
Gross Alpha (CE+/-)	180.00	194.70	190.00	150.00	14.90	1.80	4.00	5.90
Gross Beta (pCi/L)	964.00	918.81	764.00	827.00	-24.87	4.10	-15.63	18.60
Gross Beta (CE+/-)	370.00	357.00	350.00	180.00	34.50	3.30	12.90	13.00
Americium 241 (pCi/L)	.	.	.	4.51	.	.	.	.
Americium 241 (CE+/-)	.	.	.	3.90	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	23.70	12.30	.	.	.	.
Neptunium 237 (CE+/-)	.	.	15.00	14.00	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	-2.67	144.00	.	.	.	.
Strontium (CE+/-)	.	.	22.00	11.00	.	.	.	.
Technetium 99 (pCi/L)	.	.	114.00	1600.00	.	.	.	.
Technetium 99 (CE+/-)	.	.	1600.00	1700.00	.	.	.	.
Tritium (Bq/L)	.	.	12.00	22.00	.	.	.	.
Tritium (CE+/-)	.	.	30.00	32.00	.	.	.	.
Uranium 234 (pCi/L)	.	.	76.30	0.00	.	.	.	.
Uranium 234 (CE+/-)	.	.	26.00	17.00	.	.	.	.
Uranium 235 (pCi/L)	.	.	19.60	0.00	.	.	.	.
Uranium 235 (CE+/-)	.	.	13.00	19.00	.	.	.	.
Uranium 238 (pCi/L)	.	.	242.00	56.70	.	.	.	.
Uranium 238 (CE+/-)	.	.	46.00	31.00	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-621				GW-622			
	BG				BG			
	03/20/91	06/20/91	09/10/91	11/16/91	03/20/91	06/20/91	09/25/91	12/21/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	5.3	2.7	3.2	4.2	2.3	1.2	1.8	0.9
pH, Field (pH units)	7.4	7.7	7.2	7.6	6.6	7	7.2	5.9
Redox, Field (mV)	257	118	217	67	254	192	100	104
Sp. Cond., Field (umho/cm)	338	325	382	367	288	335	351	270
Temp, Field (degrees C)	15.7	15	15	15	18.2	16.9	16.6	14.4
pH, 1 (pH units)	6.9	8.2	7.5	7.42	6.7	7.3	7.3	7.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	352	354	445	381	334	352	373	344
TDS (mg/L)	266	206	278	248	196	212	222	204
TSS (mg/L)	25	16	14	40	<1	<1	4	2
Turbidity (NTU)	40	25	16	52	1.4	0.35	2.6	3.2
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	4.73	4.29	5.44	4.25	1.46	0.81	2.15	0.00
Gross Alpha (CE+/-)	1.60	1.90	1.80	2.20	1.10	1.30	1.40	2.10
Gross Beta (pCi/L)	15.73	4.75	29.28	14.10	4.33	-0.81	-1.26	1.91
Gross Beta (CE+/-)	3.80	3.60	4.60	3.60	3.20	3.30	3.40	2.90
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-623				GW-624		GW-626	
	BG				BG		BG	
	03/24/91	06/21/91	09/26/91	12/22/91	03/24/91	06/21/91	03/23/91	06/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.5	5.8	1.7	2.4	7.3	1	5.5	5.5
pH, Field (pH units)	9.9	10.2	9.8	9.7	7.4	7	8	8
Redox, Field (mV)	203	65	36	12	-9	179	258	174
Sp. Cond., Field (umho/cm)	1514	1524	1352	1501	370	526	197	189
Temp, Field (degrees C)	16.1	23	16.7	13.2	14.5	17.4	13.8	16.3
pH, 1 (pH units)	9.8	10	9.6	9.6	7	7.9	6.9	8.3
Phenols (mg/L)	.	.	.	.	.	.	<0.03	<0.05
Sp. Cond., 1 (umho/cm)	1451	1720	1611	1482	375	563	178	205
TDS (mg/L)	918	904	932	912	198	346	128	112
TSS (mg/L)	40	1150	37	14	44	23	2	3
Turbidity (NTU)	25	210	22	9	110	25	0.16	0.25
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	4.47	15.35	5.08	1.80	1.85	1.37	1.82	0.68
Gross Alpha (CE+/-)	1.60	2.90	1.90	4.30	1.70	1.50	1.10	1.40
Gross Beta (pCi/L)	8.51	15.34	9.39	9.74	3.41	6.81	5.38	6.54
Gross Beta (CE+/-)	3.50	4.20	3.40	3.50	3.50	3.70	3.30	3.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-626		GW-627				GW-629	
	BG		BG				BG	
	09/26/91	12/22/91	03/24/91	06/22/91	09/25/91	12/18/91	03/26/91	06/22/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.1	1.5	0.4	0.8	0.8	0.5	0.1	0.8
pH, Field (pH units)	8.3	8.1	9.2	8.9	9	9	8.8	9
Redox, Field (mV)	152	162	182	-86	-123	-70	68	-14
Sp. Cond., Field (umho/cm)	181	234	1187	1100	1129	1108	831	849
Temp, Field (degrees C)	16.3	13	15.5	16	14.6	14.1	15.4	16.8
pH, 1 (pH units)	8	7.9	9	9.3	8.8	9.06	9	9.3
Phenols (mg/L)	.	.	<0.03	<0.05	.	.	<0.03	<0.05
Sp. Cond., 1 (umho/cm)	219	241	1117	1205	1193	1165	892	1014
TDS (mg/L)	140	148	702	708	710	750	710	596
TSS (mg/L)	<1	<1	<1	<1	1	<1	<1	3
Turbidity (NTU)	0.15	0.32	0.43	0.35	0.3	0.8	3	0.55
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.40	0.75	-11.27	-0.51	3.41	-1.49	3.61	0.48
Gross Alpha (CE+/-)	1.50	2.10	12.20	1.00	1.60	20.00	1.50	1.30
Gross Beta (pCi/L)	-0.42	4.46	-34.91	3.41	-1.58	-21.40	3.87	-1.76
Gross Beta (CE+/-)	3.40	3.00	31.60	3.20	3.30	31.00	3.20	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-630				GW-636			
	OLF				OLF			
	03/26/91	06/25/91	08/09/91	10/14/91	02/11/91	05/16/91	08/21/91	10/18/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.8	1	1.7	2.2	0.4	0.3	0.2	0.4
pH, Field (pH units)	7.6	7.2	7	6.8	8.2	8.2	8	8.4
Redox, Field (mV)	235	129	173	229	233	-124	150	-95
Sp. Cond., Field (umho/cm)	308	327	350	349	299	337	348	330
Temp, Field (degrees C)	16.1	15.9	16.8	16.1	13.4	16.3	14.9	14.1
pH, 1 (pH units)	6.9	8.2	7.7	7.6	7.1	6.2	8.4	7.8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	326	393	431	369	266	326	323	387
TDS (mg/L)	216	236	238	260	200	236	204	236
TSS (mg/L)	5	1	<1	3	<1	<1	<1	<1
Turbidity (NTU)	1.4	1.6	0.65	6.6	1.6	3.4	0.6	1.3
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.20	0.56	0.89	0.46	0.05	0.02	0.26	0.96
Gross Alpha (CE+/-)	1.60	1.20	1.20	1.80	1.10	1.10	1.40	1.90
Gross Beta (pCi/L)	1.00	1.97	4.70	3.81	4.34	1.53	2.62	5.33
Gross Beta (CE+/-)	3.40	3.10	3.40	2.90	3.40	3.30	3.30	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	-103.00	-1530.00	.	.
Technetium 99 (CE+/-)	.	.	.	.	1600.00	1500.00	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-637				GW-638			
	OLF				OLF			
	02/12/91	05/17/91	08/20/91	10/17/91	02/12/91	05/17/91	08/20/91	10/17/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.3	4.2	2.1	4	8.6	6	5.4	9.6
pH, Field (pH units)	7.4	7.6	7.6	7.3	7.2	7.2	7.1	7.2
Redox, Field (mV)	210	180	118	125	319	210	156	352
Sp. Cond., Field (umho/cm)	348	368	348	349	536	481	504	466
Temp, Field (degrees C)	13.2	18.2	17.8	14.7	10.9	17.1	19.5	16.4
pH, 1 (pH units)	6.8	6.3	7.8	7.4	7.2	6.5	7.7	7.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	220	323	446	551	430	534	683	1455
TDS (mg/L)	232	254	236	254	400	418	480	490
TSS (mg/L)	3	4	3	5	117	42	25	502
Turbidity (NTU)	4.4	2.7	1.2	3.6	90	100	80	250
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.18	3.83	0.91	0.46	7.17	4.82	6.48	7.94
Gross Alpha (CE+/-)	1.30	1.70	1.20	1.80	2.20	1.80	2.20	3.10
Gross Beta (pCi/L)	0.51	3.61	-0.26	0.99	16.75	9.19	14.17	12.80
Gross Beta (CE+/-)	3.20	3.40	3.20	2.80	4.10	3.70	3.90	3.50
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	137.00	-3380.00	.	.	-1140.00	388.00	.	.
Technetium 99 (CE+/-)	1600.00	1500.00	.	.	1500.00	1600.00	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-639				GW-640			
	BG				BG			
	03/25/91	06/22/91	09/09/91	11/16/91	03/25/91	06/22/91	09/09/91	11/15/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.6	0.5	0.8	1	5.3	5	5	4.4
pH, Field (pH units)	9.3	9.3	9.3	9.3	5.9	5.4	6.4	6.2
Redox, Field (mV)	66	17	-21	-22	205	225	274	211
Sp. Cond., Field (umho/cm)	907	843	816	906	93	86	89	106
Temp, Field (degrees C)	16.5	18.1	16.6	14.7	15.9	16.1	16	15
pH, 1 (pH units)	9	9.4	9.1	8.97	6.1	6.6	6.4	6.29
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	92	925	919	901	75	96	107	107
TDS (mg/L)	580	528	582	556	86	82	84	80
TSS (mg/L)	8	12	11	17	4	6	2	5
Turbidity (NTU)	11	12	26	25	3.9	0.9	0.9	2.4
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.93	1.51	2.15	1.23	-0.33	0.06	0.44	1.88
Gross Alpha (CE+/-)	1.70	1.40	1.40	2.30	1.40	1.10	1.10	1.80
Gross Beta (pCi/L)	2.13	1.32	1.42	3.61	1.92	2.51	0.14	0.00
Gross Beta (CE+/-)	3.50	3.00	3.30	3.20	3.50	3.10	3.20	2.80
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-641				GW-642			
	BG				BG			
	03/25/91	06/22/91	09/09/91	11/15/91	03/09/91	06/15/91	09/04/91	11/03/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	6.7	8.2	5.7	5.8	1.4	3.5	0.6	2.6
pH, Field (pH units)	5.4	4.8	5.7	6	6.3	5.7	6.2	6.4
Redox, Field (mV)	288	335	295	202	283	202	-32	18
Sp. Cond., Field (umho/cm)	40	38	44	46	177	152	136	130
Temp, Field (degrees C)	15.3	19	18.3	16.8	15.2	18.3	17.5	13.4
pH, 1 (pH units)	5.4	6.1	5.8	5.8	6.3	7	6.7	6.1
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	<50	30	43	45	148	143	144	135
TDS (mg/L)	68	50	52	58	114	112	102	108
TSS (mg/L)	6	14	17	159	27	30	48	35
Turbidity (NTU)	6.1	3.4	15	70	36	31	42	39
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.76	0.69	0.70	0.85	0.29	1.19	3.86	1.63
Gross Alpha (CE+/-)	1.30	1.20	1.10	1.60	1.50	1.40	1.70	1.40
Gross Beta (pCi/L)	-0.86	1.69	1.22	1.23	0.58	2.93	5.10	5.19
Gross Beta (CE+/-)	3.30	3.00	3.30	2.90	3.30	3.50	3.20	2.80
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	0.43	3.46	.	.
Uranium 234 (CE+/-)	.	.	.	.	0.90	2.70	.	.
Uranium 235 (pCi/L)	.	.	.	.	0.00	-0.43	.	.
Uranium 235 (CE+/-)	.	.	.	.	1.70	0.90	.	.
Uranium 238 (pCi/L)	.	.	.	.	0.00	-0.43	.	.
Uranium 238 (CE+/-)	.	.	.	.	1.50	0.90	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-643				GW-644			
	BG				OLF			
	02/27/91	06/08/91	09/04/91	11/03/91	01/31/91	05/10/91	08/20/91	10/17/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	5.6	3.4	5	4.7	2.5	1.2	3.2	16.5
pH, Field (pH units)	5.6	5.5	5.9	6.1	5.7	6.2	6.5	5.8
Redox, Field (mV)	346	372	199	115	346	239	236	446
Sp. Cond., Field (umho/cm)	72	105	70	130	144	170	204	159
Temp, Field (degrees C)	15.2	16.5	16.1	15	11.4	14.1	16.1	14.1
pH, 1 (pH units)	6	3	6.4	5.6	6.3	4.1	6.9	7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	96	88	141	79	119	136	219	235
TDS (mg/L)	160	134	114	94	106	102	116	198
TSS (mg/L)	2194	211	55	39	9	30	10	486
Turbidity (NTU)	1000	170	29	21	2.7	16	12	260
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	7.59	0.61	2.96	2.37	0.63	0.07	0.83	1.36
Gross Alpha (CE+/-)	2.10	1.20	1.60	1.60	1.30	1.20	1.50	1.90
Gross Beta (pCi/L)	9.39	4.40	5.38	1.81	3.91	3.59	1.95	2.72
Gross Beta (CE+/-)	3.80	3.50	3.20	2.50	3.50	3.10	3.30	2.90
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	-0.44	0.82	.	.	.	.	.	.
Uranium 234 (CE+/-)	0.90	1.60	.	.	.	.	.	.
Uranium 235 (pCi/L)	0.00	0.41	.	.	.	.	.	.
Uranium 235 (CE+/-)	1.50	0.80	.	.	.	.	.	.
Uranium 238 (pCi/L)	0.44	0.00	.	.	.	.	.	.
Uranium 238 (CE+/-)	0.90	1.40	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-645				GW-646			
	OLF				OLF			
	02/12/91	05/17/91	08/22/91	10/18/91	01/31/91	05/10/91	08/22/91	10/21/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	6.7	5.6	8.9	5.3	1.3	0.3	0.5	0.5
pH, Field (pH units)	7	7.7	7.6	7.3	7.2	7.1	7.2	7.1
Redox, Field (mV)	355	200	95	228	55	98	-53	-211
Sp. Cond., Field (umho/cm)	336	369	481	456	1010	1184	1068	1120
Temp, Field (degrees C)	12.9	16	15.7	11.2	12.1	13.8	14.5	14
pH, 1 (pH units)	7.6	6.5	7.7	7.7	6.8	6.3	7.3	9.5
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	329	380	489	460	1105	1071	1030	524
TDS (mg/L)	212	252	242	274	878	830	816	974
TSS (mg/L)	5	17	8	54	1	19	2	<1
Turbidity (NTU)	4.9	15	14	58	3.6	15	6.7	14
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.63	3.60	0.78	3.78	6.39	4.84	6.42	9.81
Gross Alpha (CE+/-)	1.50	1.70	1.50	2.30	2.10	2.00	2.20	4.00
Gross Beta (pCi/L)	1.70	3.09	3.18	4.24	17.32	18.48	24.30	17.80
Gross Beta (CE+/-)	3.30	3.40	3.30	3.00	4.10	4.10	4.40	3.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	-525.00	959.00	.	.	-674.00	-274.00	.	.
Technetium 99 (CE+/-)	1600.00	1600.00	.	.	1600.00	1600.00	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-647				GW-648			
	OLF				RS			
	02/01/91	05/10/91	08/26/91	10/21/91	01/15/91	05/01/91	07/03/91	10/03/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.5	2.1	6.2	15.4	6.6	7.8	7.7	5.2
pH, Field (pH units)	7.3	7.5	7.2	7.8	7.3	7.2	7.3	7.3
Redox, Field (mV)	325	116	205	5	273	277	163	219
Sp. Cond., Field (umho/cm)	471	595	498	518	355	283	248	297
Temp, Field (degrees C)	11.3	16.2	18.6	15.8	12	13.6	15.7	14.3
pH, 1 (pH units)	6.9	6.2	7.8	7.8	7.1	6.3	7.9	7.7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	507	541	608	527	297	305	355	344
TDS (mg/L)	362	370	374	372	150	182	192	164
TSS (mg/L)	8	15	<1	5	40	2	1	5
Turbidity (NTU)	5.5	20	0.3	6	9.9	1.8	0.5	0.91
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.76	1.45	0.47	3.78	1.16	8.13	4.56	2.22
Gross Alpha (CE+/-)	1.50	1.60	1.30	2.10	1.50	2.20	1.80	1.20
Gross Beta (pCi/L)	6.10	7.57	3.58	7.99	-0.78	19.61	3.32	1.34
Gross Beta (CE+/-)	3.60	3.60	3.40	3.10	3.50	4.30	3.30	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	0.10	0.01	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	1.30	0.75	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	-353.00	-320.00	.	.	764.00	-1470.00	.	.
Technetium 99 (CE+/-)	1600.00	1600.00	.	.	1500.00	1600.00	.	.
Tritium (Bq/L)	.	.	.	.	14.00	37.00	.	.
Tritium (CE+/-)	.	.	.	.	33.00	25.00	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-649				GW-651			
	OLF				BG			
	01/06/91	04/06/91	07/02/91	10/02/91	03/23/91	06/21/91	09/15/91	11/23/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	3.3	1.3	1.9	2	5.2	3.8	5.2	7.9
pH, Field (pH units)	6.6	7	6.5	6	7.6	7.5	7.8	7.7
Redox, Field (mV)	354	145	181	214	231	102	158	103
Sp. Cond., Field (umho/cm)	205	217	201	147	378	380	339	357
Temp, Field (degrees C)	12.8	16.1	15.8	15.6	13.8	15	16.6	14.2
pH, 1 (pH units)	6.5	6.6	7.5	7	7.1	8	7.9	7.7
Phenols (mg/L)	.	.	.	.	<0.03	<0.05	.	.
Sp. Cond., 1 (umho/cm)	178	201	225	186	371	335	373	379
TDS (mg/L)	146	122	174	132	302	138	200	226
TSS (mg/L)	2	1	<1	19	3	6	16	4
Turbidity (NTU)	2.2	1.1	0.9	21	1.8	13	5.2	4.6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.31	1.83	0.37	2.18	3.91	2.14	6.79	0.00
Gross Alpha (CE+/-)	1.20	1.10	1.20	1.20	1.50	1.60	1.90	1.50
Gross Beta (pCi/L)	0.77	4.40	2.29	-0.95	5.54	2.46	6.10	3.23
Gross Beta (CE+/-)	3.30	3.20	3.20	3.20	3.30	3.50	3.30	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	-1540.00	-22.80	.	.	.	.	.	.
Technetium 99 (CE+/-)	1500.00	1600.00	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	0.00	0.00	.	.	.	.	.	.
Uranium 234 (CE+/-)	1.50	1.60	.	.	.	.	.	.
Uranium 235 (pCi/L)	0.00	0.00	.	.	.	.	.	.
Uranium 235 (CE+/-)	1.50	1.60	.	.	.	.	.	.
Uranium 238 (pCi/L)	0.00	0.00	.	.	.	.	.	.
Uranium 238 (CE+/-)	1.50	1.60	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-652				GW-653			
	BG				BG			
	03/23/91	06/21/91	09/14/91	11/23/91	03/23/91	06/21/91	09/15/91	12/11/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.6	1.4	2.6	1.1	7.9	6.2	5.5	5
pH, Field (pH units)	7.4	7.2	7.3	7.4	5.4	5.2	5.5	5.6
Redox, Field (mV)	246	125	118	69	392	307	242	172
Sp. Cond., Field (umho/cm)	405	292	386	405	34	25	44	33
Temp, Field (degrees C)	13.7	26.6	17.5	14.4	15.4	14.8	16.6	14.2
pH, 1 (pH units)	7	7.7	7.6	7.4	5.7	6	5.9	5.82
Phenols (mg/L)	<0.03	<0.05	.	.	<0.03	<0.05	.	.
Sp. Cond., 1 (umho/cm)	408	412	379	426	56	30	37	33
TDS (mg/L)	296	230	228	290	86	52	82	50
TSS (mg/L)	4	3	1	29	337	541	107	17
Turbidity (NTU)	15	7.5	0.85	62	140	180	46	175
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	3.65	0.73	1.81	1.70	3.66	6.60	2.63	2.00
Gross Alpha (CE+/-)	1.40	1.40	1.30	1.80	1.40	2.00	1.40	1.50
Gross Beta (pCi/L)	5.44	0.61	7.23	2.07	8.12	6.92	9.56	4.50
Gross Beta (CE+/-)	3.30	3.40	3.40	3.00	3.40	3.40	3.50	2.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-654				GW-655			
	BG				3G			
	03/09/91	06/15/91	09/14/91	11/23/91	03/09/91	06/15/91	09/05/91	11/05/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	5.5	1.4	2.8	1.6	0.5	5.5	1	1.7
pH, Field (pH units)	7.2	6.9	7.3	7.3	5.9	6.1	5.8	6.8
Redox, Field (mV)	239	155	22	44	273	336	188	104
Sp. Cond., Field (umho/cm)	239	256	273	272	96	105	90	91
Temp, Field (degrees C)	11.2	19	19.3	15.8	14.3	23.2	16.6	12.5
pH, 1 (pH units)	6.7	7.7	7.7	7.3	6.3	7.2	6.5	7.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	208	249	261	281	104	96	98	97
TDS (mg/L)	170	164	192	254	84	112	134	94
TSS (mg/L)	15	4	15	269	42	73	335	107
Turbidity (NTU)	19	8.6	24	330	17	55	100	100
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.57	1.18	1.73	0.47	0.59	14.22	4.92	5.77
Gross Alpha (CE+/-)	1.60	1.40	1.30	1.60	1.00	2.80	1.80	2.40
Gross Beta (pCi/L)	0.52	1.38	2.99	-1.33	2.82	17.90	10.33	3.59
Gross Beta (CE+/-)	3.30	3.40	3.10	2.80	3.40	4.20	3.50	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	0.82	0.95	.	.	0.00	0.87	.	.
Uranium 234 (CE+/-)	1.20	1.90	.	.	1.40	1.70	.	.
Uranium 235 (pCi/L)	-0.41	0.00	.	.	-0.42	0.00	.	.
Uranium 235 (CE+/-)	0.80	1.90	.	.	0.80	1.70	.	.
Uranium 238 (pCi/L)	0.41	0.00	.	.	0.00	0.00	.	.
Uranium 238 (CE+/-)	0.80	1.90	.	.	1.40	1.70	.	.

(CONTINUED)

APPENDIX B
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-683			GW-684			GW-685	
	EXP			EXP			EXP	
	05/24/91	09/19/91	12/12/91	05/30/91	09/19/91	12/12/91	06/01/91	09/18/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.2	2.7	6.6	3.6	2.5	5.9	8.2	0.3
pH, Field (pH units)	7	7.1	7	7.3	7.5	7.6	7.4	7.2
Redox, Field (mV)	333	135	172	143	140	160	157	-60
Sp. Cond., Field (umho/cm)	485	579	377	438	571	398	603	598
Temp, Field (degrees C)	14.8	13.7	13.1	14.5	13.8	13.6	19	17
pH, 1 (pH units)	6.2	7.9	7.13	6.2	7.4	7.13	6.5	7.3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	423	690	382	405	722	382	577	623
TDS (mg/L)	258	404	212	266	414	224	348	372
TSS (mg/L)	4	<1	3	<1	3	<1	18	7
Turbidity (NTU)	0.51	0.25	7.1	2.8	4	3.2	41	12
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	19.89	27.80	12.60	14.89	1.59	12.80	2.73	2.87
Gross Alpha (CE+/-)	3.20	3.60	3.20	2.80	1.20	3.20	1.50	1.40
Gross Beta (pCi/L)	37.65	93.20	27.40	36.26	-2.39	34.30	7.66	8.68
Gross Beta (CE+/-)	4.90	6.60	4.00	4.90	2.80	4.30	3.60	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-685	GW-694			GW-695			GW-703
Location	EXP	EXP			EXP			EXP
Date Sampled	12/12/91	06/19/91	09/13/91	11/22/91	06/18/91	09/13/91	11/22/91	06/18/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	8.1	3.5	1	3.2	7.2	9.2	9.9	6.8
pH, Field (pH units)	7.7	7.3	6.6	6.9	8.6	8.4	8.5	8.4
Redox, Field (mV)	35	-35	-57	-2	114	97	190	109
Sp. Cond., Field (umho/cm)	615	590	994	802	437	351	391	382
Temp, Field (degrees C)	14.2	14.8	15.7	13.3	16.1	18	12.1	16.3
pH, 1 (pH units)	7.38	7.1	7	7.2	8.6	8.4	8.5	8.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	634	603	1020	815	458	375	398	406
TDS (mg/L)	350	372	662	476	288	228	212	240
TSS (mg/L)	3	<1	2	5	90	328	30	5
Turbidity (NTU)	5.5	6	3	8.6	55	185	17	19
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.35	23.68	55.48	48.80	4.59	6.16	5.08	2.15
Gross Alpha (CE+/-)	1.80	3.50	5.10	6.00	1.80	1.90	2.40	1.50
Gross Beta (pCi/L)	8.68	48.38	143.17	131.00	15.89	12.13	14.00	4.37
Gross Beta (CE+/-)	3.10	5.40	7.90	7.20	4.20	3.60	3.60	3.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-703		GW-704			GW-705		
	EXP		EXP			EXP		
	09/11/91	11/18/91	06/20/91	09/12/91	11/19/91	06/20/91	09/10/91	09/11/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	8.7	5.8	2.4	1.8	0.5	1.8	1.7	5.3
pH, Field (pH units)	8.3	8	7.6	7.6	7.6	8.9	8.7	8.6
Redox, Field (mV)	110	113	100	-67	-86	-65	194	107
Sp. Cond., Field (umho/cm)	354	432	476	416	502	959	1303	827
Temp, Field (degrees C)	16.4	14.8	14.6	16.4	14.8	17.1	17.8	17.8
pH, 1 (pH units)	8.2	7.9	7.8	7.9	7.86	9	8.8	.
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	371	435	520	455	518	1006	1350	.
TDS (mg/L)	232	250	306	294	298	618	660	.
TSS (mg/L)	9	24	2	10	16	76	38	.
Turbidity (NTU)	18	68	7.3	17	29	450	55	.
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.42	3.40	1.60	2.32	2.09	1.97	3.90	.
Gross Alpha (CE+/-)	1.40	2.10	1.40	1.40	1.90	1.50	1.60	.
Gross Beta (pCi/L)	5.06	10.50	3.59	5.28	3.33	5.27	3.80	.
Gross Beta (CE+/-)	3.20	3.40	3.60	3.30	3.00	3.70	3.20	.
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-705	GW-706			GW-710	GW-711	GW-712
Location	EXP	EXP			EXP	EXP	EXP
Date Sampled	11/17/91	06/20/91	09/13/91	11/19/91	12/05/91	12/10/91	12/09/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.
DO, Field (ppm)	0.8	4.2	0.2	0.3	0.3	0.2	0.1
pH, Field (pH units)	9	8	7.1	7.3	7.5	7.4	7.9
Redox, Field (mV)	12	70	-87	-46	-44	-140	-95
Sp. Cond., Field (umho/cm)	1309	457	1017	1457	4460	7160	1260
Temp, Field (degrees C)	16.1	15.6	16.3	14.1	10.8	14.5	14
pH, 1 (pH units)	8.7	8.3	7.2	7.9	7.1	7.05	7.55
Phenols (mg/L)	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	1623	498	1030	1230	4800	7900	1207
TDS (mg/L)	960	262	638	734	4420	5978	898
TSS (mg/L)	19	3	13	1	30	27	11
Turbidity (NTU)	20	2.5	85	1.4	95	66	54
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.62	4.58	24.84	58.40	32.30	23.80	1.76
Gross Alpha (CE+/-)	2.00	1.90	3.40	7.10	21.00	22.00	2.30
Gross Beta (pCi/L)	0.86	21.84	67.36	197.00	48.60	22.40	5.65
Gross Beta (CE+/-)	3.00	4.40	5.80	8.70	29.00	27.00	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.

APPENDIX E

GROUNDWATER AND SURFACE-WATER QUALITY DATA

EXPLANATION

LOCATION:

BG - Bear Creek Burial Grounds WMA
EXP - Exit-Pathway Monitoring Well
OLF - Oil Landfarm WMA
S3 - S-3 Site
SPI - Spoil Area I
RS - Rust Spoil Area

ALL DATA:

. - Not Analyzed

VOLATILE ORGANIC COMPOUNDS:

All results in micrograms per Liter (ug/L).

Compound not detected at the following minimum attainable detection limits (ug/L):

G =	5	T =	250
N =	10	F =	300
V =	20	E =	400
Z =	25	W =	500
D =	30	L =	1000
A =	40	P =	2000
M =	50	H =	4000
X =	80	J =	5000
Y =	90	S =	10000
K =	100	U =	20000
B =	130	C =	40000
R =	200		

EXPLANATION cont'd

METALS, MAJOR IONS, MISCELLANEOUS, AND RADIOLOGICAL PARAMETERS:

All analyses are by Inductively Coupled Plasma (ICP) Spectroscopy unless otherwise noted.

Bicarbonate and carbonate alkalinity reported as CaCO_3 .

<	- Compound analyzed but not detected at the given minimum attainable detection limit
mg/L	- milligrams per Liter
AAS	- Atomic Absorption Spectroscopy
CVAA	- Cold Vapor Atomic Absorption
DIS	- Dissolved Concentration (Filtered Sample)
TOT	- Total Concentration (Unfiltered Sample)
Fluor	- Fluorometric
DO	- Dissolved Oxygen
TOC	- Total Organic Carbon
TOX	- Total Organic Halogens
TDS	- Total Dissolved Solids
TSS	- Total Suspended Solids
Temp.	- Water Temperature
Sp. Cond.	- Specific Conductance
ppm	- parts per million
umho/cm	- micromhos per centimeter
NTU	- Nephelometric Turbidity Unit
mV	- millivolts
pCi/L	- picoCuries per liter
Bq/L	- Becquerels per liter
CE +/-	- Counting Error (two standard deviations)
11111	- None Found
99999	- Off Scale
88888	- Flowing Artesian Well

TRACE METALS AND MAJOR IONS

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-005				GW-013			
	OLF				OLF			
	01/26/91		05/09/91		01/28/91		05/02/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	2	0.084	0.39	0.023	0.022	0.056	<0.02	0.078
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.43	0.33	0.23	0.21	0.51	0.51	0.53	0.51
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00031	0.0003
Boron	0.34	0.19	0.45	0.49	0.015	0.022	0.013	0.042
Cadmium (AAS)	0.0073	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.0048	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	0.01	<0.01	0.011	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.014	<0.004	0.0065	<0.004	0.0073	<0.004	0.012	0.0082
Iron	8.4	0.015	3	0.047	2	0.98	3.4	1.1
Lead (AAS)	0.079	<0.004	0.0081	<0.004	<0.004	<0.004	0.0054	<0.004
Mercury (CVAA)	0.0097	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	0.00027	<0.0002
Molybdenum	<0.01	0.016	0.02	0.022	<0.01	<0.01	<0.01	<0.01
Nickel	0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.8	2.7	7.5	7	9.1	8.9	8.7	9.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.0072	<0.006
Strontium	0.5	0.5	0.41	0.4	0.22	0.22	0.23	0.23
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.062	0.057	0.022	0.022	<0.001	<0.001	<0.001	<0.001
Vanadium	0.0077	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.14	0.01	0.01	<0.002	0.0096	0.0072	0.011	0.0062
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	261	.	204	.	72	.	320	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	84	85	60	59	110	110	100	100
Chloride	4	.	3	.	6	.	6	.
Fluoride	1.6	.	1.88	.	<0.1	.	<0.1	.
Magnesium	16	16	11	13	13	13	12	13
Manganese	1.3	1.1	0.57	0.5	1	1	1.1	1.1
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	7.7	7.5	8.5	8.4	1.6	1.6	1.7	1.7
Sodium	6.7	7.1	6.4	6.3	4.1	4.5	4.5	4.6
Sulfate	36	.	12	.	4	.	4	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-013				GW-018			
	OLF				BG			
	08/19/91		10/17/91		03/21/91		06/20/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.033	<0.02	<0.02	<0.02	<0.02	<0.02	1	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.46	0.46	0.48	0.49	0.039	0.032	0.079	0.076
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.022	0.018	0.018	0.014	<0.004	<0.004	0.058	0.074
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0021
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.031	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.018	0.022	0.023	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0069	0.0051	<0.004	<0.004	0.015	<0.004
Iron	1.4	1.1	1.3	1.2	0.032	<0.005	1.1	0.021
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0042	<0.0042
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.025	0.015
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	4	4.7	8.3	6.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.022
Strontium	0.2	0.2	0.21	0.21	0.016	0.019	0.19	0.2
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0074	0.019	0.024	0.0062	0.018	0.0054	0.041	0.03
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	292	.	298	.	19	.	18	.
Alkalinity-CO3	<1	.	<1	.	<1	.	2	.
Calcium	100	110	100	98	6.4	8.2	10	6
Chloride	5	.	5	.	2	.	2	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	12	13	12	11	0.62	0.64	1.3	0.85
Manganese	1.1	1.2	0.95	0.98	0.011	0.0059	0.11	0.087
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.7	2	2.1	1.8	0.91	1.1	0.95	1.3
Sodium	3.8	3.8	4.1	4.1	1.1	1.1	1.4	1.6
Sulfate	4	.	5	.	2	.	1	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-037				GW-040		GW-042	
	BG				BG		BG	
	03/09/91		06/14/91		11/12/91		03/05/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.067	<0.02	<0.02	0.28	<0.02	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.071	0.07	0.1	0.12	0.078	0.076	0.12	0.12
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.023	0.016	0.02	0.015	0.025	0.022	0.025	0.0066
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.023	0.031
Cadmium	0.0061	<0.003	<0.003	<0.003	<0.003	<0.003	0.029	0.036
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0055	<0.004	<0.004	<0.004	0.0051	0.012	0.0066	0.0076
Iron	1.7	1.7	0.68	0.013	1.3	0.58	1.2	1
Lead (AAS)	<0.004	<0.004	0.02	<0.004	0.0055	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.024	0.023
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	13	12	12	12	.	.	9.5	8.6
Silver	0.0082	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.13	0.13	0.13	0.12	0.09	0.14	0.014	0.013
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.055	0.054	0.0072	<0.002	0.033	0.016	0.036	0.05
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	166	.	166	.	41	.	25	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	42	42	35	35	7.8	7.5	3.2	3.1
Chloride	1	.	<5	.	2	.	1	.
Fluoride	0.3	.	0.29	.	0.3	.	0.2	.
Magnesium	14	14	14	14	6.7	5.9	3.6	3.3
Manganese	1.2	1.2	1.1	0.93	1.1	0.84	0.24	0.22
Nitrate-N	<0.2	.	<1	.	<0.2	.	<0.2	.
Potassium	2	1.9	2	2	1.7	2.5	0.82	0.78
Sodium	12	11	12	12	13	14	2.6	2.3
Sulfate	33	.	32	.	34	.	7	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-042						GW-043	
	BG						OLF	
	06/11/91		09/05/91		11/04/91		01/22/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	1.7	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.14	0.12	0.15	0.13	0.13	0.13	0.023	0.017
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.029	<0.004	0.045	0.0042	0.031	0.023	<0.004	<0.004
Cadmium (AAS)	0.0093	0.017	0.058	0.037	0.02	0.017	0.0027	0.0038
Cadmium	0.0096	0.019	0.056	0.042	0.021	0.017	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.009	0.0081	0.024	0.0086	0.015	0.017	0.0072	<0.004
Iron	1.1	0.72	1	0.39	1.2	1.1	1.4	0.033
Lead (AAS)	0.01	<0.004	<0.004	<0.004	0.0092	<0.004	0.0076	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.02	0.02	0.025	0.021	0.022	0.022	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	11	11	.	.	.	.	9.5	8.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.016	0.016	0.016	0.028	0.015	0.015	0.019	0.031
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.015	0.025	0.076	0.058	0.043	0.029	0.029	0.0047
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	24	.	23	.	24	.	26	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	3.7	3.7	3.7	3.9	3.7	3.5	8.3	16
Chloride	1	.	1	.	1.4	.	1	.
Fluoride	0.19	.	0.3	.	0.2	.	<0.1	.
Magnesium	4.4	4.3	4.4	4.8	4.4	4.3	2	3
Manganese	0.28	0.27	0.28	0.3	0.28	0.28	0.03	<0.001
Nitrate-N	<0.2	.	0.4	.	<0.2	.	<0.2	.
Potassium	0.97	1.1	1.2	1.2	1.1	3	0.97	0.71
Sodium	3.3	3.3	3	3	3.1	5	5.5	6.3
Sulfate	8	.	7	.	8.4	.	8	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-043						GW-044	
	OLF						OLF	
	05/01/91		08/12/91		10/15/91		01/22/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.71	0.027	1.3	0.037	4.8	0.059	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	0.063	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.018	0.014	0.02	0.015	0.027	0.013	0.25	0.23
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	<0.004	<0.004	0.02	0.043	0.032	0.0052	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.016	<0.01	<0.01	<0.01
Chromium	0.03	0.022	<0.01	<0.01	0.013	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.009	0.0049	<0.004	<0.004	<0.004	0.0045
Iron	0.69	0.032	1.2	0.031	2.8	0.042	0.012	<0.004
Lead (AAS)	<0.004	<0.004	0.0079	<0.004	0.0093	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	14	13	12	8.5	.	.	7.6	11
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.032	0.031	0.039	0.039	0.019	0.022	0.083	0.08
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.016	<0.002	0.0062	0.0049	0.015	0.006	0.0018	0.0019
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	60	.	68	.	47	.	139	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	16	16	20	20	9.5	12	45	44
Chloride	1	.	<1	.	1	.	1	.
Fluoride	<0.1	.	<0.1	.	0.1	.	<0.1	.
Magnesium	2.9	2.8	3.8	3.7	2.6	2.4	3.3	3.2
Manganese	0.0076	<0.001	0.02	0.0019	0.04	0.0035	0.0012	<0.001
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	0.78	<0.6	0.93	0.73	1.8	1.1	0.78	0.71
Sodium	7.1	7	5.5	6.2	6.8	6.6	5	4.4
Sulfate	8	.	9	.	7	.	6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-044						GW-052	
	OLF						BG	
	05/01/91		08/09/91		10/14/91		03/20/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.027	<0.02	0.026	<0.02	<0.02	1.4	0.21
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	0.057	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.25	0.25	0.21	0.2	0.22	0.22	0.079	0.07
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.17	<0.004	<0.004	<0.004	0.019	0.024	1.3	1.7
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	0.033	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.0061	<0.005	0.016	0.0099	0.035	<0.005	1.6	0.074
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.02	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	11	12	7.8	8	.	.	4.9	3.6
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.078	0.079	0.073	0.072	0.08	0.079	0.13	0.13
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.061	0.05
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	<0.002	<0.002	<0.002	0.0056	0.0022	0.012	0.0069
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	132	.	125	.	132	.	119	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	43	44	47	45	50	49	62	64
Chloride	1	.	<1	.	<1	.	12	.
Fluoride	<0.1	.	<0.1	.	0.1	.	0.3	.
Magnesium	3.1	3.1	<5	<5	3.2	3.2	9.1	9.3
Manganese	<0.001	<0.001	0.013	<0.001	0.0089	0.0011	0.044	0.0059
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	12	.
Potassium	0.63	0.61	1.1	1	0.71	0.6	2.1	1.6
Sodium	4.9	4.8	4.5	4.5	3.9	3.6	9.8	9.8
Sulfate	6	.	<1	.	6	.	24	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-053							
	BG							
	03/19/91		06/19/91		09/26/91		12/22/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.4	0.022	0.11	0.056	3.8	0.028	0.087	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.22	0.22	0.25	0.25	0.34	0.24	0.24	0.21
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	0.00045	<0.0003	<0.0003	<0.0003
Boron	0.27	0.28	0.37	0.31	0.33	0.31	0.31	0.34
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0098	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0075	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.44	<0.01	<0.01	<0.01
Chromium	0.026	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.0065	<0.005	<0.005	<0.005
Copper	0.012	0.011	0.0053	0.0048	0.015	<0.004	<0.004	0.0073
Iron	0.55	0.073	0.29	0.016	16	0.069	0.24	<0.005
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.058	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.024	0.024	0.034	0.024	0.054	0.03	0.02	0.022
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6.7	6.1	6.3	5.3	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.43	0.42	0.46	0.45	0.57	0.47	0.4	0.37
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.002	0.001	0.001	0.008	0.009	0.003	0.004
Vanadium	<0.005	<0.005	<0.005	<0.005	0.0073	<0.005	<0.005	<0.005
Zinc	0.0096	0.021	0.02	0.01	0.024	0.0092	0.014	0.015
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	180	.	249	.	265	.	259	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	110	110	110	110	170	110	120	110
Chloride	67	.	22	.	56	.	46.2	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	0.1	.
Magnesium	14	14	14	14	19	15	14	12
Manganese	0.057	0.051	0.063	0.05	0.25	0.096	0.067	0.051
Nitrate-N	<0.2	.	0.26	.	<0.2	.	0.9	.
Potassium	2.7	2.5	2.3	1.9	5	2.9	2.6	3.1
Sodium	8.9	9.3	9.3	7.4	9.5	9	9	9.5
Sulfate	32	.	32	.	29	.	27.4	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-054							
	BG							
	02/27/91		05/31/91		09/15/91		11/24/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	3.3	0.1	1.8	0.069	0.68	0.04	0.57	0.056
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.095	0.075	0.1	0.093	0.095	1.4	0.1	0.09
Beryllium	0.00034	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.93	0.9	0.95	0.93	0.91	0.87	0.92	0.97
Cadmium (AAS)	0.0021	<0.002	<0.002	<0.002	<0.002	<0.002	0.0085	<0.002
Cadmium	0.0041	0.0041	0.0031	<0.003	<0.003	<0.003	0.0078	<0.003
Chromium (AAS)	0.014	<0.01	<0.01	<0.01		<0.01	0.021	<0.01
Chromium	0.021	<0.01	0.014	0.01	<0.01	<0.01	0.013	<0.01
Cobalt	<0.005	<0.005	0.0054	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0079	<0.004	0.01	0.019	<0.004	0.0063	0.019	<0.004
Iron	3.5	0.21	1.9	0.3	1.4	0.078	2	0.37
Lead (AAS)	0.032	<0.004	0.016	<0.004	0.0043	<0.004	0.073	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	0.00037
Molybdenum	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.014	<0.01	<0.01	<0.01	0.012	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9	3.6	6.8	4.1	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.13	0.12	0.15	0.15	0.13	0.15	0.12	0.12
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.024	0.0038	0.026	0.017	0.011	0.0072	0.039	0.0079
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	261	.	243	.	256	.	254	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	77	77	97	93	94	92	92	90
Chloride	5	.	8	.	8	.	8	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	12	12	13	13	13	13	13	13
Manganese	0.59	0.39	0.81	0.49	0.81	0.28	1.3	0.82
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2.4	1.6	2	1.7	1.4	2.2	1.8	1.4
Sodium	2.2	1.8	1.8	2	2	2	2.2	2.1
Sulfate	15	.	17	.	16	.	16	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-056							
	BG							
	02/26/91		05/24/91		09/15/91		12/11/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.15	0.05	0.33	0.057	0.16	0.032	0.32	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.17	0.14	0.16	0.13	0.15	0.13	0.14	0.11
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.061	0.075	1.2	0.069	0.042	0.047	0.046	0.048
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.021	<0.01
Chromium	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	0.016	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0041	<0.004	0.0071	<0.004	<0.004	0.0043	0.0082	0.0052
Iron	1.3	0.13	1.3	0.26	1.4	0.3	2.2	0.38
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0098	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.01	<0.01	0.065	0.035	0.11
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.9	4.4	4.9	4.4	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.12	0.11	0.11	0.1	0.098	0.095	0.098	0.084
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.006	0.004	0.006	0.004	0.005	0.004	0.004	0.004
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0072	0.018	0.015	0.031	0.0092	0.024	0.015	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	253	.	252	.	267	.	261	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	82	62	84	25	82	76	87	70
Chloride	35	.	53	.	41	.	50	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	0.2	.
Magnesium	27	21	26	22	28	25	28	23
Manganese	0.25	0.084	0.25	0.085	0.29	0.15	0.35	0.18
Nitrate-N	0.6	.	0.44	.	<0.2	.	0.2	.
Potassium	1.7	3.9	1.6	2.5	1	3.1	1.9	2.7
Sodium	19	23	22	16	19	20	20	20
Sulfate	25	.	30	.	25	.	27	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-057				GW-058			
	BG				BG			
	02/26/91		06/19/91		03/19/91		06/20/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.024	0.054	0.072	0.048	1.3	0.039	0.53	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.057	0.062	0.069	0.068	0.071	0.063	0.069	0.064
Beryllium	0.00034	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.038	0.039	0.026	0.022	0.055	0.031	0.055
Cadmium (AAS)	<0.002	<0.002	0.0049	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.0059	<0.003	0.0043	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	0.71	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	0.098	<0.01	0.04	0.017	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0071	<0.004	0.015	0.012	<0.004	0.0056
Iron	0.24	0.28	1	0.37	1.1	0.013	0.6	0.0059
Lead (AAS)	<0.004	<0.004	0.016	<0.004	0.005	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.043	<0.01	0.013	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	2.7	2.8	3.1	3.2	5	3.5	4.1	3.9
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.16	0.16	0.17	0.17	0.099	0.1	0.14	0.14
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.002	0.001	0.028	0.029	0.01	0.009
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	0.033	0.018	0.0073	0.0068	0.0088	0.01	0.011
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	277	.	283	.	264	.	291	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	81	83	85	86	71	73	78	76
Chloride	49	.	54	.	13	.	6	.
Fluoride	<0.1	.	0.1	.	0.1	.	0.2	.
Magnesium	17	17	16	17	27	27	32	31
Manganese	0.15	0.15	0.45	0.41	0.058	<0.001	0.044	0.013
Nitrate-N	<0.2	.	<0.2	.	5	.	0.64	.
Potassium	0.99	0.94	1.4	1.2	1.6	1.3	1.3	1.2
Sodium	51	52	39	37	8.2	8.7	4.8	4.7
Sulfate	28	.	31	.	23	.	21	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-058				GW-061			
	BG				BG			
	09/20/91		12/17/91		03/19/91		06/19/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	2.1	0.032	1.9	0.047	0.62	0.042	0.65	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.074	0.063	0.089	0.073	0.064	0.058	0.063	0.059
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.046	0.028	0.087	0.095	0.052	0.055	0.048	0.024
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.022	0.013	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0071	0.005	0.0071	<0.004	0.012	0.0094	<0.004	<0.004
Iron	1.8	0.0075	3.1	0.027	0.74	0.01	0.47	0.0067
Lead (AAS)	<0.004	<0.004	0.008	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	3.8	3.4	4.6	3.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.078	0.077	0.095	0.094	0.12	0.12	0.13	0.12
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.016	0.016	0.032	0.029	0.025	0.023	0.025	0.021
Vanadium	0.0058	<0.005	0.0071	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.025	0.011	0.04	0.018	0.0058	0.0077	0.01	0.0034
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	282	.	254	.	170	.	184	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	81	85	76	79	69	67	73	74
Chloride	10	.	23	.	8	.	6	.
Fluoride	0.1	.	0.1	.	<0.1	.	0.1	.
Magnesium	32	33	26	27	9.2	9	9.1	9.5
Manganese	0.071	<0.001	0.11	<0.001	0.2	0.002	0.056	0.0027
Nitrate-N	2.11	.	6.18	.	7	.	6	.
Potassium	1.9	1.9	1.7	1.9	1.3	1.1	1.2	1.2
Sodium	6.4	6.3	15	15	4.1	4	3.6	4
Sulfate	19	.	228	.	22	.	20	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-061				GW-063			
	BG				OLF			
	09/26/91		12/21/91		02/08/91		05/12/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	1.7	<0.02	0.6	0.028	2.4	0.053	2.1	0.079
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	0.079	<0.05	<0.05
Barium	0.2	0.18	0.083	0.077	0.12	0.099	0.097	0.085
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.34	0.14	0.064	0.054	0.022	0.0098	0.013	0.045
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	0.0042	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	0.034	<0.01
Chromium	0.011	<0.01	<0.01	<0.01	0.14	0.014	0.027	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.0054	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0055	<0.004	0.034	0.009	0.016	0.0078
Iron	1.5	<0.005	0.47	0.014	3.6	<0.005	2.3	0.0053
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.018	<0.004	0.015	0.0049
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	0.05	0.014	0.019	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	6.9	3.8	7.4	4.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.24	0.25	0.12	0.12	0.089	0.081	0.075	0.075
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.08	0.07	0.034	0.036	0.002	0.002	0.002	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	0.0065	<0.005	0.0067	<0.005
Zinc	0.014	0.0029	0.024	0.021	0.047	0.015	0.035	0.033
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	221	.	171	.	262	.	248	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	110	110	77	77	88	77	76	69
Chloride	22	.	9.8	.	10	.	8	.
Fluoride	0.2	.	0.1	.	<0.1	.	0.13	.
Magnesium	18	17	11	10	28	23	23	21
Manganese	0.75	0.067	0.05	0.014	0.17	<0.001	0.099	0.001
Nitrate-N	20.1	.	12.2	.	4	.	4	.
Potassium	2.6	1.6	1.6	1.4	1.9	1.7	1.8	1.5
Sodium	12	12	5.7	5.9	5.1	5	3.3	4.1
Sulfate	33	.	19.5	.	13	.	12	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-063				GW-064			
	OLF				OLF			
	08/13/91		10/23/91		02/20/91		05/17/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	0.35	0.035	2.6	0.05	0.15	0.12
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.076	0.076	0.13	0.13	0.06	0.048	0.058	0.048
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00031
Boron	0.036	0.027	0.025	0.034	0.031	0.032	0.052	0.028
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0023
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0062	<0.003
Chromium (AAS)	<0.01	<0.01	0.044	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.012	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0076	0.0088	0.0042	<0.004	<0.004	0.0046
Iron	0.011	0.0053	0.57	0.0065	2.5	0.088	0.11	0.089
Lead (AAS)	<0.004	<0.004	0.0098	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.2	4.2	.	.	8.4	4.8	4.7	5.1
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.077	0.075	0.098	0.098	0.11	0.11	0.11	0.11
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.002	0.002	0.002	0.001	0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0089	0.0052	0.024	0.019	0.017	0.0048	0.0081	0.0096
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	250	.	319	.	290	.	279	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	78	76	96	90	110	110	95	100
Chloride	7	.	15	.	15	.	1	.
Fluoride	0.1	.	0.1	.	<0.1	.	<0.1	.
Magnesium	23	23	31	30	16	16	16	16
Manganese	0.0073	0.0056	0.021	<0.001	0.1	<0.001	0.007	0.0051
Nitrate-N	3.3	.	1.94	.	9	.	0.73	.
Potassium	1.5	1.4	2.1	3.7	2.5	1.8	2.9	2.7
Sodium	4.7	3.8	9.4	12	5.9	5.5	5.7	4.9
Sulfate	12	.	17	.	22	.	2	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-064				GW-069			
	OLF				BG			
	08/14/91		10/23/91		03/19/91		06/17/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.11	<0.02	0.23	<0.02	0.022	0.038	0.022	0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.043	0.042	0.049	<0.001	0.41	0.34	0.35	0.29
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.14	0.016	0.024	<0.004	0.11	0.14	0.18	0.13
Cadmium (AAS)	<0.002	<0.002	0.008	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	0.0061	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0049	<0.004	<0.004	0.0093	0.0074	<0.004
Iron	0.13	<0.005	0.23	0.0078	0.015	0.017	0.017	0.033
Lead (AAS)	0.0085	<0.004	0.016	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.3	5	.	.	6.1	5.5	5.8	6.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.1	0.1	0.0021	0.97	0.85	0.91	0.84
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0064	0.0058	0.014	0.0022	0.0065	0.012	0.01	0.0051
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	276	.	281	.	123	.	116	.
Alkalinity-CO3	<1	.	<1	.	10	.	14	.
Calcium	120	120	110	2.4	13	8.3	8.9	8.1
Chloride	12	.	13	.	37	.	37	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	0.2	.
Magnesium	18	17	16	0.61	5.5	4.8	5.3	4.6
Manganese	0.0051	<0.001	0.0078	0.0012	0.0054	0.0018	0.0042	0.0011
Nitrate-N	7	.	7.23	.	<0.2	.	<0.2	.
Potassium	1.9	2.3	1.7	<0.6	4.4	4.4	3.9	4.2
Sodium	5.9	4.7	5.1	<0.02	62	61	57	55
Sulfate	22	.	24	.	2	.	2	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-069				GW-071			
	BG				BG			
	09/20/91		12/16/91		03/24/91		06/21/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.03	0.039	<0.02	0.062	0.48	0.47	0.45	0.43
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.36	0.31	0.37	0.42	0.11	0.037	0.036	0.033
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.1	0.11	0.13	0.44	0.64	0.58	0.68	0.66
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	0.0055	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0074	<0.004	<0.004	0.0055	<0.004	<0.004	<0.004	0.0061
Iron	0.023	0.015	0.034	0.033	0.037	<0.005	0.01	0.0093
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.0083	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	6.4	6.3	6.3	6.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.8	0.75	0.86	0.87	0.38	0.12	0.11	0.11
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0088	0.022	0.015	0.011	0.0089	<0.002	0.0076	0.0056
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	122	.	117	.	163	.	215	.
Alkalinity-CO3	8	.	10	.	504	.	416	.
Calcium	9.6	8.7	9.8	9.7	12	0.67	0.6	0.51
Chloride	39	.	42	.	44	.	43	.
Fluoride	<0.1	.	0.1	.	3.8	.	5.5	.
Magnesium	5.7	5	6	5.8	0.14	0.085	0.13	0.12
Manganese	0.0038	0.0027	0.0031	0.0025	0.0021	0.0014	<0.001	0.001
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<2	.
Potassium	4.7	5	4.3	4.3	2.6	3.7	2.3	2.5
Sodium	57	57	58	62	380	350	330	330
Sulfate	2	.	2	.	30	.	35	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-072				GW-074			
	BG				OLF			
	03/19/91		06/18/91		01/30/91		05/10/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.22	0.067	0.063	<0.02	0.03	0.022	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.11	0.081	0.16	0.037	0.02	0.019	0.017	0.017
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.25	0.29	0.29	0.27	0.15	0.29	0.27	0.25
Cadmium (AAS)	<0.002	<0.002	<0.002	0.0024	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0032	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0043	<0.004	<0.004	0.0069	<0.004	<0.004	<0.004	<0.004
Iron	0.056	0.0058	0.027	<0.005	0.015	0.018	0.027	<0.005
Lead (AAS)	0.0047	<0.004	<0.004	0.0064	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Nickel	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4	4.4	4.1	4.2	0.76	4.5	4.3	4.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.24	0.23	0.32	0.19	0.038	0.037	0.036	0.036
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0049	0.0053	<0.002	0.0033	0.0025	0.0025	<0.002	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	31	.	91	.	194	.	191	.
Alkalinity-CO ₃	176	.	116	.	72	.	74	.
Calcium	1.5	1.6	1.8	1.1	0.76	0.71	0.69	0.64
Chloride	18	.	16	.	<1	.	<1	.
Fluoride	0.3	.	0.27	.	0.3	.	0.24	.
Magnesium	0.24	0.41	0.61	0.23	0.14	0.14	0.13	0.13
Manganese	0.0033	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2.2	2.3	2	2.1	0.8	0.8	0.87	0.72
Sodium	120	120	110	110	110	120	120	120
Sulfate	12	.	12	.	8	.	7.6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-074				GW-075			
	OLF				OLF			
	08/26/91		10/21/91		01/28/91		05/10/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.035	<0.02	<0.02	<0.02	0.31	0.13	0.51	0.083
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.015	0.014	0.012	0.011	0.081	0.062	0.071	0.061
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.31	0.3	0.28	0.28	0.53	0.55	0.55	0.55
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	0.0046	0.0043	0.0047
Iron	0.032	<0.005	0.062	<0.005	0.078	0.033	0.12	0.011
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	4.6	4	5.1	4
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.043	0.042	0.037	0.035	0.12	0.097	0.11	0.1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	<0.002	0.0066	0.0063	0.0055	0.0057	0.0031	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	186	.	180	.	416	.	432	.
Alkalinity-CO ₃	72	.	74	.	70	.	82	.
Calcium	0.7	0.68	0.7	0.64	1.5	1.1	1.3	1.1
Chloride	<1	.	<1	.	5	.	6.1	.
Fluoride	0.2	.	0.3	.	5.2	.	4.82	.
Magnesium	0.16	0.15	0.14	0.12	0.4	0.33	0.39	0.34
Manganese	<0.001	<0.001	0.0011	<0.001	0.0025	0.0025	0.0032	0.0026
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.2	1.2	1.1	0.88	2	2	2.5	2.6
Sodium	120	120	130	130	230	220	240	240
Sulfate	7	.	8	.	23	.	25.6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-075				GW-076			
	OLF				OLF			
	08/27/91		10/25/91		01/26/91		05/09/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.68	0.089	0.33	0.067	0.027	<0.02	<0.02	0.028
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.078	0.069	0.076	0.031	0.38	0.35	0.38	0.37
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.6	0.59	0.76	0.54	0.064	0.071	0.019	0.067
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0065	0.014	0.0048	<0.004	<0.004	0.0051	<0.004
Iron	0.15	0.014	0.1	0.062	0.037	0.02	0.056	0.02
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	7.1	4.8	2.8	6.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.13	0.12	0.1	0.08	0.8	0.79	0.76	0.77
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.002	0.003	0.037	0.013	<0.001	0.0021	0.016	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	419	.	406	.	164	.	162	.
Alkalinity-CO3	72	.	66	.	<1	.	<1	.
Calcium	1.4	1.6	1.4	1.1	23	19	24	23
Chloride	6	.	5	.	13	.	12	.
Fluoride	5	.	4.9	.	0.3	.	0.22	.
Magnesium	0.48	0.41	0.39	0.3	9.2	9.3	9.9	8.7
Manganese	0.0026	0.0022	0.0033	<0.001	0.0026	0.002	0.0033	0.0019
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2.6	2.4	2.8	2.4	3.9	3.9	3.4	3.9
Sodium	270	270	230	230	38	39	37	37
Sulfate	24	.	25	.	6	.	6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-077				GW-078			
	BG				BG			
	02/27/91		06/05/91		02/27/91		06/05/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.085	0.033	0.18	<0.02	0.095	0.041	0.031	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	0.057	<0.05	<0.05	<0.05
Barium	0.31	0.31	0.25	0.25	0.14	0.13	0.13	0.13
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.025	0.022	0.0088	0.018	0.019	<0.004	0.015	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0023	<0.0021
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.011
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.011	0.0053	<0.004	0.0051	0.0049	0.0041
Iron	0.16	0.13	0.28	0.094	0.08	0.039	0.028	0.0066
Lead (AAS)	<0.004	<0.004	0.0053	<0.004	<0.004	<0.004	<0.004	<0.0042
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.9	9.9	1	8.4	6.6	6	6	5.9
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.013	<0.006
Strontium	0.73	0.73	0.61	0.6	0.098	0.091	0.094	0.094
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	0.022	0.0082	0.0056	0.011	0.053	0.0051	0.0068
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	148	.	132	.	135	.	133	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	43	43	34	34	44	41	35	35
Chloride	<1	.	<1	.	1	.	2	.
Fluoride	<0.1	.	0.11	.	0.1	.	0.16	.
Magnesium	8.2	8.2	8.1	7.3	5.9	5.5	6.3	6.3
Manganese	0.08	0.073	0.091	0.056	0.043	0.025	0.11	0.036
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.7	1.8	1.6	1.8	1.2	1.3	0.97	0.94
Sodium	5.9	6	5.1	5.7	4.1	4.1	3.8	3.7
Sulfate	16	.	15	.	13	.	12	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-079				GW-080			
	BG				BG			
	02/23/91		06/04/91		02/23/91		05/24/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.051	0.035	0.055	0.027	1.5	0.046	16	0.49
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.15	0.15	0.14	0.13	0.094	0.017	0.24	0.023
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.001	<0.0003
Boron	0.0093	0.014	0.0083	0.023	0.0044	0.013	0.075	0.034
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	0.0062	0.0042	0.0033	0.0035
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0061	0.0041	0.0055	0.0044
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.022	<0.01	0.037	<0.011
Chromium	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.0089	<0.005	0.012	<0.005
Copper	0.0058	0.025	<0.004	0.0045	0.049	0.019	0.049	0.0074
Iron	0.076	0.033	0.1	0.01	2.2	0.11	17	0.51
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.031	<0.004	0.019	<0.0042
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	0.045	0.026	0.071	0.035
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.4	7.2	7.3	7.1	9.6	7.7	28	7.6
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.13	0.13	0.12	0.12	0.019	0.013	0.042	0.018
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	<0.005
Zinc	0.015	0.025	0.0046	0.0041	0.029	0.015	0.077	0.021
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	102	.	100	.	20	.	25	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	33	31	31	34	5	3.4	5.1	4.5
Chloride	<1	.	<1	.	<1	.	<1	.
Fluoride	0.1	.	<0.1	.	0.1	.	<0.1	.
Magnesium	3.8	3.5	3.7	3.7	4.9	3.5	7.1	4.3
Manganese	0.057	0.045	0.05	0.048	0.1	0.082	0.14	0.1
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.4	1.3	1	1	1.9	1.3	4.9	1.5
Sodium	4.5	4.1	3.8	4	5.6	6	6.1	6
Sulfate	7	.	8	.	13	.	16	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-080				GW-082			
	BG				BG			
	09/07/91		11/06/91		03/09/91		06/11/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	5.1	0.046	2.4	<0.02	0.24	<0.02	0.14	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.07	0.016	0.052	0.02	0.41	0.4	0.4	0.39
Beryllium	0.00045	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.027	0.026	0.028	0.031	0.004	0.0052	<0.004	<0.004
Cadmium (AAS)	0.0023	0.0022	0.011	0.0025	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	0.01	0.0032	0.0048	<0.003	<0.003	<0.003
Chromium (AAS)	0.021	<0.01	0.28	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.016	<0.01	0.028	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	0.0082	<0.005	0.0085	0.0072	<0.005	<0.005	<0.005	<0.005
Copper	0.015	0.0055	0.7	0.032	0.0051	<0.004	<0.004	0.0041
Iron	4.1	0.11	4.4	0.14	0.17	0.0053	0.094	0.01
Lead (AAS)	0.0081	<0.004	0.21	<0.004	0.0057	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.027	0.011	0.036	0.015	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	10	9.6	10	9.7
Silver	<0.006	<0.006	0.027	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.023	0.015	0.019	0.016	0.13	0.13	0.13	0.12
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
Vanadium	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.023	0.013	0.17	0.019	0.0034	<0.002	<0.002	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	35	.	33	.	173	.	187	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	4.5	3.9	5.9	4.4	63	67	66	65
Chloride	<1	.	<1	.	5	.	6	.
Fluoride	0.1	.	0.2	.	0.1	.	0.14	.
Magnesium	5.3	4.1	5.6	4.4	6.6	6.7	7.1	6.7
Manganese	0.11	0.072	0.12	0.09	0.21	0.18	0.14	0.13
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	3.1	1.5	6.7	4.2	1.4	1.3	1.2	0.94
Sodium	12	13	12	13	5.2	4.9	5	5.1
Sulfate	18	.	24	.	10	.	9	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-082				GW-083			
	BG				BG			
	09/25/91		12/21/91		03/09/91		06/11/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.035	<0.02	0.21	0.1	<0.02	<0.02	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.051	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.34	0.33	0.36	0.3	0.17	0.16	0.16	0.14
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.022	0.012	0.25	0.31	0.018	<0.004	<0.004	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0099	0.017	<0.004	0.0073	0.0081	<0.004
Iron	0.026	<0.005	0.13	0.015	0.072	0.023	0.37	0.02
Lead (AAS)	0.0071	<0.004	<0.004	<0.004	<0.004	<0.004	0.0089	0.0061
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	2.1	8.1	8.3	8.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.11	0.11	0.11	0.091	0.068	0.07	0.067	0.067
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0042	0.0032	0.02	0.044	<0.002	0.0082	0.0021	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	169	.	163	.	113	.	112	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	54	50	60	48	38	37	33	33
Chloride	4	.	4	.	2	.	2	.
Fluoride	0.2	.	0.3	.	<0.1	.	0.11	.
Magnesium	6.1	5.9	6.3	5.6	3.5	3.4	3.5	3.4
Manganese	0.11	0.064	0.12	0.055	0.063	0.057	0.14	0.037
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.3	1	1.8	0.82	0.76	0.75	<0.6	<0.6
Sodium	4.6	4.3	5.1	4.3	3.3	3.5	3.1	3.2
Sulfate	7.8	.	7.1	.	7	.	6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-083				GW-084			
	BG				OLF			
	09/14/91		12/27/91		01/22/91		05/01/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
MP LIS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.044	<0.02	0.029	0.022	2.9	<0.02	0.92	0.027
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.15	0.31	0.17	0.15	0.18	0.15	0.17	0.16
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.019	0.021	0.036	0.014	<0.004	<0.004	0.0089	0.0057
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.011	<0.004	0.012	0.0049	<0.004	<0.004	0.0056	0.0053
Iron	0.37	0.029	0.37	0.036	2.4	0.028	1.5	0.021
Lead (AAS)	0.006	<0.004	0.0065	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	13	4.6	9.7	8.5
Silver	0.0063	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.061	0.062	0.06	0.059	0.085	0.081	0.082	0.079
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.012	0.0072	0.012	0.006	0.0058	<0.001	0.0046	0.0032
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	112	.	114	.	151	.	154	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	41	41	40	40	57	53	51	49
Chloride	2	.	2	.	<1	.	<1	.
Fluoride	0.1	.	0.2	.	<0.1	.	0.11	.
Magnesium	3.4	3.4	3.4	3.3	4.6	3.8	4.1	3.7
Manganese	0.16	0.042	0.25	0.047	0.11	0.003	0.088	<0.001
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	0.97	<0.6	0.87	1.2	1.5	0.85	0.83	<0.6
Sodium	3.2	3.3	3.4	3.3	4.9	5.6	5.1	5.2
Sulfate	6	.	6	.	8	.	8	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-084				GW-085			
	OLF				OLF			
	08/09/91		10/14/91		01/26/91		05/09/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	1.5	0.03	2.1	0.038	0.07	0.056	0.029	0.032
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.17	0.14	0.19	0.15	0.57	0.54	0.56	0.57
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.0085	<0.004	0.0084	0.046	0.013	0.015	0.0064	0.011
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0047	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0086	<0.004	<0.004	<0.004	0.011	<0.004	<0.004	<0.004
Iron	1.7	0.029	2.6	0.014	0.039	<0.004	0.0072	<0.005
Lead (AAS)	<0.004	<0.004	0.0092	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.2	5.4	.	.	7.5	6.8	7.4	7.4
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.077	0.07	0.084	0.078	0.43	0.41	0.43	0.43
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0094	<0.002	0.0093	0.0048	0.038	0.015	0.03	0.029
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	142	.	150	.	122	.	120	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	56	51	60	52	190	180	190	190
Chloride	<1	.	<1	.	5	.	6	.
Fluoride	<0.1	.	0.1	.	<0.1	.	<0.1	.
Magnesium	<5	<5	4.9	3.9	12	12	13	13
Manganese	0.12	0.0045	0.18	0.006	0.0055	0.0019	0.0017	0.0019
Nitrate-N	<0.2	.	<0.2	.	157	.	115	.
Potassium	1.1	0.69	1.2	0.72	1.7	1.8	1.8	1.7
Sodium	5.3	5	4.2	4	8.4	9.3	9.	9.7
Sulfate	8.3	.	8	.	6	.	6	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-085				GW-086			
	OLF				OLF			
	08/13/91		10/15/91		01/26/91		05/09/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.029	<0.02	0.06	0.033	6.3	0.064	11	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.6	0.59	0.66	0.67	1	0.12	0.42	0.12
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	0.0015	<0.0003	0.0011	<0.0003
Boron	0.043	0.043	0.037	0.026	<0.004	<0.004	0.016	0.024
Cadmium (AAS)	<0.002	<0.0021	<0.002	<0.002	0.0028	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.011	<0.01	<0.01	0.027	<0.01	0.044	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.016	<0.01	0.03	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	0.019	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	0.017	<0.004	0.018	<0.004
Iron	0.032	0.034	0.048	0.017	5.9	0.056	16	0.02
Lead (AAS)	<0.004	<0.0042	<0.004	<0.004	0.05	<0.004	0.014	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	0.021	<0.01	0.04	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.057	<0.05
Silicon	7.7	7.5	.	.	14	9	25	9.4
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.48	0.47	0.49	0.5	0.15	0.071	0.083	0.071
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	0.001	<0.001	0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005
Zinc	0.032	0.038	0.031	0.021	0.088	0.001	0.078	0.009
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	117	.	115	.	128	.	101	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	220	210	230	230	74	34	34	32
Chloride	5	.	7	.	1	.	1.3	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	15	14	15	15	5.8	2.6	7.1	2.5
Manganese	0.0041	0.0026	0.01	0.0066	1.3	0.0074	1.1	0.0036
Nitrate-N	124	.	161.4	.	1	.	1.3	.
Potassium	1.8	1.6	1.8	2	2.2	0.98	3.3	0.73
Sodium	9.8	9.9	10	10	6	4.8	5.2	5.2
Sulfate	5	.	6	.	8	.	8.3	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-089							
	BG							
	03/05/91		06/11/91		09/07/91		11/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.13	0.045	0.026	<0.02	0.091	<0.02	0.049	0.076
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.24	0.18	0.28	0.24	0.38	0.36	0.46	0.47
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.031	0.033	0.051	0.065	0.094	0.086	0.083	0.15
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	0.0027	<0.002	<0.002
Cadmium	0.0042	0.018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0046	0.013	<0.004	<0.004	<0.004	<0.004	0.0088	0.0061
Iron	3.1	0.011	1.2	0.011	1.5	0.56	1.6	1.1
Lead (AAS)	0.026	<0.004	0.008	<0.004	0.012	<0.004	0.009	0.0041
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.014	0.01	<0.01	<0.01	<0.01	<0.01	0.012	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.9	9.6	9.1	9.2	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	0.01	<0.006	<0.006	<0.006
Strontium	0.27	0.27	0.2	0.24	0.21	0.22	0.22	0.21
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.034	0.041	0.004	0.036	0.0086	0.0097	0.013	0.011
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	155	.	148	.	149	.	163	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	45	45	33	34	41	42	52	47
Chloride	3	.	3	.	5	.	6.3	.
Fluoride	0.2	.	0.18	.	0.2	.	0.2	.
Magnesium	9.3	9.3	9.6	9.4	11	11	13	12
Manganese	1.2	0.023	0.9	0.92	0.93	0.9	1.1	1
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2.2	2.2	2	2.1	2.5	2.1	2.6	2.3
Sodium	6.9	7	6.4	6.9	5.7	5.7	7	6.8
Sulfate	9	.	10	.	8	.	5.5	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-095							
	BG							
	03/19/91		06/18/91		09/23/91		12/16/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.059	0.12	0.03	0.026	0.034	0.066	0.026	0.021
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.029	0.018	0.025	0.025	0.029	0.015	0.03	0.028
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	1	2.2	1	1	1.1	1	1.1	0.98
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.015	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	0.0057	<0.004	<0.004	<0.004	0.021
Iron	0.033	0.051	<0.005	<0.005	0.016	0.021	0.093	0.032
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.1	4.2	3.6	4.4	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.11	0.091	0.099	0.1	0.093	0.077	0.097	0.09
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0044	0.0051	0.007	0.0072	0.014	0.017	0.01	0.013
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	229	.	221	.	254	.	214	.
Alkalinity-CO3	36	.	38	.	4	.	38	.
Calcium	1.5	1.4	1.3	1.3	1.3	1.1	1.4	1.2
Chloride	1	.	1	.	1	.	1	.
Fluoride	0.5	.	0.6	.	0.6	.	0.6	.
Magnesium	0.46	0.43	0.36	0.35	0.42	0.36	0.42	0.36
Manganese	0.0037	0.003	0.0011	0.0012	0.0024	<0.001	0.0015	<0.001
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2	2	1.9	1.9	2	1.6	2	2
Sodium	110	130	120	120	120	120	140	130
Sulfate	11	.	10	.	8	.	8	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-101				GW-115			
	S3				S3			
	01/12/91		04/14/91		01/05/91		04/03/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.62	0.97	0.21	0.027	0.072	0.075	<0.02	<0.02
Antimony	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	0.077
Barium	0.66	11	2.4	7.1	0.24	0.24	0.25	0.24
Beryllium	<0.0003	<0.003	<0.0003	0.00048	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.022	0.2	0.085	0.042	0.24	0.23	0.023	0.019
Cadmium (AAS)	0.0047	0.0028	0.0043	0.0034	<0.002	<0.002	<0.002	<0.002
Cadmium	0.0039	<0.03	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.01	<0.1	<0.01	<0.01	<0.01	0.016	<0.01	<0.01
Cobalt	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.011	0.28	<0.004	0.016	<0.004	<0.004	<0.004	0.0051
Iron	0.5	<0.04	0.15	<0.005	0.34	0.35	0.36	0.024
Lead (AAS)	0.0041	<0.004	0.005	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	0.002	0.00048	0.0014	0.00055	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.012	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	1.6	7.4	6.4	6.1	8.5	9.2	10	9.4
Silver	<0.006	<0.06	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	1.1	20	6.6	15	0.1	0.11	0.12	0.11
Thorium	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.044	0.033	0.045	0.037	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0049	0.048	0.022	<0.002	<0.001	0.011	0.0061	0.0053
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	158	.	323	.	203	.	217	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	250	4500	1700	.	66	66	72	65
Chloride	35	.	28	.	3	.	3.2	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	28	490	180	390	8.5	8.5	9.7	9.1
Manganese	0.76	6.1	6.2	5.2	0.093	0.085	0.16	0.16
Nitrate-N	2510	.	1423	.	<0.2	.	<0.2	.
Potassium	1.3	19	4.6	7.7	1.2	1.2	1.4	1.6
Sodium	7.5	140	41	100	7.8	8.3	8.6	8.3
Sulfate	63	.	67	.	14	.	19.1	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-115				GW-117			
	S3				BG			
	07/01/91		10/01/91		03/25/91		06/17/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.043	0.029	<0.02	0.021	0.059	<0.02	0.057	0.026
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.24	0.24	0.24	0.24	0.047	0.04	0.05	0.039
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.05	0.024	0.019	0.057	0.41	0.37	0.41	0.42
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0032	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.023	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0043	<0.004	<0.004	0.0061	0.0066	0.0099	0.0096
Iron	0.26	0.26	0.26	0.25	6.9	0.017	5.5	0.034
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	0.027	0.034	0.031	0.034
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.039
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.7	8.6	.	.	<0.03	0.31	0.87	0.62
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.11	0.11	0.12	0.12	0.26	0.27	0.37	0.35
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0053	0.0076	0.0054	0.0056	0.0089	0.0022	0.0099	0.006
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	194	.	223	.	631	.	560	.
Alkalinity-CO3	<1	.	<1	.	78	.	108	.
Calcium	68	70	70	70	2.7	2.6	2.9	2.8
Chloride	3	.	3	.	685	.	620	.
Fluoride	0.1	.	<0.1	.	2.7	.	4	.
Magnesium	9.8	10	11	11	1.1	1.1	1.2	1.1
Manganese	0.15	0.15	0.23	0.23	0.12	0.023	0.12	0.035
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<1	.
Potassium	3	2.3	1.9	2	9.5	8.5	8.8	7.9
Sodium	8.7	8.7	9.7	9.9	740	740	710	660
Sulfate	17	.	14	.	27	.	32	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-117				GW-118			
	BG				BG			
	09/23/91		12/19/91		03/25/91		06/17/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.22	0.06	0.44	0.18	<0.02	0.032	0.042	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.031	0.023	0.014	0.013	0.65	0.63	0.33	0.28
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.37	0.35	0.38	0.34	0.31	0.34	0.4	0.37
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.014	0.011	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0043	<0.004	0.0085	<0.004	0.017	0.017	0.018	0.017
Iron	3.2	0.029	1.8	0.042	4.1	0.046	24	0.037
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	0.028	0.035	0.037	0.03	<0.01	0.013	0.012	0.015
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	1.2	0.93	0.55	0.71
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.24	0.24	0.14	0.13	2.7	2.7	2.2	2.1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	<0.002	0.011	0.0062	<0.002	0.013	0.0061	0.007
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	534	.	503	.	208	.	159	.
Alkalinity-CO3	140	.	154	.	48	.	96	.
Calcium	1.9	2	1.3	1.4	9.8	9.7	6	5.7
Chloride	572	.	713	.	3520	.	3178	.
Fluoride	4	.	3.8	.	1.2	.	1.8	.
Magnesium	0.99	1	0.85	0.85	6.4	6.4	5.7	5.6
Manganese	0.059	0.021	0.04	0.012	0.069	0.04	0.26	0.0035
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	4	.
Potassium	9.1	9.4	11	11	15	16	12	12
Sodium	680	680	700	700	1800	1800	1700	1600
Sulfate	23	.	22.3	.	1	.	<10	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-118				GW-119			
	BG				BG			
	09/23/91		12/19/91		03/25/91		06/17/91	
	TOT	DIS	TCT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.2	<0.2	<0.2	<0.2	<0.02	0.067	0.042	0.044
Antimony	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05
Barium	0.34	0.24	<0.01	<0.01	0.11	0.094	0.095	0.079
Beryllium	<0.003	<0.003	<0.003	<0.003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.45	0.34	0.25	0.26	0.38	0.42	0.43	0.47
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.03	<0.03	<0.03	<0.03	0.0048	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.1	<0.1	<0.1	<0.1	<0.01	0.073	<0.01	<0.01
Cobalt	<0.05	<0.05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
Copper	<0.04	<0.04	<0.04	<0.04	0.011	0.013	0.014	0.011
Iron	28	<0.05	32	0.25	6.4	0.071	20	0.029
Lead (AAS)	0.014	<0.004	0.036	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002
Molybdenum	<0.1	<0.1	<0.1	<0.1	<0.01	0.023	0.021	0.021
Nickel	<0.1	<0.1	<0.1	<0.1	<0.01	0.073	<0.01	<0.01
Selenium	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	<0.03	0.36	0.85	1.6
Silver	<0.06	<0.06	<0.06	0.066	<0.006	<0.006	<0.006	<0.006
Strontium	1.9	1.6	0.23	0.21	1.2	1.2	1.1	1.1
Thorium	<2	<2	<2	<2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.05	<0.05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
Zinc	<0.02	<0.02	0.087	0.058	<0.002	0.039	0.0097	0.0052
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	132	.	<1	.	338	.	310	.
Alkalinity-CO3	128	.	230	.	82	.	120	.
Calcium	4.6	3.8	1.1	1	5.3	5.2	3.6	3.5
Chloride	1055	.	3272	.	1800	.	133	.
Fluoride	1.8	.	1.8	.	1.9	.	2.9	.
Magnesium	5.7	4.9	<0.03	<0.03	4	4.1	3.2	3.2
Manganese	0.47	<0.01	0.62	<0.01	0.12	0.022	0.23	0.013
Nitrate-N	<2.26	.	<0.2	.	<0.2	.	3	.
Potassium	20	15	29	32	12	12	6.9	7.5
Sodium	2000	2000	1900	1900	1400	1400	1100	1100
Sulfate	<10	.	<1	.	18	.	21	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-119				GW-122			
	BG				S3			
	09/23/91		12/19/91		01/12/91		04/13/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.2	<0.2	<2	<2	0.11	0.094	0.038	0.022
Antimony	<0.5	<0.5	<5	<5	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.5	<0.5	<5	<5	0.095	<0.05	<0.05	<0.05
Barium	0.097	0.089	<0.1	<0.1	8.2	7.9	8.4	8.4
Beryllium	<0.003	<0.003	<0.03	<0.03	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.44	0.41	0.43	<0.4	0.38	0.36	0.32	0.33
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.03	<0.03	<0.3	<0.3	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.1	<0.1	<1	<1	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.05	<0.05	<0.5	<0.5	<0.005	0.0061	<0.005	<0.005
Copper	<0.04	<0.04	<0.4	<0.4	0.011	0.033	<0.004	<0.004
Iron	11	0.064	2.4	<0.5	0.24	0.038	0.75	0.047
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.1	<0.1	<1	<1	<0.01	<0.01	<0.01	<0.01
Nickel	<0.1	<0.1	<1	<1	<0.01	<0.01	<0.01	<0.01
Selenium	<0.5	<0.5	<5	<5	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	8.1	7.7	7.8	7.8
Silver	<0.06	<0.06	<0.6	<0.6	<0.006	<0.006	<0.006	<0.006
Strontium	0.94	0.92	0.74	0.73	19	19	24	24
Thorium	<2	<2	<2	<2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001	0.001
Vanadium	<0.05	<0.05	<0.5	<0.5	<0.005	<0.005	<0.005	<0.005
Zinc	<0.02	<0.02	0.63	0.44	<0.001	<0.001	0.009	0.011
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	280	.	283	.	329	.	262	.
Alkalinity-CO3	148	.	152	.	<1	.	<1	.
Calcium	2.7	2.7	5.4	3.9	800	820	780	760
Chloride	682	.	1786	.	143	.	152	.
Fluoride	3	.	3	.	<0.1	.	<0.1	.
Magnesium	2.9	2.8	3.8	3.3	160	160	160	160
Manganese	0.12	0.011	<0.1	<0.1	0.18	0.17	0.18	0.17
Nitrate-N	<0.2	.	<0.2	.	667	.	210	.
Potassium	6.3	12	<6	<6	20	21	23	24
Sodium	1300	1300	1200	1200	87	92	100	100
Sulfate	13	.	6.3	.	17	.	11	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-123							
	S3							
	03/25/91		04/06/91		07/12/91		10/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.027	<0.02	<0.02	0.055	0.032	0.038	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.006	0.0024	0.014	0.0036	0.0064	0.0018	0.0019	0.0015
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.47	0.45	0.46	0.49	0.47	0.21	0.44	0.42
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0054	<0.004	<0.004	<0.004	0.0049	0.0078	<0.004	<0.004
Iron	13	0.024	2.2	<0.005	8	1.5	2.5	0.012
Lead (AAS)	<0.004	<0.004	0.0043	<0.004	0.0045	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00022	<0.0002
Molybdenum	<0.01	0.018	0.014	0.015	0.014	0.014	0.011	0.015
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	0.77	<0.03	0.37	0.42	0.57	0.18	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.071	0.05	0.1	0.073	0.067	0.044	0.039	0.032
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0033	<0.002	0.0071	<0.002	0.014	0.012	0.0035	0.0056
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	529	.	565	.	461	.	273	.
Alkalinity-CO3	316	.	298	.	346	.	420	.
Calcium	1.2	0.95	1.2	1.1	0.97	0.84	0.76	0.74
Chloride	26	.	26	.	21	.	23	.
Fluoride	6.6	.	6.8	.	6.8	.	6.2	.
Magnesium	0.34	0.29	0.43	0.38	0.35	0.42	0.12	0.16
Manganese	0.25	0.0024	0.095	0.01	0.19	0.046	0.072	0.0037
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	16	18	11	13	12	15	16	15
Sodium	400	440	450	480	430	440	420	420
Sulfate	90	.	91	.	70	.	71	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-125							
	S3							
	03/25/91		04/06/91		07/12/91		10/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.043	<0.02	<0.02	0.037	0.1	0.035	0.19	0.14
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.0024	0.0055	0.017	0.015	0.0066	0.0063	0.0077	0.0044
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.55	0.51	0.56	0.53	0.085	0.58	1.4	1.3
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0058	<0.004	0.01	0.013	0.012	0.0078	0.018	0.0061
Iron	1.2	0.012	0.91	<0.005	3.9	0.44	5.2	0.11
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	0.017	0.027	0.02	0.023	0.022	0.02	0.022	0.024
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	0.3	0.4	0.18	<0.03	0.53	0.74	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.081	0.09	0.13	0.16	0.045	0.076	0.039	0.029
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.001	0.001	<0.001	0.001	0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.003	<0.002	<0.002	<0.002	0.0074	0.0081	0.02	0.0086
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	381	.	581	.	236	.	<1	.
Alkalinity-CO3	458	.	266	.	524	.	52	.
Calcium	3	1	2.2	1.2	1.8	1	1.3	0.61
Chloride	155	.	184	.	167	.	160	.
Fluoride	2.9	.	4.1	.	5.3	.	4.2	.
Magnesium	0.18	0.37	0.48	0.67	1.1	0.61	0.51	0.52
Manganese	0.049	<0.001	0.032	0.0068	0.32	0.036	0.13	0.0012
Nitrate-N	4	.	0.8	.	0.64	.	1.06	.
Potassium	35	31	28	17	29	15	34	36
Sodium	440	450	500	550	460	490	420	440
Sulfate	76	.	96	.	69	.	64	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-162				GW-163			
	BG				BG			
	02/28/91		06/11/91		03/02/91		06/12/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.18	0.026	0.047	0.022	0.11	<0.02	0.49	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.073
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.28	0.27	0.26	0.25	0.07	0.018	0.087	0.027
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.052	0.027	0.031	0.05	0.091	0.1	0.06	0.13
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0071	<0.004
Iron	1.5	<0.005	1.4	0.01	11	0.014	14	0.09
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.0063	<0.004	0.0086	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00029	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.066	<0.05
Silicon	8.1	3	8.9	9.2	5.1	3.3	4.4	2.7
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.78	0.79	0.82	0.82	0.085	0.062	0.081	0.065
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0068	0.024	<0.002	<0.002	0.0068	0.0051	0.0085	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	125	.	116	.	145	.	136	.
Alkalinity-CO ₃	4	.	<1	.	14	.	20	.
Calcium	29	30	31	31	2.4	1.8	2.1	1.6
Chloride	4	.	4	.	<1	.	<1	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	0.13	.
Magnesium	4.7	5.1	4.9	5	0.22	0.16	0.2	0.12
Manganese	0.11	0.094	0.074	0.056	0.068	0.0037	0.076	0.0019
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	3	3.2	2.5	2.7	1.5	1.4	1.6	1.3
Sodium	14	14	13	13	81	73	78	81
Sulfate	9	.	10	.	15	.	16	.

(CONTINUED)

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-164				GW-209			
	BG				EXP			
	03/05/91		06/13/91		02/23/91		06/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	<0.02	<0.02	0.22	0.023	2.5	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.17	0.17	0.17	0.17	0.062	0.095	0.065	0.036
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.03	0.051	<0.004	0.088	0.0085	0.011	0.011	0.01
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	0.0039	<0.003	<0.003	0.0037	<0.003	0.011	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	<0.01
Chromium	0.047	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	0.0065	0.0047	0.04	0.0049
Iron	0.42	0.31	0.23	0.22	0.2	<0.005	13	0.016
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.014	<0.004	0.012	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.037	<0.01	<0.01	<0.01	0.012	<0.01	0.011	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9	9.9	8	9.4	7.6	6.9	1.4	7.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.55	0.55	0.55	0.54	0.02	0.05	0.0097	0.0061
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0032	<0.002	<0.002	0.023	0.013	0.091	0.02
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	182	.	174	.	16	.	11	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	30	30	33	32	3.8	12	2.1	1.3
Chloride	1	.	1	.	<1	.	<1	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	15	15	16	15	0.92	1.3	0.89	0.63
Manganese	0.073	0.064	0.066	0.063	0.017	0.019	0.13	0.017
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2	1.7	2	2.1	3.5	3.5	4	3.2
Sodium	22	20	22	22	2.7	2.6	2.7	2.5
Sulfate	11	.	11	.	2	.	1	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-210				GW-211			
	EXP				EXP			
	02/23/91		06/05/91		02/26/91		06/06/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.037	0.037	0.15	<0.02	0.069	0.098	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.048	0.036	0.029	0.0045	0.011	0.015	0.0068	0.0081
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.066	0.063	0.068	0.062	0.3	0.32	0.29	0.29
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.018	0.0069	0.0045	0.0044	<0.004	0.0068	0.004
Iron	0.062	0.0088	0.13	0.0054	2.9	2.5	5.8	4.6
Lead (AAS)	<0.004	<0.004	0.018	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.2	3.5	5.2	2.5	11	11	11	11
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.28	0.21	0.21	0.027	3.2	3.4	3.4	3.4
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	2.1	0.2	5.1	0.028	0.0076	0.014	0.0053	0.0049
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	147	.	174	.	116	.	112	.
Alkalinity-CO3	4	.	8	.	<1	.	<1	.
Calcium	31	24	35	8.3	260	260	270	260
Chloride	<1	.	<1	.	1	.	<10	.
Fluoride	0.1	.	<0.1	.	0.2	.	0.24	.
Magnesium	24	23	27	23	47	49	48	47
Manganese	0.0065	0.0049	0.004	<0.001	0.042	0.042	0.044	0.043
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<2	.
Potassium	3.8	3.8	3.1	3.6	3.9	4	4	4.8
Sodium	7.1	7.3	6.5	6.8	16	16	16	17
Sulfate	38	.	42	.	1220	.	882	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-225							
	OLF							
	02/21/91		05/17/91		08/31/91		11/01/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.067	0.064	0.025	0.042	0.1	0.054	<0.02	0.039
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.23	0.23	0.3	0.25	0.22	0.22	0.19	0.2
Beryllium	<0.0003	<0.0003	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.066	0.09	0.11	0.09	1.3	0.086	0.07	0.076
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	0.014	0.015	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0088	0.0045	0.013	<0.004	<0.004	<0.004	0.0049
Iron	0.068	0.005	0.13	0.011	0.02	0.032	0.16	0.026
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.016	0.023	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3	5.2	4.9	5.7	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.0065	<0.006
Strontium	1.2	1.2	1.4	1.3	1.3	1.3	1	1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0043	0.0042	<0.002	<0.002	0.03	0.0038	0.0037	0.0061
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	213	.	217	.	209	.	203	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	150	140	130	150	150	140	120	130
Chloride	40	.	41	.	34.7	.	40	.
Fluoride	0.2	.	<0.1	.	0.1	.	<0.1	.
Magnesium	51	50	51	50	54	50	46	47
Manganese	0.0035	0.0028	0.0076	0.0043	0.0036	0.0042	0.0037	0.0036
Nitrate-N	88	.	79	.	74.1	.	87	.
Potassium	2.6	2.5	2.5	2.5	2.8	2.2	2.4	2.6
Sodium	16	16	18	16	18	14	14	15
Sulfate	36	.	38	.	32.6	.	33	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-226				GW-227			
	OLF				OLF			
	02/08/91		05/13/91		02/08/91		05/12/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	3.7	0.065	2.3	<0.02	0.061	0.08	0.043	0.031
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.51	0.48	0.47	0.44	0.1	0.1	0.11	0.11
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.58	0.54	0.71	0.76	0.056	0.023	0.084	0.085
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	0.0035	<0.003	<0.003	0.0047	0.0042	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.018	<0.01	<0.01	<0.01
Cobalt	0.026	0.03	0.14	0.031	<0.005	<0.005	<0.005	<0.005
Copper	0.0069	<0.004	0.014	<0.004	0.0067	0.006	<0.004	<0.004
Iron	20	13	82	40	0.53	0.041	0.53	0.11
Lead (AAS)	0.0078	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.048	0.052	0.19	0.044	<0.01	0.013	<0.01	<0.01
Selenium	<0.05	<0.05	0.17	0.11	<0.05	<0.05	<0.05	<0.05
Silicon	11	6.6	9.3	6.2	3.5	1.5	3.8	3.8
Silver	<0.006	<0.006	0.0066	0.0073	<0.006	<0.006	<0.006	<0.006
Strontium	0.34	0.34	0.36	0.35	0.19	0.19	0.21	0.21
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.088	0.089	0.056	0.078	0.118	0.119	0.085	0.1
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.073	0.017	0.13	0.019	0.0027	0.0071	0.011	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	284	.	510	.	490	.	292	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	170	170	160	170	110	120	120	120
Chloride	69	.	109	.	18	.	20	.
Fluoride	0.1	.	<0.1	.	0.3	.	0.22	.
Magnesium	29	29	26	26	20	20	21	20
Manganese	13	12	16	16	0.097	0.082	0.19	0.19
Nitrate-N	0.7	.	<0.2	.	18	.	17	.
Potassium	6.2	5.3	6.3	5.9	2.2	1.7	2.3	2.3
Sodium	35	34	44	43	12	11	11	12
Sulfate	41	.	45.5	.	41	.	39	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-227				GW-243			
	OLF				S3			
	08/31/91		11/01/91		01/22/91		04/18/91	08/06/91
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.12	0.087	0.094	<0.02	750	730	.	790
Antimony	<0.05	<0.05	<0.05	<0.05	<5	<5	.	<5
Arsenic	<0.05	<0.05	<0.05	<0.05	<5	<5	.	<5
Barium	0.11	0.11	0.13	0.13	10	5.6	.	8.3
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	0.058	0.058	.	0.08
Boron	1.4	1.2	0.041	0.042	3.2	1.4	.	1.5
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	1.6	1.6	.	4
Cadmium	<0.003	0.0039	<0.003	<0.003	2.1	2	.	2.3
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.31	0.32	.	0.31
Chromium	<0.01	<0.01	<0.01	<0.01	<1	<1	.	<1
Cobalt	<0.005	<0.005	<0.005	<0.005	1.3	1.3	.	1.3
Copper	<0.004	<0.004	<0.004	<0.004	1.4	1.1	.	0.9
Iron	0.69	0.17	1.2	0.021	<0.4	<0.4	.	<0.5
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	0.0051	0.006	.	0.0075
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	0.071	0.066	.	0.0023
Molybdenum	<0.01	<0.01	<0.01	<0.01	<1	<1	.	<1
Nickel	<0.01	<0.01	<0.01	<0.01	19	18	.	20
Selenium	<0.05	<0.05	<0.05	<0.05	<5	<5	.	<5
Silicon	.	.	.	.	31	12	.	9.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.6	<0.6	.	<0.6
Strontium	0.24	0.25	0.39	0.39	12	12	.	12
Thorium	<0.2	<0.2	<0.2	<0.2	<20	<20	.	<20
Uranium (Fluor)	0.034	0.035	0.024	0.024	36.9	42.2	.	44
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	.	<0.5
Zinc	0.0086	0.018	0.0078	0.0029	3.1	3.1	.	3.3
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	275	.	258	.	<1	.	.	<1
Alkalinity-CO3	<1	.	<1	.	<1	.	.	<1
Calcium	130	120	120	120	6300	6100	.	6800
Chloride	19.7	.	29	.	442	.	.	397.1
Fluoride	0.2	.	0.12	.	0.6	.	.	0.4
Magnesium	25	25	31	31	640	630	.	680
Manganese	0.042	0.017	0.092	0.0088	200	190	.	210
Nitrate-N	20.8	.	45	.	940	.	.	6607
Potassium	1.9	1.9	2.2	2.3	1.0	140	.	74
Sodium	12	12	13	13	810	810	.	900
Sulfate	28	.	28	.	665	.	.	759

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-243			GW-286				GW-287
	S3			BG				BG
	08/06/91	10/11/91		09/14/91		11/23/91		09/14/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	760	790	760	0.053	0.026	0.89	<0.02	0.15
Antimony	<5	<5	<5	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<5	<5	<5	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	10	5.3	4.7	0.28	0.27	0.31	0.29	1.6
Beryllium	2	0.066	0.046	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	5.5	0.75	1.3	0.021	0.055	0.015	0.014	0.024
Cadmium (AAS)	2.5	2.2	2.2	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	4.7	2.4	2.1	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	0.32	0.19	0.21	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	2.5	<1	<1	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	3.5	1.8	1.5	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	3.2	1.2	1.2	0.0059	<0.004	0.0047	<0.004	<0.004
Iron	1.8	<0.5	<0.5	0.054	0.016	1.1	0.013	0.15
Lead (AAS)	0.0075	0.0058	0.0076	<0.004	<0.004	0.0043	<0.004	<0.004
Mercury (CVAA)	0.002	0.11	0.1	<0.0002	<0.0002	<0.0002	<0.0002	0.0004
Molybdenum	2.3	<1	<1	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	22	19	19	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<5	<5	<5	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.6	.	.	.	.	.	.	.
Silver	1.8	<0.6	<0.6	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	14	11	11	0.092	0.089	0.099	0.092	0.086
Thorium	<20	<2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	46	40	41	<0.001	0.001	<0.001	<0.001	0.001
Vanadium	2.1	<0.5	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	5.5	3.2	3	0.013	0.0056	0.017	0.0053	0.013
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	<1	.	134	.	135	.	107
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	6500	6800	6600	50	46	56	45	42
Chloride	.	400	.	1	.	1.3	.	2
Fluoride	.	110	.	0.1	.	0.2	.	0.1
Magnesium	660	690	670	4.6	4.3	5.2	4.3	4.7
Manganese	200	210	210	0.032	0.025	0.073	0.015	0.021
Nitrate-N	.	5870	.	<0.2	.	<0.2	.	<0.2
Potassium	140	200	140	0.82	0.66	1.1	1.1	1.3
Sodium	850	870	850	4.5	4.5	4.7	4.9	3.5
Sulfate	.	1800	.	6	.	7.2	.	9

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-287			GW-290				GW-291
	BG			BG				BG
	09/14/91	11/23/91		03/21/91		06/20/91		03/24/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.34	0.022	<0.02	<0.02	0.12	0.039	0.12
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.12	0.11	0.25	0.22	0.5	0.24	0.22
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.017	0.018	0.016	0.43	0.4	0.87	0.9	2.1
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0035	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0093	0.01	0.0046	<0.004	<0.004	<0.004	0.041
Iron	0.0097	0.39	<0.005	0.042	<0.005	0.14	<0.005	0.13
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.015	0.012	0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	1.8	0.53	10	10	3.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.075	0.068	0.065	0.33	0.29	0.43	0.31	0.14
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.012	0.019	0.012	0.0071	0.0054	0.0025	0.0064	0.054
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	106	.	232	.	223	.	171
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	48	37	33	80	67	130	76	68
Chloride	.	1.7	.	4	.	4	.	6
Fluoride	.	0.1	.	0.1	.	0.2	.	<0.1
Magnesium	4.5	5.9	5.1	10	9.7	14	11	11
Manganese	0.015	0.032	0.0066	0.056	0.021	0.042	0.0067	0.013
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	0.5
Potassium	0.92	1.5	1.9	2.1	2.4	2.7	2.7	1.5
Sodium	3.7	4.2	4.2	8.7	8.7	9.8	9.4	8.6
Sulfate	.	8	.	16	.	16	.	17

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-291			GW-306				GW-307
	BG			RS				RS
	03/24/91	06/21/91		01/14/91		04/26/91		01/14/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.028	0.039	<0.02	0.13	0.045	1.1	0.032	1.2
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.16	0.18	0.14	0.044	0.043	0.036	0.037	0.07
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00033	0.00042	<0.0003
Boron	3.5	4.2	4.2	0.023	0.035	0.027	0.033	0.038
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	0.0037	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.077	0.063	0.018
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0086	0.015	0.0057	0.0083	<0.004	0.0071	0.0066	0.034
Iron	0.0084	0.031	0.0058	0.15	0.0041	1.5	0.01	1.2
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.5	8.9	9.1	4.4	4.6	5.1	4.1	5.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.12	0.13	0.13	0.16	0.17	0.13	0.13	0.24
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0066	<0.005
Zinc	0.043	0.022	0.028	0.016	0.0058	0.017	0.0085	0.056
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	185	.	296	.	276	.	319
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	58	74	73	130	130	94	91	160
Chloride	.	<5	.	17	.	<10	.	30
Fluoride	.	0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	10	11	12	16	16	15	14	15
Manganese	0.0075	0.014	0.023	0.004	0.0014	0.033	0.007	0.053
Nitrate-N	.	<2	.	11	.	7	.	12
Potassium	1.3	1.3	1.8	2.3	2.4	2.1	1.8	4.4
Sodium	7.1	9	8.9	6	6.3	3.9	3.9	9.1
Sulfate	.	13	.	41	.	21	.	98

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-307			GW-308				GW-309
	RS			RS				RS
	01/14/91	04/26/91		01/14/91		04/30/91		01/13/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.14	0.19	0.096	7.1	0.054	1.5	0.19	0.06
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.067	0.071	0.068	0.07	0.039	0.055	0.045	0.045
Beryllium	<0.0003	<0.0003	<0.0003	0.00065	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.033	0.047	0.047	0.055	0.04	0.057	0.096	0.072
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	0.0043	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	0.038	0.037	0.01	<0.01	0.016	0.016	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.02	<0.004	0.011	0.024	0.012	0.022	0.0048	0.0065
Iron	0.026	0.19	0.031	8.1	<0.004	4.3	0.072	0.012
Lead (AAS)	<0.004	<0.004	0.0049	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.012	<0.01	0.013	0.014	<0.01	0.014	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.4	3.1	3.8	8.8	4.4	6.7	4.4	3.7
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.25	0.25	0.25	0.28	0.28	0.32	0.29	0.43
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.002
Vanadium	<0.005	<0.005	0.0074	0.0068	<0.005	<0.005	<0.005	<0.005
Zinc	0.027	0.018	0.024	0.046	0.011	0.021	0.0082	0.0027
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	315	.	347	.	331	.	434
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	170	150	160	180	180	200	180	190
Chloride	.	23	.	23	.	23	.	28
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	16	15	16	16	15	17	16	22
Manganese	0.028	0.029	0.045	0.27	0.027	0.11	0.034	3.1
Nitrate-N	.	11	.	11	.	8	.	14
Potassium	3.9	3.4	3.7	5.6	3.5	3.9	3.1	4.3
Sodium	8.7	9.9	8.9	10	9.8	11	10	12
Sulfate	.	75	.	99	.	126	.	73

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-309							GW-310
	RS							RS
	01/13/91	04/25/91		08/13/91		10/23/91		01/15/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.071	<0.02	<0.02	0.051	0.039	0.037	0.038	0.14
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.045	0.043	0.048	0.041	0.041	0.037	0.037	0.068
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.068	0.071	0.074	0.065	0.054	0.063	0.086	0.15
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0082	<0.004	0.013	<0.004	0.0043	<0.004	<0.004	0.0076
Iron	<0.004	0.016	<0.005	0.013	0.0051	0.014	0.028	0.073
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.7	3.6	3.9	3.1	2.4	.	.	1.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.43	0.39	0.39	0.45	0.44	0.35	0.36	0.31
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Picor)	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.001	0.0067	0.016	0.0063	0.0037	0.013	0.0089	0.0061
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	411	.	396	.	394	.	232
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	190	170	180	180	180	180	180	130
Chloride	.	35	.	38	.	36	.	23
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	0.2
Magnesium	21	23	23	25	25	22	22	12
Manganese	3	3.4	3.3	3.6	3.7	2.4	2.5	0.0029
Nitrate-N	.	14.4	.	18	.	15.12	.	14
Potassium	4.3	3.7	3.7	3.6	4	3.6	3.5	3.5
Sodium	12	13	13	12	12	13	13	11
Sulfate	.	57	.	55	.	53	.	84

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-310			GW-311				GW-312
	RS			RS				RS
	01/15/91	04/30/91		01/13/91		04/26/91		01/14/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.041	0.21	0.038	0.091	0.039	0.029	<0.02	4.6
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.064	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.063	0.062	0.06	0.016	0.016	0.053	0.13	0.034
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00054	<0.0003
Boron	0.14	0.13	0.14	0.021	<0.004	0.015	0.072	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.011	<0.01	0.012	<0.01	<0.01	<0.01	0.1	0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0088	0.011	<0.004	0.023	0.03	0.0043	<0.004	0.0058
Iron	0.011	0.15	<0.005	0.072	<0.004	0.041	0.016	0.13
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0059
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.016	<0.01	0.013	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	1.5	1.9	1.6	4.5	3.8	4.6	3.8	2.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.29	0.29	0.29	0.069	0.071	0.068	0.13	0.52
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008
Zinc	0.01	0.018	0.0035	0.038	0.063	0.018	0.011	0.0023
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	231	.	193	.	203	.	<1
Alkalinity-CO3	.	<1	.	<1	.	<1	.	52
Calcium	120	110	110	75	80	73	69	150
Chloride	.	8	.	3	.	3	.	1
Fluoride	.	0.18	.	<0.1	.	<0.1	.	0.3
Magnesium	11	11	11	4.5	4.8	4.7	5.1	0.11
Manganese	0.0024	0.0052	<0.001	0.0053	0.004	0.0049	0.0087	0.0021
Nitrate-N	.	5	.	0.7	.	0.71	.	0.5
Potassium	3	2.5	2.6	1.8	1.6	1.3	1.4	18
Sodium	9.3	9.1	7	3.1	1.7	1.6	1.5	8.1
Sulfate	.	39	.	4	.	4	.	4

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-312			GW-313				
	RS			SPI				
	01/14/91	04/26/91		01/09/91		04/09/91		07/18/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	4.2	4.2	4	0.056	0.081	0.057	<0.02	0.11
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.088	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.032	0.029	0.032	0.021	0.021	0.02	0.02	0.025
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.005	<0.004	<0.004	0.015	0.013	0.015	0.0095	0.035
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.028	0.15	0.23	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.005	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.029
Iron	0.016	0.11	0.2	0.016	0.013	0.088	0.0092	0.096
Lead (AAS)	0.0059	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.016	0.025	<0.01	<0.01	<0.01	<0.01	<0.01	0.15
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	1.4	2.1	2.2	5.1	5	5.3	5.4	5.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.53	0.46	0.5	0.071	0.07	0.067	0.069	0.079
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	0.0099	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0046	0.0046	0.016	0.0041	0.0044	0.013	0.017	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	<1	.	283	.	303	.	299
Alkalinity-CO3	.	70	.	<1	.	<1	.	<1
Calcium	150	150	160	84	83	93	94	78
Chloride	.	1	.	2	.	2	.	2
Fluoride	.	0.2	.	<0.1	.	<0.1	.	<0.1
Magnesium	0.032	0.12	0.17	18	18	21	22	22
Manganese	<0.001	0.0044	0.0015	<0.001	<0.001	0.0047	<0.001	0.0041
Nitrate-N	.	2	.	1.5	.	0.7	.	1.62
Potassium	18	12	13	1.2	1.3	1.1	1.1	1.4
Sodium	7.9	7.6	9.2	1.1	1.2	0.96	0.97	3.3
Sulfate	.	4	.	2	.	2	.	3.32

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-313			GW-314				
	SPI			SPI				
	07/18/91	10/05/91		01/08/91		04/08/91		07/20/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.048	0.082	<0.02	0.028	0.056	0.062	0.035	0.026
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.024	0.024	0.026	0.035	0.034	0.03	0.03	0.046
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.038	0.033	0.041	0.018	0.015	<0.004	<0.004	0.013
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	0.0042	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.027	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.021	<0.004	0.0069	<0.004	0.0052	<0.004	<0.004	<0.004
Iron	<0.005	0.13	0.035	0.0043	<0.004	0.02	<0.005	<0.005
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.12	<0.01	<0.01	<0.01	<0.01	0.025	0.012	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.5	.	.	4.9	4.7	4.5	4.5	4.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.08	0.083	0.085	0.093	0.091	0.06	0.061	0.14
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.02	0.0095	0.0076	0.0055	0.0045	<0.002	<0.002	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	346	.	252	.	266	.	243
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	78	110	110	78	77	67	67	100
Chloride	.	2	.	2	.	2	.	8
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	22	22	22	14	14	19	19	16
Manganese	<0.001	0.0055	0.0017	0.012	0.013	0.014	0.013	0.028
Nitrate-N	.	2	.	3.1	.	0.99	.	18
Potassium	1.2	1.3	2	1.7	1.5	1.2	1.2	2.3
Sodium	1.3	1.3	3	1.9	1.7	0.55	0.5	5
Sulfate	.	3	.	3	.	3	.	20

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-314			GW-315				
	SPI			SPI				
	07/20/91	10/05/91		01/08/91		04/08/91		07/20/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.048	<0.02	0.039	0.05	0.05	<0.02	0.031	0.033
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.074	<0.05
Barium	0.049	0.037	0.037	0.034	0.033	0.035	0.034	0.057
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	<0.004	0.96	0.017	0.025	<0.004	<0.004	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.01	0.014	0.017	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0084	<0.004	<0.004	<0.004	0.011	<0.004	<0.004	0.0072
Iron	0.025	0.046	0.064	0.0085	0.02	<0.005	<0.005	0.0055
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	0.016	0.018	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.1	.	.	4.7	5.7	4.3	4.4	4.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.14	0.076	0.075	0.09	0.089	0.097	0.097	0.19
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0021	0.01	0.0053	0.0079	0.0073	<0.002	<0.002	0.003
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	296	.	238	.	242	.	225
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	110	87	86	75	75	76	75	120
Chloride	.	3	.	2	.	3	.	<10
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	17	21	21	13	13	13	13	13
Manganese	0.028	0.026	0.025	<0.001	<0.001	<0.001	<0.001	0.0019
Nitrate-N	.	4	.	3	.	6	.	22.4
Potassium	2.2	1.1	1.1	1.9	1.5	1.6	1.8	3.3
Sodium	5.3	2	3.5	1.9	1.6	1.2	1.1	7
Sulfate	.	4	.	3	.	10	.	25.3

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-315			GW-316				
	SPI			SPI				
	07/20/91	10/05/91		01/08/91		04/08/91		07/18/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.047	0.076	0.12	0.19	0.05	0.13	0.035	0.21
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.057	0.061	0.062	0.014	0.015	0.013	0.015	0.015
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.031	1.1	1.1	0.016	0.026	<0.004	<0.004	0.028
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.0096	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0045	<0.004	0.0065	0.0063	<0.004	<0.004	<0.004	0.027
Iron	<0.005	0.018	0.028	0.15	0.024	0.16	<0.005	0.22
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	0.11
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.1	.	.	4.7	4.7	4.1	4.1	5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.19	0.2	0.2	0.026	0.026	0.024	0.032	0.028
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0074	0.0077	0.026	0.013	0.0097	<0.002	0.031
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	232	.	190	.	188	.	184
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	120	120	120	38	38	37	39	42
Chloride	.	11	.	2	.	2	.	1
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	0.2
Magnesium	12	14	14	20	19	20	21	24
Manganese	0.0019	0.0025	0.0024	0.016	0.0088	0.0081	0.0038	0.0079
Nitrate-N	.	34	.	0.6	.	0.5	.	0.43
Potassium	3.6	3.1	2.7	1.7	2	1.6	2.3	1.9
Sodium	7.1	9.6	9.8	1.6	1.8	0.69	0.32	1.7
Sulfate	.	17	.	2	.	3	.	4

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-316			GW-317				
	SPI			SPI				
	07/18/91	10/05/91		01/06/91		04/06/91		07/10/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.023	0.14	0.034	0.045	0.054	<0.02	<0.02	0.099
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.014	0.012	0.016	0.02	0.024	0.017	0.019	0.022
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.023	0.019	0.068	0.064	0.021	0.074	0.039
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0069	<0.004	<0.004	<0.004	0.0056	0.0087
Iron	<0.005	0.18	0.07	0.023	0.0044	0.015	<0.005	0.12
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4	.	.	4.7	3.5	4.5	3.9	4.4
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.027	0.023	0.029	0.041	0.04	0.037	0.034	0.041
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.02	0.017	0.021	0.005	0.0089	0.0038	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	191	.	204	.	208	.	198
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	34	42	44	42	43	43	43	44
Chloride	.	1	.	1	.	<1	.	<1
Fluoride	.	0.1	.	<0.1	.	0.1	.	0.1
Magnesium	21	21	23	20	21	20	21	20
Manganese	0.0018	0.0069	0.0049	<0.001	0.0013	<0.001	<0.001	0.0039
Nitrate-N	.	0.4	.	0.3	.	0.2	.	<0.2
Potassium	2	1.4	2.8	1	0.9	1	0.76	0.75
Sodium	0.63	2.6	4.1	7.2	3.2	5.7	2	2.9
Sulfate	.	3	.	7	.	5	.	9

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-317			GW-323				
	SPI			SPI				
	07/10/91	10/03/91		01/06/91		04/04/91		07/03/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.039	<0.02	<0.02	0.069	0.039	<0.02	0.03	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	0.052	<0.05	<0.05
Barium	0.031	0.021	0.024	0.32	0.3	0.32	0.3	0.36
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.047	0.0083	0.045	0.066	0.051	0.013	0.016	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.0054	0.018	0.067	0.11	0.0053	0.04	0.0089	0.009
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.005	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.019	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.6	.	.	2.6	3.9	3.8	3.9	4.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.04	0.034	0.034	0.034	0.034	0.018	0.02	0.019
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0095	0.0044	<0.002	0.005	0.0051	0.0097	0.0057	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	203	.	212	.	213	.	197
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	41	45	44	39	38	38	39	34
Chloride	.	<1	.	1	.	1	.	<1
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	20	20	20	24	24	24	25	24
Manganese	0.0023	<0.001	<0.001	0.011	0.0055	<0.001	<0.001	<0.001
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.74	0.83	0.71	1.1	1.1	0.99	1	<0.6
Sodium	2.8	3.9	3.9	0.98	1.1	0.73	0.75	0.57
Sulfate	.	5	.	2	.	2	.	2

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-323			GW-324				GW-325
	SPI			S3				S3
	07/03/91	10/03/91		01/05/91		04/03/91		01/05/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	<0.02	<0.02	0.039	0.026	<0.02	0.96
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.35	0.37	0.37	0.19	0.19	0.19	0.19	0.095
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.0041	0.011	0.0066	0.035	0.38	0.018	0.015	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.017
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0087
Iron	<0.005	0.09	0.064	0.07	0.069	0.075	0.055	0.88
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0065
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.031
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.8	.	.	9.1	7.6	7.5	7.5	6.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.019	0.02	0.02	0.23	0.23	0.23	0.23	0.021
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0036	<0.002	0.0012	0.0014	0.0056	0.0056	0.03
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	206	.	100	.	100	.	9
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	34	41	41	27	28	28	28	3.2
Chloride	.	1	.	1	.	1	.	2
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	25	25	25	5.2	5.2	5.1	5.2	1.1
Manganese	<0.001	<0.001	<0.001	0.015	0.015	0.011	0.016	0.081
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.1	0.96	0.8	0.79	0.94	0.96	0.96	0.66
Sodium	0.61	0.81	0.8	4.6	5	4.7	4.7	1.3
Sulfate	.	2	.	6	.	8.9	.	3

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-325			GW-342				
	S3			BG				
	01/05/91	04/04/91		03/06/91		06/13/91		09/05/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.029	<0.02	1.2	0.11	6.8	0.71	3.9
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.091	0.11	0.14	0.23	0.18	0.34	0.12	0.34
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0009	<0.0003	0.0009
Boron	0.014	0.028	0.0099	0.0092	0.011	0.05	0.033	0.057
Cadmium (AAS)	<0.002	<0.002	<0.002	0.0024	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0032	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0043	<0.004	<0.004	0.018	0.019	0.0052
Iron	0.0092	0.12	0.096	3	1.5	6.4	1.2	5.7
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.011	<0.004	0.013
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00021	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.032	<0.01	<0.01	<0.01	0.015	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.8	3.8	4.3	13	11	20	11	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.03	0.015	0.018	0.034	0.031	0.067	0.043	0.069
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.03	0.081	0.17	0.021	0.0033	0.029	0.013	0.029
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	8	.	35	.	36	.	34
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	3.2	2.6	2.7	4.8	4.2	8.1	5.2	8.5
Chloride	.	2	.	<1	.	1	.	<1
Fluoride	.	<0.1	.	0.2	.	0.23	.	0.2
Magnesium	1	1	1.2	6	5.5	10	6.1	11
Manganese	0.07	0.024	0.032	0.3	0.28	0.54	0.32	0.53
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	<0.6	<0.6	1.9	1.9	2.3	2.1	2.3
Sodium	1.4	1.5	2.3	5.6	5.1	7.3	8.8	8.5
Sulfate	.	8	.	9	.	18	.	9

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-342			GW-343				
	BG			BG				
	09/05/91	11/05/91		03/07/91		06/14/91		09/05/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.31	0.85	0.024	<0.02	<0.02	0.034	<0.02	0.04
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.14	0.31	0.14	0.19	0.15	0.16	0.12	0.15
Beryllium	<0.0003	0.00077	<0.0003	0.00039	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.017	0.02	<0.004	0.015	0.051	0.054	0.048
Cadmium (AAS)	<0.002	<0.002	<0.002	0.0045	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.017	0.0064	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.017	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0055	<0.004	0.01	0.0089	<0.004	0.0061	<0.004
Iron	0.52	3.3	0.45	7.5	0.012	5.6	0.013	3
Lead (AAS)	<0.004	0.011	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	2.6	11	13	12	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.036	0.053	0.033	0.059	0.059	0.061	0.06	0.056
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.002	<0.001	0.001	0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0033	0.024	0.012	0.028	0.0055	0.016	0.0044	0.015
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	41	.	142	.	126	.	132
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	5	7.6	5.1	31	31	32	32	35
Chloride	.	<1	.	2	.	2	.	2
Fluoride	.	0.2	.	<0.1	.	0.11	.	0.1
Magnesium	6.9	9.9	7	11	11	11	10	11
Manganese	0.3	0.51	0.24	0.06	0.048	0.058	0.04	0.062
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	2.3	2.1	1.9	3.2	3.3	3	2.9	3.1
Sodium	8.7	6.8	6.6	6.7	7.4	6.7	6.6	6.8
Sulfate	.	14	.	4	.	5	.	5

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-343			GW-344				
	BG			BG				
	09/05/91	11/07/91		03/09/91		06/15/91		09/08/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.21	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.14	0.41	0.053	0.19	0.19	0.19	0.18	0.18
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.0054	0.015	0.033	0.038	0.02	0.023	0.051
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0079	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.0067	110	0.18	1.9	0.21	0.92	0.38	0.95
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	11	11	1.6	11	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.058	0.065	0.051	1.7	1.7	1.8	1.8	1.6
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.05	0.0071	0.0031	<0.002	<0.002	<0.002	0.017
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	142	.	142	.	139	.	135
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	37	30	29	30	30	35	32	30
Chloride	.	2	.	<1	.	<1	.	<1
Fluoride	.	<0.1	.	<0.1	.	0.1	.	<0.1
Magnesium	12	9.8	9.8	10	10	11	10	10
Manganese	0.055	0.37	0.0081	0.09	0.077	0.079	0.071	0.075
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	3.5	3.4	3.4	3.2	2.7	2.7	2.9	2.4
Sodium	6.7	7.1	7.3	16	15	13	13	12
Sulfate	.	5	.	14	.	15	.	14

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-344			GW-345				GW-347
	BG			S3				S3
	09/08/91	11/07/91		01/16/91		04/14/91		04/04/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.025	<0.02	<0.02	0.089	0.037	0.13	<0.02	0.37
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.17	0.18	0.18	0.3	0.22	0.26	0.35	0.015
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.042	0.048	0.042	0.012	<0.004	0.053	0.04	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0082	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	0.0059	<0.004	0.0088	0.011	0.0079
Iron	0.19	0.87	0.29	0.11	0.018	0.11	0.008	0.71
Lead (AAS)	<0.004	<0.004	<0.004	<0.0004	<0.004	<0.004	<0.004	0.0062
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.016	<0.01	<0.01	0.012	0.017	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	7.7	6	7.9	8.3	3.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	1.6	1.5	1.5	0.19	0.13	0.17	0.24	0.031
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0054	0.016	0.0065	0.0078	0.0077	0.019	0.019	0.0082
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	140	.	46	.	30	.	86
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	29	32	31	45	29	39	78	27
Chloride	.	<1	.	10	.	7	.	<1
Fluoride	.	0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	9.4	10	9.9	8.9	6.4	7.7	11	2.4
Manganese	0.068	0.075	0.07	0.083	0.064	0.059	0.072	0.009
Nitrate-N	.	<0.2	.	139	.	30	.	<0.2
Potassium	2.6	3.1	3.3	6.1	6.7	5.6	4.9	3.9
Sodium	13	14	14	12	11	10	11	1
Sulfate	.	16	.	17	.	11	.	2

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-347					GW-348		
	S3					S3		
	04/04/91	07/02/91		10/02/91		04/04/91		07/02/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.96	<0.02	0.84	<0.02	0.12	0.038	0.027
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.018	0.017	0.024	0.032	0.038	0.078	0.076	0.08
Beryllium	<0.0003	<0.0003	<0.0003	0.00038	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	<0.004	<0.004	0.0098	0.02	0.013	0.012	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.018	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.01	<0.004	0.02	<0.004	<0.004	<0.004	0.0059
Iron	<0.005	1.2	<0.005	2.3	<0.005	0.096	0.0053	0.056
Lead (AAS)	<0.004	0.0072	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.049
Nickel	0.015	<0.01	<0.01	0.012	0.012	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.2	4.2	2.7	.	.	4.8	4.5	4.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.032	0.025	0.03	0.062	0.11	0.088	0.087	0.088
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	0.001	0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.012	0.0028	0.024	0.0034	0.0078	0.0071	0.0046
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	87	.	105	.	217	.	216
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	29	26	31	54	77	76	75	79
Chloride	.	<1	.	<1	.	8	.	8
Fluoride	.	0.2	.	0.2	.	<0.1	.	0.1
Magnesium	2.4	2.3	2.4	3.9	7.5	16	16	17
Manganese	<0.001	0.024	0.0036	0.058	0.0096	<0.001	<0.001	<0.001
Nitrate-N	.	<0.2	.	<0.2	.	14	.	11
Potassium	3.7	4.3	4.1	4.3	6	1.5	1.3	1.7
Sodium	1	0.83	0.88	1.2	2.8	2.2	2.1	2.5
Sulfate	.	1	.	3	.	6	.	5

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-348			GW-364				
	S3			OLF				
	07/02/91	10/02/91		02/07/91		05/12/91		08/28/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.073	0.078	24	0.042	13	0.09	6.1
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	0.071	<0.05	<0.05	<0.05	<0.05
Barium	0.079	0.08	0.081	0.37	0.12	0.27	0.12	0.2
Beryllium	<0.0003	<0.0003	<0.0003	0.0013	<0.0003	0.0011	<0.0003	0.00047
Boron	<0.004	0.027	0.22	0.11	0.11	0.12	0.14	0.12
Cadmium (AAS)	<0.002	<0.002	<0.002	0.0049	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.0054	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	0.034	<0.01	0.049	0.012	0.021
Chromium	<0.01	<0.01	<0.01	0.029	<0.01	0.03	<0.01	0.015
Cobalt	<0.005	<0.005	<0.005	0.017	<0.005	0.011	<0.005	0.0062
Copper	0.0042	<0.004	<0.004	0.068	0.0095	0.022	0.0067	0.0067
Iron	<0.005	0.058	0.013	31	<0.005	19	0.047	5.8
Lead (AAS)	<0.004	<0.004	<0.004	0.021	<0.004	0.023	<0.004	0.012
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.076	0.014	0.053	0.024	0.027
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	0.062	<0.05	<0.05
Silicon	3.7	.	.	8.6	6.2	22	6.5	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.087	0.097	0.096	0.53	0.5	0.51	0.53	0.52
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.002
Vanadium	<0.005	<0.005	<0.005	0.034	<0.005	0.024	<0.005	0.0099
Zinc	0.0036	0.0033	0.0049	0.17	0.0034	0.077	0.019	0.037
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	229	.	228	.	233	.	230
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	79	80	76	96	76	99	85	96
Chloride	.	8	.	32	.	42	.	37
Fluoride	.	0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	17	17	16	22	18	20	18	19
Manganese	<0.001	<0.001	<0.001	1.6	0.0019	1	0.0046	0.4
Nitrate-N	.	4	.	0.5	.	0.65	.	1.5
Potassium	1.6	1.3	1.2	7.1	3	5.2	2.7	3.3
Sodium	2.2	2.6	3	8.5	11	6.6	10	6.7
Sulfate	.	4	.	32	.	34	.	32

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-364			GW-365				
	OLF			OLF				
	08/28/91	10/28/91		02/09/91		05/14/91		08/28/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.35	0.028	0.084	0.057	0.025	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.14	0.14	0.32	0.33	0.3	0.32	0.3
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.12	0.14	0.13	0.2	0.1	0.26	0.19	0.19
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.0031	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0084	<0.004	<0.004	<0.004	0.0075	<0.004
Iron	<0.005	0.43	0.025	1.7	1.5	1.3	1.5	1.1
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.015	0.018	0.012	0.03	0.035	0.026	0.03	0.027
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	3.2	2.7	7.4	7.5	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.53	0.51	0.52	0.75	0.77	0.79	0.82	0.77
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0066	0.016	0.011	<0.002	<0.002	0.0066	0.0082	0.0041
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	239	.	218	.	318	.	312
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	94	95	92	130	130	130	130	130
Chloride	.	45	.	62	.	75	.	17
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	19	19	19	25	25	24	24	25
Manganese	0.0087	0.1	0.011	0.085	0.092	0.074	0.077	0.071
Nitrate-N	.	0.44	.	<0.2	.	<0.2	.	<0.2
Potassium	2.2	2.8	2.8	3.4	3.3	3.6	3.5	2.9
Sodium	7	7.3	7.7	13	13	13	14	12
Sulfate	.	35	.	53	.	52	.	51

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-365			GW-366				
	OLF			OLF				
	08/28/91	10/29/91		02/01/91		05/11/91		08/27/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.025	0.02	1	<0.02	6	0.03	0.37
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.3	0.32	0.33	0.14	0.1	0.16	0.14	0.026
Beryllium	<0.0003	<0.0003	<0.0003	0.00068	<0.0003	0.00048	<0.0003	<0.0003
Boron	0.18	0.18	0.19	0.024	0.027	<0.004	0.0052	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	0.012	<0.01	0.016	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	0.0052	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	0.058	<0.004	0.0098	<0.004	<0.004
Iron	1.1	1.3	1.3	0.41	<0.004	4	<0.005	0.16
Lead (AAS)	<0.004	<0.004	<0.004	0.017	<0.004	0.01	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	0.00026	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.022	0.022	0.025	<0.01	<0.01	0.011	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	6.9	5.8	16	6.2	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.76	0.76	0.76	0.074	0.06	0.075	0.07	0.046
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005
Zinc	0.005	0.0086	0.0071	0.3	0.026	0.18	0.038	0.0026
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	315	.	276	.	274	.	279
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	140	130	130	73	63	64	61	23
Chloride	.	61	.	2	.	2	.	2
Fluoride	.	<0.1	.	0.2	.	0.29	.	0.3
Magnesium	25	25	26	35	32	30	29	33
Manganese	0.071	0.079	0.08	0.099	<0.001	0.1	<0.001	0.0032
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	2.9	3.5	3.4	1.8	1.4	2.8	1.8	1.6
Sodium	12	14	14	2.7	1.6	1.3	1.3	1.4
Sulfate	.	49	.	4	.	3	.	3

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-366			GW-367				GW-369
	OLF			OLF				OLF
	08/27/91	10/25/91		02/02/91		05/11/91		02/10/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.087	0.036	<0.02	<0.02	<0.02	0.027	0.18
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.028	0.13	0.094	0.066	0.065	0.068	0.069	0.081
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.026	0.025	0.016	0.031	0.033	0.0063	0.036
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0053	0.0045	<0.004	<0.004	0.0043	<0.004	<0.004
Iron	<0.005	0.37	0.083	<0.004	<0.004	0.093	<0.005	0.23
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.01
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	3.4	3.3	3.6	3.7	0.9
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	0.13	<0.006	<0.006
Strontium	0.047	0.065	0.054	0.1	0.1	0.1	0.1	0.35
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	<0.001	0.004	0.005	0.005	0.004	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.053	0.0082	0.0044	0.0073	0.0021	<0.002	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	291	.	163	.	167	.	145
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	43	61	41	39	38	33	43	67
Chloride	.	2	.	3	.	4	.	18
Fluoride	.	0.3	.	0.1	.	0.13	.	0.2
Magnesium	34	32	19	18	18	17	18	37
Manganese	<0.001	0.019	0.016	0.0021	0.0014	0.0016	<0.001	0.0048
Nitrate-N	.	<0.2	.	3	.	4	.	8
Potassium	1.8	1.8	1.3	1.1	1.1	1.6	1.5	4.4
Sodium	1.3	2.4	1.5	2.6	2.8	2.5	2.3	7.5
Sulfate	.	4	.	7	.	8	.	43

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-369			GW-370				
	OLF			BG				
	02/10/91	05/15/91		02/28/91		06/10/91		09/09/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.026	0.054	0.029	2.7	0.36	1.6	0.18	2
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.079	0.085	0.079	0.21	0.066	0.078	0.054	0.071
Beryllium	<0.0003	<0.0003	<0.0003	0.00067	<0.0003	0.00039	<0.0003	0.00058
Boron	0.042	0.044	0.065	0.011	0.0097	0.045	0.96	0.019
Cadmium (AAS)	<0.002	<0.002	0.0037	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0032	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	0.029	0.0046	0.028	<0.004	0.0061
Iron	<0.005	0.51	0.0062	5.2	0.62	2.1	0.14	2
Lead (AAS)	<0.004	<0.004	<0.004	0.028	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00025	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6	4.6	4.5	15	11	11	10	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.39	0.57	0.49	0.074	0.056	0.069	0.062	0.058
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	0.001	0.003	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0093	0.0066	0.038	0.014	0.03	<0.002	0.013
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	166	.	90	.	102	.	99
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	42	110	60	32	31	37	33	32
Chloride	.	26	.	1	.	1	.	1
Fluoride	.	0.2	.	<0.1	.	0.11	.	0.1
Magnesium	32	31	29	4.1	3.3	3.9	3.2	3.7
Manganese	0.001	0.0026	<0.001	0.24	0.015	0.055	0.0078	0.047
Nitrate-N	.	15	.	<0.2	.	<0.2	.	<0.2
Potassium	4.5	2.9	5.2	1.7	0.64	1.2	<0.6	1.1
Sodium	7.2	12	9.5	12	12	10	12	10
Sulfate	.	32	.	16	.	14	.	14

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-370			GW-371				GW-372
	BG			BG				BG
	09/09/91	11/14/91		09/09/91		11/14/91		02/22/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.15	0.028	0.12	<0.02	0.027	<0.02	0.12
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.057	0.063	0.06	0.14	0.14	0.14	0.13	0.07
Beryllium	0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00034	<0.0003
Boron	0.017	0.005	0.0061	0.049	0.054	0.061	0.044	0.012
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0035
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.012
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0043	0.01
Iron	0.011	0.14	0.037	3.7	0.086	3.4	1	0.41
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.01	0.011
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	.	.	.	7
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.059	0.064	0.062	1.6	1.6	1.5	1.5	0.17
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0081	0.011	0.0078	0.0054	0.0065	0.0062	0.15	0.0032
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	112	.	286	.	292	.	167
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	35	40	40	77	74	76	76	62
Chloride	.	1.2	.	1	.	1.1	.	2
Fluoride	.	0.3	.	<0.1	.	0.1	.	0.2
Magnesium	3.6	4	3.9	21	21	20	21	11
Manganese	0.0012	0.0026	0.0018	0.033	0.023	0.038	0.032	0.06
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	<0.6	0.67	3.7	3.2	2.6	3.1	1.7
Sodium	9	8.2	8.5	18	16	20	16	9.1
Sulfate	.	10.6	.	16	.	16.6	.	36

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-372							GW-373
	BG							BG
	02/22/91	05/23/91		09/04/91		11/02/91		02/22/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.065	1.6	0.033	1.3	<0.02	0.34	0.028	0.027
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.066	0.083	0.072	0.11	0.11	0.17	0.15	0.044
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.026	0.026	0.028	0.031	0.029	0.033	0.027	0.15
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0031
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
Chromium	0.018	0.013	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.006	0.017	0.0088	0.012	0.0045	0.0089	0.0046	0.0092
Iron	0.016	1.9	0.012	2.1	0.0066	1.3	0.038	0.25
Lead (AAS)	<0.004	<0.004	<0.004	0.0075	<0.004	0.0061	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.017	<0.01	0.017	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6.9	9.5	6.7	.	.	.	.	3.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.17	0.21	0.3	0.24	0.31	0.25	0.31	0.06
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0021	0.012	0.0049	0.017	0.0096	0.018	0.0093	0.0057
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	184	.	181	.	182	.	176
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	30
Calcium	61	62	53	60	64	61	62	1.2
Chloride	.	2	.	2	.	2.4	.	1
Fluoride	.	0.11	.	0.2	.	0.1	.	1.2
Magnesium	11	11	10	11	11	11	11	0.11
Manganese	0.039	0.065	0.034	0.086	0.053	0.074	0.012	0.0021
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.8	2.1	1.9	1.8	1.8	2.3	2.4	0.97
Sodium	9.6	9.4	9.3	9	8.7	9.6	10	110
Sulfate	.	35	.	33	.	36.4	.	30

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-373							GW-520
	BG							OLF
	02/22/91	05/23/91		09/04/91		11/02/91		03/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.35	0.049	0.23	<0.02	0.071	0.022	0.27
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.039	0.05	0.04	0.069	0.024	0.035	0.03	0.074
Beryllium	<0.0003	<0.000	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.15	0.2	0.21	0.17	0.17	0.16	0.16	0.013
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.004
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0079	0.017	<0.004	0.017	<0.004	<0.004	<0.004	0.014
Iron	0.085	1.7	0.2	2.7	0.013	0.3	0.052	0.89
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.057
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.3	4.3	3.7	.	.	.	.	3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.06	0.067	0.065	0.075	0.058	0.054	0.053	0.11
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0058	0.0084	0.005	0.011	0.0042	0.0096	0.0049	0.019
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	182	.	185	.	180	.	<1
Alkalinity-CO3	.	30	.	26	.	28	.	<1
Calcium	1.3	1.4	1.3	1.7	1.3	1.2	1.1	28
Chloride	.	1	.	1	.	1.2	.	65
Fluoride	.	1.08	.	1.5	.	1.5	.	0.2
Magnesium	0.12	0.18	0.1	0.2	0.12	0.13	0.11	2.6
Manganese	<0.001	0.0098	0.0025	0.022	0.0011	0.0042	0.0014	0.038
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.96	0.97	0.88	1.1	0.89	1.1	1.2	8.5
Sodium	110	100	100	100	100	110	100	13
Sulfate	.	16	.	33	.	31.8	.	6

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-520							GW-526
	OLF							S3
	03/25/91	05/12/91		08/27/91		10/24/91		01/16/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.36	0.42	0.43	0.48	0.5	0.41	0.44	0.048
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	0.083	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.067	0.08	0.077	0.083	0.077	0.065	0.06	7.8
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.013	0.027	<0.004	0.0041	0.014	0.019	0.2
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0041	0.006	0.0091	0.0046	0.0045	0.0057	0.0097	0.038
Iron	0.0067	0.19	0.013	0.14	<0.005	0.098	0.0071	0.7
Lead (AAS)	<0.004	0.0086	<0.004	0.0051	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.079
Silicon	4.2	5.6	6.2	.	.	.	.	2.4
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.19	0.21	0.24	0.25	0.24	0.2	0.18	10
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	0.0071	0.0055	<0.005	<0.005	0.0065	0.0058	<0.005
Zinc	0.0028	0.018	0.018	0.0052	0.0033	0.012	0.013	<0.001
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	<1	.	<1	.	<1	.	57
Alkalinity-CO3	.	40	.	30	.	32	.	<1
Calcium	42	57	60	71	68	54	52	84
Chloride	.	70	.	55	.	9	.	13
Fluoride	.	0.24	.	0.2	.	0.2	.	<0.1
Magnesium	0.094	0.33	0.037	0.13	0.029	0.15	0.045	32
Manganese	<0.001	0.0062	<0.001	0.0026	<0.001	0.0022	<0.001	0.017
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	1390
Potassium	9.2	8.6	10	11	11	9	9.6	13
Sodium	15	13	17	18	18	16	16	1300
Sulfate	.	8	.	<10	.	8	.	<10

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-526							GW-531
	S3							OLF
	01/16/91	04/13/91		08/02/91		10/06/91		03/26/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.035	0.024	<0.2	<0.2	<0.2	<0.2	26
Antimony	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.05
Barium	7.8	7.9	8.1	9	9.1	0.95	9.1	0.33
Beryllium	<0.0003	<0.0003	<0.0003	<0.003	0.0068	<0.003	<0.003	0.0019
Boron	0.21	0.21	0.24	0.26	0.3	<0.04	0.72	0.016
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.03	<0.03	<0.03	<0.03	0.0037
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.046
Chromium	0.015	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.043
Cobalt	<0.005	<0.005	<0.005	<0.05	<0.05	<0.05	<0.05	0.018
Copper	0.042	<0.004	<0.004	<0.04	0.092	<0.04	<0.04	0.032
Iron	<0.004	0.85	0.0057	1.5	<0.05	0.35	0.071	32
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.066
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.01
Nickel	0.011	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.047
Selenium	0.065	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.05
Silicon	2.4	3.3	3.3	3.4	4	.	.	52
Silver	<0.006	<0.006	<0.006	<0.06	<0.06	<0.06	<0.06	<0.006
Strontium	10	11	11	12	12	1.1	11	0.059
Thorium	<0.2	<0.2	<0.2	<2	<2	<2	<2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004
Vanadium	<0.005	<0.005	<0.005	<0.05	<0.05	<0.05	<0.05	0.026
Zinc	<0.001	0.0062	0.0023	0.051	0.09	0.034	0.056	0.11
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	53	.	53	.	56	.	24
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	85	84	95	95	97	11	100	13
Chloride	.	14	.	<50	.	<5	.	1.03
Fluoride	.	<0.1	.	0.1	.	0.1	.	<0.1
Magnesium	33	33	36	38	38	4.1	39	8.8
Manganese	0.016	0.018	0.019	0.022	0.025	<0.01	0.044	2.5
Nitrate-N	.	258	.	837	.	657	.	<0.2
Potassium	13	14	13	13	16	<6	17	4.1
Sodium	1200	1200	1200	1400	1500	130	1300	5.7
Sulfate	.	6	.	<50	.	3	.	3.53

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-531			GW-532				GW-533
	OLF			OLF				OLF
	03/26/91	06/24/91		03/26/91		06/24/91		03/26/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.53	13	0.031	0.44	0.022	0.3	0.04	0.4
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.021	0.19	0.027	0.28	0.24	0.32	0.28	0.066
Beryllium	<0.0003	0.0008	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.027	0.024	0.014	0.023	0.0066	0.044	0.035	0.012
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.021	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	0.023	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	0.0074	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.019	0.0053	0.0058	<0.004	0.0071	0.006	<0.004
Iron	0.62	14	0.014	0.62	0.0064	0.32	0.017	0.77
Lead (AAS)	<0.004	0.031	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.023	<0.01	<0.01	0.012	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	11	19	13	8.9	8	9.9	9.4	12
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.016	0.051	0.021	0.094	0.09	0.11	0.1	0.033
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.017	0.057	0.019	0.013	0.011	0.011	0.0063	0.0088
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	22	.	173	.	162	.	61
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	4.5	11	5.2	55	53	65	62	19
Chloride	.	<1	.	0.72	.	<1	.	1.07
Fluoride	.	0.1	.	<0.1	.	0.1	.	<0.1
Magnesium	1.5	4.9	1.5	4.2	3.9	4.7	4.4	2
Manganese	0.054	0.93	0.056	0.12	0.029	0.074	0.05	0.044
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	2.8	<0.6	0.9	0.68	1.1	0.88	<0.6
Sodium	5.7	6.3	5.6	4.3	4	5.6	5.1	5.5
Sulfate	.	3	.	4	.	3	.	8.9

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-533			GW-534				GW-535
	OLF			OLF				OLF
	03/26/91	06/25/91		03/26/91		06/25/91		03/26/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	2.7	0.045	0.048	0.064	0.074	0.036	1.1
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.063	0.11	0.065	0.62	0.69	0.72	0.72	0.39
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.021	0.018	0.039	0.048	0.041	0.049	0.044	0.031
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	0.0032	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.019	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.023	0.005	0.0044	<0.004	0.0058	<0.004	<0.004
Iron	0.0071	4.3	0.04	0.16	0.081	0.38	0.31	2.1
Lead (AAS)	<0.004	0.017	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.012	0.039	0.019	<0.01	0.017	0.014	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.9	15	10	9.1	9.1	11	11	11
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.034	0.041	0.037	0.79	0.9	0.54	0.58	0.16
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0086	0.021	0.011	0.0046	0.0087	0.0088	0.0054	0.01
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	62	.	255	.	179	.	241
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	19	21	20	54	62	85	67	85
Chloride	.	1	.	1.8	.	2	.	4.4
Fluoride	.	0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	2	2.7	2	8.4	9.5	8.5	8.3	8.5
Manganese	0.0012	0.32	0.017	0.1	0.11	0.19	0.17	0.39
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	1.1	<0.6	2.2	2.2	1.6	1.8	1.1
Sodium	5.3	5.8	6	8	8.3	6.8	7.9	4.7
Sulfate	.	7	.	8	.	7	.	14.1

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-535			GW-537				
	OLF			OLF				
	03/26/91	06/24/91		03/26/91		06/25/91		08/14/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	3.5	0.09	0.21	0.21	0.14	0.11	<0.2
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
Barium	0.34	0.38	0.33	2	2.1	1.8	1.8	2.1
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00055	<0.003
Boron	0.013	0.046	0.038	0.027	0.027	0.054	0.17	0.049
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.03
Chromium (AAS)	<0.01	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	0.016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
Copper	<0.004	0.087	0.012	0.018	0.012	0.013	0.016	<0.04
Iron	0.28	8.1	0.14	0.038	0.0061	0.042	0.011	0.073
Lead (AAS)	<0.004	0.012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
Nickel	<0.01	0.022	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
Selenium	<0.05	<0.05	<0.05	0.064	0.051	0.086	0.1	<0.5
Silicon	8.9	14	9.2	9	9.5	8.9	8.7	9.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.06
Strontium	0.16	0.15	0.16	2.4	2.5	2.3	2.3	2.7
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2
Uranium (Fluor)	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001
Vanadium	<0.005	0.0059	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
Zinc	0.013	0.26	0.021	0.0044	0.0045	0.0038	0.0045	0.038
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	197	.	223	.	208	.	220
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	80	86	87	1000	1100	1100	1100	1200
Chloride	.	3	.	24.3	.	20	.	21
Fluoride	.	0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	7.8	8.7	8.3	63	66	53	53	74
Manganese	0.37	0.82	0.73	<0.001	<0.001	0.0042	0.0038	<0.01
Nitrate-N	.	<0.2	.	3293	.	626	.	647
Potassium	0.91	2.4	1.2	3.1	2.9	2.3	2.6	6.5
Sodium	4.5	5.4	5.2	26	26	21	22	26
Sulfate	.	11	.	<1	.	<10	.	<10

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-537			GW-538				GW-601
	OLF			OLF				OLF
	08/14/91	10/23/91		03/28/91		06/25/91		01/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.2	<0.02	<0.02	0.78	0.058	4.4	0.05	0.056
Antimony	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.5	<0.05	<0.05	0.061	<0.05	<0.05	<0.05	<0.05
Barium	1.9	<0.001	<0.001	0.27	0.26	0.32	0.26	0.07
Beryllium	<0.003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.041	<0.004	<0.004	0.015	0.04	0.024	0.017	0.077
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.03	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.04	<0.004	<0.004	<0.004	<0.004	0.0089	<0.004	<0.004
Iron	<0.05	0.0065	<0.005	0.98	0.064	4.8	0.072	2.9
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.1	<0.01	0.014	<0.01	<0.01	0.017	<0.01	<0.01
Selenium	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.5	.	.	9.5	8.3	13	7.8	4.7
Silver	<0.06	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	2.3	0.0012	0.00067	0.087	0.088	0.097	0.094	1.6
Thorium	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	<0.001	<0.001	0.001	<0.001	<0.001
Vanadium	<0.05	<0.005	<0.005	<0.005	<0.005	0.0051	<0.005	<0.005
Zinc	0.032	0.0025	<0.002	0.011	0.0067	0.018	0.0054	0.007
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	225	.	174	.	162	.	195
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	1000	1.4	0.9	56	58	58	57	76
Chloride	.	23	.	0.7	.	<1	.	37
Fluoride	.	<0.1	.	<0.1	.	0.1	.	0.3
Magnesium	65	0.37	0.24	5	5	5.7	4.8	40
Manganese	<0.01	0.0012	0.001	0.19	0.15	0.33	0.14	0.089
Nitrate-N	.	717.54	.	<0.2	.	<0.2	.	25
Potassium	<6	<0.6	<0.6	0.77	0.77	1.8	0.83	2.3
Sodium	23	<0.02	<0.02	3.3	3.3	3.4	3.7	22
Sulfate	.	2	.	4.8	.	5	.	27

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-601							GW-602
	OLF							OLF
	01/25/91	05/04/91		08/30/91		10/31/91		01/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.05	<0.02	<0.02	0.024	<0.02	0.25	0.028	0.053
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.064	0.072	0.07	0.066	0.065	0.066	0.065	0.025
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.059	0.023	0.054	0.076	0.09	0.069	0.072	0.023
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	0.005	<0.004	<0.004
Iron	0.6	0.54	0.1	0.71	0.088	2.3	0.061	0.074
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	2.5	2.2	4.6	.	.	.	.	1.9
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	1.5	1.5	1.4	1.6	1.6	1.4	1.5	1.9
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.008	<0.002	<0.002	0.012	0.0063	0.046	0.019	0.0053
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	195	.	196	.	193	.	124
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	76	79	74	78	80	77	79	87
Chloride	.	46	.	44	.	47	.	3
Fluoride	.	0.27	.	0.2	.	0.3	.	0.8
Magnesium	39	39	38	37	38	38	39	40
Manganese	0.079	0.019	0.015	0.046	0.045	0.066	0.049	0.0012
Nitrate-N	.	37	.	170	.	30.42	.	<10
Potassium	2.2	2	2	1.5	1.6	2.1	1.8	15
Sodium	21	20	20	20	20	22	23	2.8
Sulfate	.	26	.	29	.	32	.	24

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-602							GW-613
	OLF							S3
	01/25/91	05/06/91		08/22/91		10/18/91		01/05/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.064	0.049	0.027	0.028	<0.02	<0.02	<0.02	0.15
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.021	0.028	0.027	0.031	0.03	0.024	0.023	0.066
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.033	<0.004	0.018	0.015	0.013	0.02	0.018	0.11
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.025	0.089	0.01	0.051	0.011	0.11	0.0054	0.11
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	1.7	3.5	3.5	.	.	.	.	6.7
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	1.7	2	2	2.1	2	2	2	0.05
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0027	0.0021	<0.002	<0.002	0.0047	0.016	0.0067	0.0079
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	132	.	130	.	152	.	88
Alkalinity-CO3	.	<1	.	4	.	<1	.	<1
Calcium	79	100	97	100	100	96	95	29
Chloride	.	2	.	2	.	2	.	1
Fluoride	.	0.75	.	0.8	.	0.8	.	<0.1
Magnesium	38	42	40	43	42	43	43	3
Manganese	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.012
Nitrate-N	.	<2	.	<0.2	.	0.26	.	<0.2
Potassium	15	6.5	6.7	9	9.6	6	6.4	<0.6
Sodium	2.9	1.5	1.5	1.9	1.9	1.6	1.5	3.6
Sulfate	.	288	.	255	.	315	.	5

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-613							GW-614
	S3							S3
	01/05/91	04/04/91		07/01/91		10/01/91		01/05/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.048	0.65	0.042	0.28	0.026	0.4	0.4	0.041
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.072	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.061	0.062	0.056	0.062	0.058	0.058	0.058	0.15
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.089	0.0086	0.0081	0.01	0.0098	<0.004	0.016	0.024
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.0059	0.26	0.013	0.11	0.0084	0.21	0.19	0.11
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.4	9.9	7.9	3.1	7.5	.	.	12
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.049	0.049	0.046	0.047	0.045	0.05	0.05	0.53
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0046	0.017	0.0083	0.0095	0.0044	0.074	0.011	0.0024
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	91	.	79	.	89	.	176
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	26	28	26	33	30	30	30	44
Chloride	.	1	.	1	.	1	.	0.8
Fluoride	.	<0.1	.	0.1	.	<0.1	.	<0.1
Magnesium	2.8	2.9	2.7	3	2.8	2.9	2.9	9.3
Manganese	0.0015	0.0056	<0.001	0.0058	0.0025	0.006	0.006	0.015
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	<0.6	<0.6	<0.6	0.74	0.65	<0.6	1.4
Sodium	3.7	3.6	3.4	4	3.9	3.6	3.8	9.2
Sulfate	.	6	.	6	.	5	.	10

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-614							GW-615
	S3							S3
	01/05/91	04/04/91		07/02/91		10/01/91		01/11/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.034	0.026	<0.02	<0.02	0.12	0.14	<2
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<5
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<5
Barium	0.14	0.14	0.14	0.15	0.14	0.14	0.15	360
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.03
Boron	0.031	0.021	0.022	<0.004	<0.004	0.017	0.3	1.4
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.14
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.3
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5
Copper	<0.004	<0.004	<0.004	<0.004	0.015	<0.004	<0.004	1.6
Iron	0.094	0.061	0.053	0.074	0.07	0.17	0.15	20
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0093
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<5
Silicon	11	9.6	9.6	8.8	8.5	.	.	8.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.6
Strontium	0.51	0.55	0.54	0.53	0.52	0.54	0.54	320
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<20
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.414
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5
Zinc	0.0013	0.0081	0.0069	0.0022	0.0094	0.0054	0.0066	<0.1
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	171	.	163	.	168	.	224
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	43	43	43	35	35	47	48	9800
Chloride	.	<1	.	<1	.	<1	.	71
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	9	9.1	9	9.2	9.2	9.1	9.2	2200
Manganese	0.014	0.014	0.012	0.013	0.013	0.013	0.013	21
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	10900
Potassium	1.3	1.6	1.5	1.4	1.5	1.8	1.3	110
Sodium	8.9	9.4	9.5	9.7	9.6	9.8	10	3000
Sulfate	.	14	.	13	.	11	.	<1000

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-615							GW-616
	S3							S3
	01/11/91	04/10/91		08/05/91		10/08/91		01/12/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	3.8	4.5	<2	<2	<2	<2	<2	0.067
Antimony	<5	<5	<5	<5	<5	<5	<5	<0.05
Arsenic	<5	<5	<5	<5	<5	<5	<5	<0.05
Barium	360	390	360	390	380	380	390	0.16
Beryllium	<0.03	<0.03	<0.03	<0.03	<0.03	<0.3	<0.3	<0.0003
Boron	1.6	<0.4	1.3	0.44	0.79	4.4	10	0.93
Cadmium (AAS)	0.14	0.13	0.13	0.035	0.033	0.0074	0.0074	<0.002
Cadmium	<0.3	<0.3	<0.3	<0.3	<0.3	<3	<3	<0.003
Chromium (AAS)	<0.01	0.17	0.16	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<1	<1	<1	<1	<1	<1	<1	<0.01
Cobalt	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.005
Copper	1	0.77	<0.4	<0.4	<0.4	<4	<4	<0.004
Iron	18	25	21	15	13	<5	15	3.1
Lead (AAS)	<0.004	1.3	1.3	0.0082	<0.004	0.0041	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00053
Molybdenum	<1	<1	<1	<1	<1	<1	<1	<0.01
Nickel	<1	<1	<1	<1	<1	<1	<1	<0.01
Selenium	<5	<5	<5	<5	<5	<5	<5	<0.05
Silicon	12	12	10	6.5	5.3	.	.	4.3
Silver	<0.6	<0.6	<0.6	<0.6	<0.6	<6	<6	<0.006
Strontium	320	360	330	370	360	340	350	0.32
Thorium	<20	<20	<20	<20	<20	<20	<20	<0.2
Uranium (Fluor)	0.373	0.35	0.28	0.38	0.41	0.38	0.4	<0.001
Vanadium	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.005
Zinc	<0.1	0.96	0.7	<0.2	<0.2	20	2.2	0.0033
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	157	.	197	.	208	.	189
Alkalinity-CO3	.	<1	.	<1	.	<1	.	14
Calcium	9700	9200	10000	10000	10000	10000	11000	4.9
Chloride	.	72	.	<100	.	47	.	8
Fluoride	.	<0.1	.	<0.1	.	0.1	.	0.8
Magnesium	2200	2300	2300	2500	2400	2500	2600	0.95
Manganese	21	20	20	20	20	24	25	0.047
Nitrate-N	.	2469	.	5712	.	7952	.	417
Potassium	120	120	110	160	160	<60	<60	3.6
Sodium	3000	2700	3000	3600	3700	3200	3100	460
Sulfate	.	<5000	.	<100	.	<10	.	12

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-616							GW-621
	S3							BG
	01/12/91	04/12/91		07/27/91		10/07/91		03/20/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.044	<0.02	0.15	<0.02	0.12	<0.02	3.3
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.22	0.2	0.21	0.18	0.22	0.13	0.042
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00043
Boron	0.86	0.78	0.8	0.77	0.77	1.5	0.86	1.2
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	0.0032	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.029
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.041
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.015	<0.004	<0.004	0.0078	<0.004	0.0052	<0.004	<0.004
Iron	0.018	4.5	0.039	4.5	<0.005	2.7	0.012	3.2
Lead (AAS)	<0.004	0.0051	<0.004	0.011	<0.004	0.004	<0.004	0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	0.045
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.6	3.7	3.1	3.3	3.2	.	.	10
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.31	0.41	0.42	0.44	0.43	0.5	0.37	0.078
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.008
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0041	<0.002	<0.002	0.012	0.0023	0.012	0.088	0.019
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	149	.	150	.	152	.	152
Alkalinity-CO3	.	<1	.	20	.	20	.	<1
Calcium	3.5	4.2	4.1	6.1	4.3	5	3.3	58
Chloride	.	10	.	9	.	9	.	5
Fluoride	.	0.5	.	0.8	.	0.7	.	<0.1
Magnesium	0.89	1.2	1.2	1.3	1.2	1.4	1.2	9.4
Manganese	0.0055	0.038	<0.001	0.047	0.0042	0.026	0.004	0.17
Nitrate-N	.	1089	.	240	.	222	.	6
Potassium	4.2	5	5	5.4	5	5.3	4.6	2.5
Sodium	480	510	500	540	540	560	490	4.4
Sulfate	.	11	.	14	.	11	.	6

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-621							GW-622
	BG							BG
	03/20/91	06/20/91		09/10/91		11/16/91		03/20/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.21	0.46	0.026	1	0.036	0.99	0.06	0.028
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.026	0.027	0.023	0.035	0.028	0.034	0.036	0.11
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	0.00033	<0.0003	<0.0003	<0.0003
Boron	1.6	<0.004	0.024	0.053	0.059	0.013	0.029	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.063	<0.01	0.095	<0.01	0.13	<0.01	<0.01
Chromium	0.011	0.026	<0.01	0.088	<0.01	0.052	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.005	0.0057	<0.004	0.0066	0.01	<0.004
Iron	0.081	0.65	0.0053	1.6	0.01	1.7	0.072	0.018
Lead (AAS)	0.0041	<0.004	<0.004	<0.004	<0.004	0.0049	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.038	<0.01	0.056	<0.01	0.098	0.011	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.6	5.1	4.6	.	.	.	.	4.5
Silver	<0.006	<0.006	<0.006	<0.006	0.008	<0.006	<0.006	<0.006
Strontium	0.076	0.071	0.071	0.096	0.093	0.072	0.12	0.099
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.007	0.006	0.004	0.018	0.048	0.006	0.005	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0048	0.002	0.0084	0.015	0.0089	0.21	0.03	0.02
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	145	.	160	.	147	.	149
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	57	35	35	64	64	59	89	59
Chloride	.	4	.	7	.	4.1	.	6
Fluoride	.	0.2	.	<0.1	.	0.1	.	<0.1
Magnesium	9.1	8.2	8.2	11	11	11	16	2.9
Manganese	0.0029	0.023	0.0017	0.058	<0.001	0.077	0.0033	0.31
Nitrate-N	.	4.12	.	9.58	.	7.18	.	<0.2
Potassium	1.9	1.9	2.2	2	1.9	1	1.5	1.4
Sodium	5.5	2.3	2.4	4.3	4.4	2.7	4.6	1.7
Sulfate	.	4	.	9	.	5.6	.	4

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-622							GW-623
	BG							BG
	03/20/91	06/20/91		09/25/91		12/21/91		03/24/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.021	0.026	0.04	<0.02	0.054	0.047	0.7
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.1	0.11	0.11	0.19	0.19	0.011	0.14	0.021
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	<0.004	0.06	0.069	0.021	0.016	0.038	0.064	0.33
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.0047	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.25
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0057	<0.004	<0.004	<0.004	0.012	0.0051	0.017
Iron	<0.005	0.02	0.014	0.3	0.098	0.69	0.034	1.5
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.074
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.012	0.045	0.04	<0.01	0.025	0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3	5.2	5.1	.	.	.	.	3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.089	0.096	0.096	0.13	0.13	0.031	0.11	0.092
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0073
Zinc	0.025	0.0099	0.0076	0.003	<0.002	0.035	0.021	0.17
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	160	.	166	.	172	.	372
Alkalinity-CO3	.	<1	.	<1	.	<1	.	266
Calcium	44	61	61	61	59	12	67	7.4
Chloride	.	6	.	8	.	7.2	.	45
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	6.5
Magnesium	2.5	3.1	3.1	3.7	3.6	3.5	4.2	0.43
Manganese	0.16	0.28	0.29	0.7	0.64	0.013	0.16	0.026
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.3	1.3	1.2	0.93	1	1.1	1.6	11
Sodium	1.5	1.9	1.9	1.8	4.2	2.5	6.9	400
Sulfate	.	4	.	5	.	5.8	.	65

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-623							GW-624
	BG							BG
	03/24/91	06/21/91		09/26/91		12/22/91		03/24/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.28	21	5.3	2	0.18	0.87	0.34	1
Antimony	0.051	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.0089	0.62	0.0032	0.028	0.0039	0.019	0.0073	0.12
Beryllium	0.0025	0.0012	0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.81	0.83	0.63	0.76	0.74	0.73	0.72	0.019
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.44	<0.01	0.026	<0.01	0.012	<0.01	0.027
Chromium	<0.01	0.072	<0.01	0.02	<0.01	0.016	<0.01	<0.01
Cobalt	<0.005	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0057	0.083	0.013	0.0055	<0.004	0.0049	0.0049	0.0044
Iron	0.094	17	0.11	1.6	0.026	0.59	0.035	0.68
Lead (AAS)	0.0082	0.56	<0.004	0.018	<0.004	<0.004	<0.004	0.0086
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00022	<0.0002	0.00027
Molybdenum	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.6	71	18	.	.	.	.	4.1
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.056	2.2	0.017	0.1	0.036	0.084	0.066	0.29
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.001	0.006	0.005	0.002	0.002	0.002	0.004
Vanadium	0.011	0.044	0.028	0.01	0.0058	0.0065	<0.005	<0.005
Zinc	0.013	1.2	0.0068	0.038	0.0049	0.024	0.0077	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	261	.	172	.	386	.	173
Alkalinity-CO3	.	342	.	320	.	264	.	<1
Calcium	1.6	480	1.1	8.7	0.98	4	1.1	77
Chloride	.	50	.	49	.	50.6	.	5
Fluoride	.	7.3	.	7.3	.	7.6	.	0.2
Magnesium	0.21	10	0.041	0.57	0.13	0.33	0.17	8.5
Manganese	0.0069	0.63	0.0023	0.021	<0.001	0.011	0.0017	0.16
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	11	14	18	8	8.3	6.8	7	3.7
Sodium	370	380	400	350	360	350	340	2.4
Sulfate	.	73	.	64	.	52.3	.	24

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-624			GW-626				
	BG			BG				
	03/24/91	06/21/91		03/23/91		06/20/91		09/26/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.022	0.17	0.029	0.039	0.031	0.034	0.043	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.062	0.1	0.098	0.12	0.11	0.11	0.11	0.13
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.0093	0.044	0.032	<0.004	0.016	0.014	0.035	0.0055
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.0036	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	0.014	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0061	0.0057	0.0052	0.0062	0.007	<0.004
Iron	0.0069	0.22	0.086	0.022	0.013	<0.005	<0.005	0.016
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.016	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.4	3.7	3.6	7.9	7.7	8.5	8.6	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.26	0.37	0.37	0.099	0.092	0.091	0.091	0.1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.005	0.006	0.006	<0.001	<0.001	0.001	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.018	0.011	0.0036	0.011	<0.002	<0.002	0.0087
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	216	.	94	.	91	.	96
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	60	90	89	31	29	32	31	34
Chloride	.	<5	.	3	.	2	.	3.2
Fluoride	.	0.3	.	<0.1	.	0.2	.	<0.1
Magnesium	7.1	11	11	2.3	2.2	2.2	2.2	2.5
Manganese	<0.001	0.082	0.069	0.0028	0.0028	0.0012	0.0011	0.0018
Nitrate-N	.	<1	.	<0.2	.	<0.2	.	<0.2
Potassium	3.9	5.9	5.9	1.6	1.7	1.6	1.7	1.8
Sodium	3.1	2.4	2.3	3.2	3.3	4	3.9	3.6
Sulfate	.	57	.	4	.	<0.2	.	2.8

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	BCK-04.55							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.096	0.028	0.067	0.03	0.058	0.062	0.46	0.057
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.05	0.065	<0.05	<0.05	<0.05	<0.05
Barium	0.052	0.049	0.055	0.054	0.068	0.067	0.046	0.041
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.06	0.11	0.066	0.069	0.29	0.28	0.077	0.07
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0046	<0.004	<0.004	0.021	<0.004	<0.004
Iron	0.11	0.02	0.071	<0.005	0.036	0.052	0.4	0.041
Lead (AAS)	<0.004	<0.004	0.0055	0.0071	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	1.3	4.2	3	3.3	3.2	3.4	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.067	0.066	0.075	0.076	0.093	0.093	0.056	0.053
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.024	0.021	0.023	0.022	0.04	0.04	0.056	0.066
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.017	0.018	0.0061	0.0034	0.04	0.03	0.0063	0.0071
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	103	.	112	.	151	.	82	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	33	33	34	34	51	50	30	28
Chloride	4	.	5	.	7	.	3	.
Fluoride	<0.1	.	0.1	.	0.2	.	<0.1	.
Magnesium	9.5	9	10	10	14	14	7.8	7.3
Manganese	0.018	0.013	0.025	0.0071	0.013	0.017	0.019	0.0073
Nitrate-N	3	.	5	.	6.6	.	1.93	.
Potassium	1.2	1.1	1.2	1.2	2.1	1.5	1.9	1.5
Sodium	3.5	3.6	3.1	3.2	4.6	4.6	3.3	3.2
Sulfate	10	.	10	.	12	.	11	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	BCK-00.63							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.14	0.062	0.085	0.02	0.055	0.038	0.34	0.048
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.048	0.046	0.054	0.053	0.066	0.065	0.044	0.04
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.076	0.076	0.059	0.057	0.31	0.29	0.06	0.062
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	0.049	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0066	0.0056	<0.004	0.0044	<0.004	<0.004	<0.004	<0.004
Iron	0.13	0.0098	0.16	<0.005	0.035	0.048	0.39	0.05
Lead (AAS)	<0.004	<0.004	0.0044	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.7	3.5	2.3	3	3.4	3.2	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.061	0.061	0.074	0.074	0.095	0.094	0.051	0.05
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.02	0.02	0.02	0.018	0.036	0.04	0.042	0.049
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	0.0092	0.017	<0.002	0.023	<0.002	0.0067	0.0032
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	95	.	108	.	147	.	77	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	30	30	30	32	52	51	27	26
Chloride	4	.	4	.	<10	.	3	.
Fluoride	<0.1	.	0.1	.	0.2	.	<0.1	.
Magnesium	8.1	8	9.2	9.2	14	14	6.8	6.6
Manganese	0.018	0.015	0.021	0.0094	0.0089	0.011	0.019	0.011
Nitrate-N	3	.	4	.	6.8	.	1.57	.
Potassium	1.2	1.1	1.2	1.3	2	1.8	1.5	1.3
Sodium	3.2	3.4	3.3	3.4	4.7	4.7	3	3.1
Sulfate	10	.	10	.	13	.	10	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-711		GW-712	
	EXP		EXP	
	12/10/91		12/09/91	
	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.
	.	.	.	.
Aluminum	0.024	<0.02	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05
Barium	0.0091	0.0085	0.099	0.098
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003
Boron	1	1	0.14	0.13
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005
Copper	0.0042	<0.004	<0.004	<0.004
Iron	15	14	5.4	4.9
Lead (AAS)	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006
Strontium	12	12	2.7	2.7
Thorium	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	<0.002	0.0066	0.003
	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.
	.	.	.	.
Alkalinity-HCO3	138	.	164	.
Alkalinity-CO3	<1	.	<1	.
Calcium	500	510	100	96
Chloride	1602	.	45	.
Fluoride	1.6	.	0.6	.
Magnesium	230	220	46	44
Manganese	0.13	0.13	0.065	0.061
Nitrate-N	<23	.	<2.2	.
Potassium	22	21	3.6	3.6
Sodium	950	920	39	39
Sulfate	2217	.	415	.

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-706						GW-710	
	EXP						EXP	
	06/20/91		09/13/91		11/19/91		12/05/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.049	0.045	0.027	<0.02	<0.02	<0.02	0.044	<0.04
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
Barium	0.078	0.075	0.23	0.23	0.26	0.25	0.007	0.0062
Beryllium	0.0026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	-0.0006	-0.0006
Boron	0.024	0.04	0.43	0.42	0.28	0.27	0.3	0.3
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006	<0.006
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
Copper	0.012	<0.004	<0.004	<0.004	<0.004	0.0049	<0.008	<0.008
Iron	0.37	0.09	12	12	1.7	1.5	14	12
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
Nickel	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.02	<0.02
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
Silicon	4.4	4.6	.	.	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.01	<0.01
Strontium	0.15	0.15	0.38	0.38	0.47	0.45	8.9	9.1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4
Uranium (Fluor)	0.009	0.007	0.11	0.11	0.13	0.17	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
Zinc	0.0063	0.0023	0.01	0.0088	0.0084	0.0082	0.026	<0.004
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	170	.	303	.	268	.	167	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	36	36	140	140	160	160	600	590
Chloride	13	.	52	.	45	.	577	.
Fluoride	0.1	.	0.2	.	0.2	.	1.6	.
Magnesium	19	19	30	30	31	31	220	230
Manganese	0.011	0.096	0.39	0.39	0.15	0.14	0.14	0.13
Nitrate-N	10	.	36.26	.	84.15	.	<2	.
Potassium	4.8	5	9.2	8.9	6.8	7.2	13	12
Sodium	5.9	6	27	27	25	24	350	350
Sulfate	14	.	37	.	34	.	46	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-704	GW-705						
	EXP	EXP						
	11/19/91	06/20/91		09/10/91		09/11/91	11/17/91	
	DIS	TOT	DIS	TOT	DIS	TOT	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	2.4	0.92	0.72	0.025	.	0.22	0.19
Antimony	<0.05	<0.5	<0.05	<0.05	<0.05	.	<0.05	<0.05
Arsenic	<0.05	<0.5	<0.05	<0.05	<0.05	.	<0.05	<0.05
Barium	0.056	0.066	0.008	0.02	0.0055	.	0.0078	0.0068
Beryllium	<0.0003	<0.003	<0.0003	<0.0003	<0.0003	.	<0.0003	<0.0003
Boron	0.046	2.9	2.5	2.2	2.2	.	2.3	2.4
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	.	<0.002	<0.002
Cadmium	<0.003	<0.03	<0.003	<0.003	<0.003	.	<0.003	<0.003
Chromium (AAS)	<0.01	0.046	<0.01	<0.01	<0.01	.	<0.01	<0.01
Chromium	<0.01	<0.1	<0.01	<0.01	<0.01	.	<0.01	<0.01
Cobalt	<0.005	<0.05	<0.005	0.005	<0.005	.	<0.005	<0.005
Copper	<0.004	0.7	0.054	0.042	<0.004	.	0.0087	0.012
Iron	0.48	230	14	16	0.033	.	3.3	2.6
Lead (AAS)	<0.004	0.25	<0.014	0.0082	<0.004	.	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	.	<0.0002	<0.0002
Molybdenum	<0.01	<0.1	0.018	<0.01	<0.01	.	<0.01	<0.01
Nickel	<0.01	0.19	<0.01	<0.01	<0.01	.	<0.01	<0.01
Selenium	<0.05	0.67	0.053	<0.05	<0.05	.	<0.05	<0.05
Silicon	.	5	2.9	.	.	.	.	.
Silver	<0.006	<0.06	<0.006	<0.006	<0.006	.	<0.006	<0.006
Strontium	0.3	0.54	0.19	0.35	0.31	.	0.29	0.25
Thorium	<0.2	<2	<0.2	<0.2	<0.2	.	<0.2	<0.2
Uranium (Fluor)	<0.001	0.007	0.001	<0.001	<0.001	.	<0.001	<0.001
Vanadium	<0.005	<0.05	<0.005	<0.005	<0.005	.	<0.005	<0.005
Zinc	0.0036	0.52	0.033	0.041	0.011	.	0.012	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	248	.	274	.	.	291	.
Alkalinity-CO3	.	42	.	38	.	.	24	.
Calcium	53	33	2.7	4.2	1.9	.	2.4	2.2
Chloride	.	54	.	76	.	.	145	.
Fluoride	.	3.5	.	3.2	.	.	3.2	.
Magnesium	26	3.1	0.76	1	0.76	.	0.73	0.62
Manganese	0.089	3.5	0.21	0.17	0.0093	.	0.037	0.03
Nitrate-N	.	0.4	.	0.36	.	.	<1.1	.
Potassium	1.7	<6	3.1	3.1	2.9	.	2.8	3
Sodium	8.2	230	230	230	240	.	230	220
Sulfate	.	88	.	97	.	.	230	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-703			GW-704				
	EXP			EXP				
	09/11/91	11/18/91		06/20/91		09/12/91		11/19/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.023	0.042	<0.02	0.042	<0.02	0.19	<0.02	0.1
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.04	0.051	0.045	0.062	0.06	0.054	0.052	0.063
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.033	0.022	0.053	0.013	0.016	0.05	0.056	0.045
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.014	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.017	6.5	0.016	0.98	0.088	2.9	0.26	8.1
Lead (AAS)	<0.004	<0.004	<0.004	0.015	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	3.6	3.8	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.14	0.18	0.17	0.3	0.3	0.28	0.28	0.3
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.01	0.0073	0.0052	<0.002	<0.002	0.012	0.0063	0.012
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	164	.	152	.	177	.	180
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	44	53	47	35	35	52	51	53
Chloride	.	7.4	.	14	.	13	.	16
Fluoride	.	0.3	.	0.3	.	0.2	.	0.2
Magnesium	21	26	25	24	26	24	24	26
Manganese	0.012	0.068	0.01	0.035	0.034	0.1	0.09	0.13
Nitrate-N	.	6.2	.	11	.	9.19	.	9.55
Potassium	1.8	3.3	3.2	1	1.2	1.5	1.3	1.4
Sodium	4.5	5	5.2	8.8	8.4	7.5	8.1	8.1
Sulfate	.	13.1	.	17	.	18	.	18

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-695					GW-703		
	EXP					EXP		
	06/18/91	09/13/91		11/22/91		06/18/91		09/11/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.03	1.3	0.031	0.1	<0.02	0.033	0.022	0.04
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.012	0.015	0.014	0.014	0.012	0.042	0.037	0.044
Beryllium	<0.0003	0.00038	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.062	0.048	0.043	0.034	0.03	0.055	0.098	0.081
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	0.013	0.013	0.014	0.047	0.033	<0.01	<0.01	<0.01
Chromium	0.017	0.021	0.02	0.043	0.028	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0056	0.0062	<0.004	<0.004	<0.004	0.0066	<0.004	0.012
Iron	0.0095	3.1	0.0076	0.37	<0.005	2.1	0.0077	2.5
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	0.099	0.072	0.053	0.044	0.036	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.9	.	.	.	.	4.1	3.9	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.059	0.076	0.058	0.06	0.055	0.16	0.17	0.15
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.004	0.008	0.006	0.009	0.008	0.001	0.001	0.001
Vanadium	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.01	0.012	0.0092	0.0065	0.0043	0.013	0.0057	0.0079
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	144	.	149	.	158	.	166
Alkalinity-CO3	.	2	.	20	.	<1	.	<1
Calcium	17	59	22	31	17	33	32	46
Chloride	.	6	.	6	.	7	.	7
Fluoride	.	0.2	.	0.3	.	0.3	.	0.3
Magnesium	12	15	14	12	12	20	20	22
Manganese	<0.001	0.028	0.0014	0.011	<0.001	0.027	0.023	0.032
Nitrate-N	.	1.57	.	1.66	.	6	.	5.73
Potassium	17	12	13	15	13	3.6	4.2	1.7
Sodium	52	49	37	45	37	4.9	5	4.7
Sulfate	.	37	.	33	.	12	.	12

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-685	GW-694						GW-695
Location	EXP	EXP						EXP
Date Sampled	12/12/91	06/19/91		09/13/91		11/22/91		06/18/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.042	0.037	0.027	0.035	0.074	<0.02	0.17
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.091	0.092	0.091	0.23	0.22	0.18	0.17	0.013
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.026	0.12	0.096	0.53	0.54	0.15	0.15	0.033
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.015
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.016
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0092	0.0061
Iron	0.0093	0.82	0.7	2.2	2.1	0.6	0.29	0.4
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.092
Nickel	<0.01	<0.01	<0.01	<0.01	0.013	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	3.7	4.3	.	.	.	.	5.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.17	0.17	0.38	0.38	0.29	0.26	0.065
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.047	0.049	0.23	0.23	0.139	0.148	0.004
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0066	0.0048	0.005	0.014	0.0089	0.031	0.014	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	206	.	288	.	207	.	152
Alkalinity-CO3	.	<1	.	<1	.	<1	.	6
Calcium	73	81	81	140	140	110	100	25
Chloride	.	11	.	47	.	27	.	6
Fluoride	.	0.3	.	0.4	.	0.5	.	0.2
Magnesium	21	18	18	26	26	22	20	12
Manganese	0.066	0.032	0.03	0.98	0.98	0.11	0.094	0.0076
Nitrate-N	.	12	.	36.66	.	40.23	.	1
Potassium	1.6	1.7	1.6	6.3	6.4	3.6	4.2	16
Sodium	15	8.3	6.9	30	29	15	15	52
Sulfate	.	23	.	36	.	33	.	63

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-684			GW-685				
	EXP			EXP				
	09/19/91	12/12/91		06/01/91		09/18/91		12/12/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.023	0.089	0.023	0.69	0.09	0.033	0.042	0.062
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.12	0.08	0.082	0.16	0.13	0.083	0.081	0.091
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.17	0.053	0.054	0.042	0.1	0.045	0.47	0.056
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0055	0.006	<0.004	0.0044	<0.004	<0.004
Iron	0.015	0.13	0.0057	3.3	0.025	1.8	0.68	0.29
Lead (AAS)	<0.004	<0.004	<0.004	0.014	<0.004	0.0077	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	5	5	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.2	0.095	0.098	0.12	0.13	0.094	0.094	0.099
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.077	0.032	0.025	0.001	0.001	0.001	0.002	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0048	0.0029	0.0041	0.029	0.0041	0.011	0.0077	0.0091
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	124	.	246	.	249	.	245
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	76	35	36	80	78	77	76	71
Chloride	.	11.5	.	30	.	29	.	31
Fluoride	.	0.2	.	<0.1	.	0.1	.	0.2
Magnesium	19	11	11	24	25	24	24	20
Manganese	0.01	0.0074	0.0052	0.46	0.15	0.11	0.096	0.086
Nitrate-N	.	6.32	.	2	.	1.95	.	2.74
Potassium	21	23	23	1.8	1.7	1.3	1.3	1.9
Sodium	13	5.5	5.6	16	17	15	15	15
Sulfate	.	13.9	.	18	.	18	.	20

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-683					GW-684		
	EXP					EXP		
	05/24/91	09/19/91		12/12/91		05/30/91		09/19/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.052	0.17	0.029	0.22	<0.02	0.23	0.037	0.12
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.092	0.14	0.14	0.083	0.082	0.092	0.092	0.12
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.045	0.66	0.15	0.063	0.056	1.4	0.08	0.16
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.005	0.0062	<0.004	0.005	0.0086	<0.004	0.0065
Iron	0.013	0.18	0.012	0.26	0.015	0.14	0.015	0.26
Lead (AAS)	<0.004	0.0064	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.7	.	.	.	.	4.7	4	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.12	0.16	0.17	0.079	0.079	0.14	0.14	0.2
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.043	0.088	0.092	0.032	0.032	0.038	0.036	0.081
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0047	0.012	0.0057	0.0077	0.0062	0.02	0.015	0.013
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	202	.	141	.	160	.	182
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	60	88	83	48	48	56	56	77
Chloride	.	21	.	6.2	.	12	.	28
Fluoride	.	0.2	.	0.2	.	0.2	.	0.2
Magnesium	15	23	22	14	14	13	13	19
Manganese	0.0016	0.0051	0.0036	0.011	0.0027	0.012	0.0096	0.017
Nitrate-N	.	19.64	.	6.4	.	9	.	18.89
Potassium	1.6	2.5	2.5	2	2.3	12	12	21
Sodium	5.3	13	11	4.4	4.5	7.5	5.4	13
Sulfate	.	21	.	15.2	.	17	.	20

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-655							GW-683
	BG							EXP
	03/09/91	06/15/91		09/05/91		11/05/91		05/24/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	1.1	0.27	13	1.8	2.4	0.026	0.026
Antimony	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.22	0.099	0.34	0.13	0.21	0.11	0.09
Beryllium	<0.0003	0.00047	<0.0003	<0.003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.0046	<0.004	0.0089	<0.04	<0.004	0.016	0.036	0.049
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.03	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.016	<0.01	0.029	<0.01	0.034	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.007	<0.004	<0.04	<0.004	0.013	<0.004	<0.004
Iron	0.21	2	0.37	10	1.4	4.6	0.28	0.021
Lead (AAS)	<0.004	0.013	<0.004	0.018	<0.004	0.0096	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01
Nickel	0.012	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05
Silicon	11	12	8.9	.	.	.	.	3.2
Silver	<0.006	<0.006	<0.006	<0.06	<0.006	<0.006	<0.006	<0.006
Strontium	0.023	0.028	0.019	0.038	0.02	0.022	0.017	0.12
Thorium	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.039
Vanadium	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.015	0.035	0.041	0.0069	0.027	0.012	0.0059
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	33	.	34	.	35	.	159
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	4.5	4.4	3.5	5.2	3.4	4.5	3.4	51
Chloride	.	<1	.	<1	.	<1	.	8
Fluoride	.	0.3	.	0.2	.	0.2	.	0.14
Magnesium	5.1	6.5	5.4	9.2	6.1	6.4	5	15
Manganese	0.05	0.069	0.053	0.097	0.049	0.075	0.042	0.0013
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.9	1.5	1.9	<6	2.3	2	1.9	1.4
Sodium	6.9	5.8	6.1	5.8	6.2	6	6.1	5.4
Sulfate	.	9	.	9	.	9.3	.	16

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-654							GW-655
	BG							BG
	03/09/91	06/15/91		09/14/91		11/23/91		03/09/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.19	<0.02	1.5	0.056	1.3	0.02	0.28
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.083	0.073	0.054	0.076	0.057	0.092	0.076	0.14
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.045	0.035	0.048	0.1	0.12	0.071	0.067	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0077	<0.004	<0.004	0.017	<0.004	<0.004
Iron	0.13	0.31	0.046	1.5	0.078	1.8	0.09	1
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	10	1.3	9.6	.	.	.	.	11
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.17	0.17	0.14	0.16	0.15	0.17	0.19	0.025
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.001	0.174	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0037	<0.002	<0.002	0.015	0.009	0.022	0.017	0.0027
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	97	.	125	.	115	.	37
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	13	13	11	13	13	14	16	4.7
Chloride	.	<1	.	<1	.	<1	.	<1
Fluoride	.	0.5	.	0.5	.	0.6	.	0.2
Magnesium	3.3	3.2	2.6	3.3	3	3.5	4	5.3
Manganese	0.16	0.18	0.13	0.16	0.14	0.18	0.19	0.056
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.5	1.3	1.1	1.4	1.6	2.1	1.5	1.9
Sodium	40	42	45	48	55	43	44	6.5
Sulfate	.	14	.	15	.	14.8	.	10

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-653							GW-654
	BG							BG
	03/23/91	06/21/91		09/15/91		12/11/91		03/09/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	1.5	3.9	0.74	<0.02	4.6	<0.02	0.16
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.017	0.078	0.069	0.038	0.023	0.1	0.024	0.091
Beryllium	<0.0003	0.00038	0.00034	<0.0003	<0.0003	0.00047	<0.0003	<0.0003
Boron	<0.004	0.052	0.043	0.03	0.014	0.03	0.015	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.019	0.011	<0.01	<0.01	0.011	<0.01	<0.01
Chromium	<0.01	0.02	0.013	<0.01	<0.01	0.011	<0.01	0.015
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.02	0.0064	0.0071	<0.004	0.0048	<0.004	0.0053
Iron	0.013	1.3	3.1	0.59	0.01	2.8	0.033	0.35
Lead (AAS)	<0.004	0.0069	0.0046	<0.004	<0.004	0.0049	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.044	0.02	<0.01	<0.01	<0.01	<0.01	0.011
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.9	10	14	.	.	.	.	2.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.014	0.03	0.025	0.022	0.018	0.049	0.021	0.17
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.002	0.002	<0.001	<0.001	0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	0.015	0.013	0.015	0.011	0.012	0.018	0.012
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	10	.	15	.	12	.	94
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	1.8	3.3	2.5	3.3	2.8	3.5	1.8	13
Chloride	.	<1	.	<1	.	1	.	<1
Fluoride	.	<0.1	.	<0.1	.	0.1	.	0.2
Magnesium	0.88	1.6	1.7	1.2	0.98	1.9	0.86	3.3
Manganese	0.0039	0.083	0.091	0.026	0.0079	0.079	0.0068	0.15
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	0.07
Potassium	<0.6	1	1.6	0.65	0.7	1.8	0.7	1.3
Sodium	2.4	3.4	3.2	2.8	2.7	4	2.8	31
Sulfate	.	2	.	2	.	2	.	13

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-652							GW-653
	BG							BG
	03/23/91	06/21/91		09/14/91		11/23/91		03/23/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.028	0.026	0.055	0.027	2.4	0.022	0.4
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.14	0.14	0.16	0.14	0.14	0.19	0.16	0.066
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.053	0.0042	0.0067	0.027	0.028	0.032	0.025	0.0093
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0099	<0.004	<0.004	0.0047	0.0063	0.0054	0.0041
Iron	0.018	0.35	0.047	0.066	0.012	3.9	0.011	0.38
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.011
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.7	4.8	5	.	.	.	.	8.7
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.17	0.19	0.2	0.17	0.17	0.21	0.21	0.032
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	0.0068	<0.005	<0.005
Zinc	0.0047	0.017	0.0045	0.0076	0.0088	0.016	0.0094	0.011
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	190	.	193	.	197	.	11
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	68	67	73	68	69	73	75	3.6
Chloride	.	4	.	4	.	5.3	.	<1
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	<0.1
Magnesium	8.3	7.2	7.5	7	7.3	8.6	8.5	1.6
Manganese	0.0018	0.0056	0.016	0.0024	0.0025	0.12	0.0017	0.13
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	2.6	2.9	2.6	2.6	2.2	3.4	3	0.68
Sodium	0.87	0.98	1	0.96	1	1.1	1.3	2.9
Sulfate	.	7	.	7	.	8.5	.	3

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-651							GW-652
	BG							BG
	03/23/91	06/21/91		09/15/91		11/23/91		03/23/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.027	0.026	0.062	0.15	<0.02	0.098	<0.02	0.079
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.077
Barium	0.057	0.046	0.066	0.042	0.043	0.048	0.048	0.14
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.088	0.0083	0.044	0.044	0.057	0.024	0.043	0.026
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.015	0.0049	<0.004	0.0059	<0.004	<0.004	0.0062	<0.004
Iron	0.038	0.062	0.078	0.26	0.0066	0.33	0.01	0.37
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6.1	0.99	5.9	.	.	.	.	4.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.34	0.31	0.34	0.22	0.26	0.27	0.3	0.16
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0078	0.0092	0.01	0.015	0.0066	0.015	0.0075	0.0057
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	.	115	.	184	.	160	.	185
Alkalinity-CO ₃	.	<1	.	<1	.	<1	.	<1
Calcium	61	63	66	44	53	57	62	65
Chloride	.	4	.	4	.	4.1	.	6
Fluoride	.	<0.1	.	<0.1	.	0.1	.	<0.1
Magnesium	11	11	11	7.3	9.5	9.8	11	7.5
Manganese	0.03	0.054	0.034	0.03	0.025	0.032	0.013	0.013
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	2.9	3	3	9	4.6	6.1	4.4	2.3
Sodium	1.8	1.7	1.7	2.6	2.1	2.4	2.4	0.76
Sulfate	.	9	.	10	.	9.4	.	9

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-649							GW-651
	OLF							BG
	01/06/91	04/06/91		07/02/91		10/02/91		03/23/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.036	<0.02	0.023	0.046	<0.02	0.29	<0.02	0.083
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.096	0.094	0.082	0.099	0.1	0.078	0.073	0.058
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.049	<0.004	0.016	<0.004	<0.004	0.031	0.011	0.066
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	0.0046	<0.004	<0.004	0.012
Iron	<0.004	0.015	0.022	0.042	<0.005	0.24	<0.005	0.22
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.022	0.011	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	7.8	7.3	6.4	6.6	6.4	.	.	6.6
Silver	<0.006	0.0063	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.076	0.077	0.067	0.076	0.078	0.061	0.059	0.34
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.004	0.0051	0.0049	0.0033	0.0056	0.007	0.0049	0.01
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	105	.	97	.	80	.	139
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	33	33	29	32	32	27	26	61
Chloride	.	2	.	2	.	2	.	5
Fluoride	.	<0.1	.	0.1	.	0.1	.	<0.1
Magnesium	3.1	3.2	2.9	3.2	3.3	2.7	2.7	11
Manganese	0.0029	0.0022	0.0045	0.0027	0.0018	0.012	0.002	0.044
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	<0.6	<0.6	<0.6	0.84	0.69	<0.6	<0.6	3.2
Sodium	3.4	2.5	2.4	3.2	3.1	3.4	3.3	1.8
Sulfate	.	7	.	6	.	6	.	10

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-648							GW-649
	RS							OLF
	01/15/91	05/01/91		07/03/91		10/03/91		01/06/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.022	0.099	0.027	<0.02	<0.02	<0.02	<0.02	0.078
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	0.068	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.099
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.023	0.016	0.0096	<0.004	<0.004	0.033	0.0049	0.044
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Coalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0087	0.0074	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	<0.004	0.098	<0.005	<0.005	<0.005	0.17	<0.005	0.047
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.7	5.6	5.6	5.6	5.6	.	.	3.1
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.05	0.042	0.042	0.041	0.041	0.049	0.049	0.076
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0023	0.0075	<0.002	<0.002	<0.002	0.0077	<0.002	0.017
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	174	.	176	.	183	.	102
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	37	35	34	32	32	38	37	33
Chloride	.	1	.	1	.	1	.	2
Fluoride	.	0.25	.	0.3	.	0.2	.	<0.1
Magnesium	21	20	20	21	21	22	22	3.3
Manganese	<0.001	0.0015	<0.001	<0.001	<0.001	0.005	<0.001	0.0043
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.5	0.92	0.92	0.87	0.92	0.83	0.78	<0.6
Sodium	1.2	0.72	0.71	0.66	0.66	0.77	0.78	3.2
Sulfate	.	<1	.	1	.	2	.	6

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-647							GW-648
	OLF							RS
	02/01/91	05/10/91		08/26/91		10/21/91		01/15/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.28	<0.02	<0.02	<0.02	0.059	<0.02	0.44
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.045	0.039	0.028	0.036	0.047	0.03	0.026	0.13
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.024	0.0059	<0.004	0.02	0.017	0.031	0.025	0.0097
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	0.017	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0067	0.012	<0.004	0.015	<0.004	<0.004	<0.004
Iron	<0.004	0.74	<0.005	0.01	<0.005	0.28	0.062	0.41
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.1	4.4	1.9	.	.	.	.	6.2
Silver	0.0075	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	1.3	1.2	1.2	1.4	1.3	1.3	1.2	0.05
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.001	<0.001	<0.001	<0.001	0.002	0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0028	0.011	0.13	0.0022	<0.002	0.0071	0.0041	0.0047
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	168	.	169	.	165	.	189
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	65	64	64	72	66	62	58	38
Chloride	.	1.2	.	1	.	1	.	1
Fluoride	.	267	.	0.4	.	0.4	.	0.4
Magnesium	37	30	32	35	35	35	34	21
Manganese	0.0056	0.0095	0.0024	0.003	0.0069	0.0039	0.0048	0.018
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	4.6	3.5	3.9	3.7	4	3.4	3.7	1.5
Sodium	1.6	2.4	2.4	2.3	2.5	2.2	2.2	1.3
Sulfate	.	157	.	118	.	129	.	2

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-646							GW-647
	OLF							OLF
	01/31/91	05/10/91		08/22/91		10/21/91		02/01/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.13	0.022	<0.02	0.03	<0.02	<0.02	0.036
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.02	0.029	0.027	0.034	0.029	0.029	0.029	0.026
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.12	0.062	0.073	0.12	0.1	0.12	0.1	0.023
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.14	0.61	0.32	1.1	0.75	0.34	0.28	0.18
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.031	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.3	4.6	4.6	.	.	.	.	3.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	3.4	2.8	2.9	4.1	3.4	3.5	3.5	1.3
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	<0.001	<0.001	0.002	0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.001	0.0067	<0.002	<0.002	0.0045	0.0079	<0.002	0.0032
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	224	.	217	.	207	.	173
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	140	120	120	170	140	140	130	69
Chloride	.	2	.	2	.	2	.	1
Fluoride	.	1.09	.	1.4	.	1.5	.	0.5
Magnesium	69	57	57	79	69	75	74	35
Manganese	0.0011	0.0031	0.0027	0.024	0.0097	0.0026	0.0022	0.0042
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	15	11	11	17	13	13	14	4.3
Sodium	16	12	13	18	15	14	14	2.6
Sulfate	.	441	.	378	.	347	.	124

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-645							GW-646
	OLF							OLF
	02/12/91	05/17/91		08/22/91		10/18/91		01/31/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.044	0.34	0.032	0.12	<0.02	0.38	<0.02	0.022
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.088	0.1	0.083	0.14	0.22	0.078	0.069	0.025
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.025	0.013	0.03	0.014	0.018	0.028	0.018	0.12
Cadmium (AAS)	<0.002	<0.0022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.044	0.021	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.01	0.0059	<0.004	<0.004	<0.004	0.0082	<0.004
Iron	0.053	0.68	0.011	0.22	<0.005	0.71	<0.005	0.12
Lead (AAS)	<0.004	0.0054	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.041	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.9	5.5	5.8	.	.	.	.	4.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.3	0.26	0.25	0.34	0.37	0.29	0.25	3.5
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001
Vanadium	<0.005	0.0077	<0.005	<0.005	<0.005	0.0057	<0.005	<0.005
Zinc	<0.002	0.0043	0.0037	0.034	0.0094	0.014	0.019	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	203	.	216	.	225	.	202
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	40	44	40	51	47	44	40	140
Chloride	.	1	.	1	.	1	.	2
Fluoride	.	0.37	.	0.5	.	0.5	.	1.5
Magnesium	28	27	26	32	30	31	29	67
Manganese	0.0027	0.023	0.0048	0.0078	0.026	0.009	0.0028	<0.001
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.7	1.4	1.2	1.6	2.	2.2	1.5	14
Sodium	0.83	1.1	0.8	0.88	0.8	0.8	1.1	17
Sulfate	.	16	.	18	.	23	.	474

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-644							GW-645
	OLF							OLF
	01/31/91	05/10/91		08/20/91		10/17/91		02/12/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.43	<0.02	0.33	0.36	38	<0.02	0.097
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.06	0.054	0.053	0.083	0.071	0.53	0.075	0.087
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0036	<0.0003	<0.0003
Boron	<0.004	0.014	<0.004	0.0052	0.015	0.022	0.021	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.44		<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	0.038	<0.005	<0.005
Copper	<0.004	<0.004	0.005	<0.004	<0.004	0.14	<0.004	0.0051
Iron	<0.005	0.57	0.0088	0.36	0.31	74	<0.005	0.18
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.16	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	0.098	<0.01	<0.01
Selenium	0.068	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.2	9.2	8.7	.	.	.	.	6
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.047	0.047	0.049	0.084	0.074	0.17	0.084	0.29
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	0.072	<0.005	<0.005
Zinc	0.0033	0.011	0.021	0.018	0.016	0.23	0.013	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	68	.	84	.	107	.	200
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	21	22	23	47	39	71	32	38
Chloride	.	2	.	2	.	2	.	1
Fluoride	.	<0.1	.	0.1	.	<0.1	.	0.4
Magnesium	1.8	1.9	1.9	2.9	2.5	11	2	27
Manganese	0.0079	0.042	0.02	0.021	0.012	1.1	0.013	0.0035
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.65	0.66	0.74	0.8	0.82	7.2	<0.6	1.7
Sodium	3.2	3.8	4.1	3.3	3.3	3.7	3.5	0.64
Sulfate	.	<1	.	<1	.	1	.	14

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-643							GW-644
	BG							OLF
	02/27/91	06/08/91		09/04/91		11/03/91		01/31/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.11	2.2	<0.02	0.84	0.023	0.3	0.031	0.088
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.051	0.071	0.052	0.062	0.043	0.069	0.053	0.079
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.014	0.035	0.021	0.035	0.017	0.026	0.017	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0061	<0.004	<0.004	<0.004	<0.004	0.0049	<0.004
Iron	0.17	2.4	<0.005	1.1	0.13	0.35	0.027	0.17
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.018
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	8.1	14	3	.	.	.	.	4.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.024	0.026	0.026	0.018	0.018	0.019	0.019	0.066
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.035	0.015	0.016	0.028	0.031	0.038	0.035	0.0055
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	15	.	35	.	20	.	79
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	7	7.2	8	4.6	4.8	4.9	4.7	28
Chloride	.	2	.	2	.	2	.	2
Fluoride	.	<0.1	.	0.2	.	<0.1	.	<0.1
Magnesium	2.4	2.7	2.6	1.7	1.6	1.6	1.6	2.4
Manganese	0.093	0.086	0.064	0.048	0.039	0.042	0.033	0.019
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	2.1	3	2.4	3	2.8	1.6	1.7	0.77
Sodium	7.5	6.4	7.2	7.1	7.4	7.6	7.8	3.5
Sulfate	.	21	.	23	.	19	.	<1

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-642							GW-643
	BG							BG
	03/09/91	06/15/91		09/04/91		11/03/91		02/27/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.48	<0.02	0.83	<0.02	0.31	<0.02	2.1
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.14	0.12	0.13	0.1	0.11	0.092	0.31
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.012	<0.004	0.03	0.032	0.021	0.03	0.022	0.016
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0076
Chromium (AAS)	<0.01	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	0.042
Chromium	<0.01	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.013
Iron	4.2	2.9	2.7	5.5	3.5	3.3	2	1.7
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.012
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.034	0.019	0.026	0.018	0.02	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	13	14	14	.	.	.	.	11
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.027	0.026	0.024	0.027	0.027	0.02	0.02	0.038
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.034	0.01	0.0062	0.016	0.0093	0.015	0.0097	0.052
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	53	.	54	.	50	.	18
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	9.1	8	7.6	8.8	8.8	7	6.8	10
Chloride	.	1	.	1	.	1	.	<1
Fluoride	.	0.4	.	0.4	.	0.3	.	<0.1
Magnesium	7.3	7.2	7.5	7.4	7.1	6.6	6.7	3.2
Manganese	1.9	1.5	1.3	1.5	1.4	1.3	1.2	0.15
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	1.8	1.7	1.7	2	1.8	1.7	1.8	2.5
Sodium	8	6.8	7	7.5	7.6	7.8	8.1	7.2
Sulfate	.	13	.	11	.	12	.	20

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-641							GW-642
	BG							BG
	03/25/91	06/22/91		09/09/91		11/15/91		03/09/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.12	0.021	0.4	<0.02	0.43	0.042	0.51
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.055
Barium	0.029	0.056	0.055	0.037	0.036	0.052	0.037	0.14
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00036	<0.0003	<0.0003
Boron	0.005	0.012	0.02	0.012	0.017	0.0079	0.0046	0.0074
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.004
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.018
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.047
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.005	0.0081	0.0085	<0.004	<0.004	0.0078	0.007	0.0045
Iron	0.0064	0.19	0.03	0.54	0.0054	0.69	0.011	3.6
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	0.0078	<0.004	0.0041
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.013	0.059	<0.01	<0.01	<0.01	<0.01	0.16
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6.1	6.2	6.2	.	.	.	.	3.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.014	0.026	0.026	0.019	0.026	0.015	0.014	0.025
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.059	0.055	0.056	0.019	0.044	0.013	0.031	0.019
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	10	.	15	.	20	.	56
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	2.4	2.7	3.1	5.8	7.4	5	5	7.5
Chloride	.	<1	.	<1	.	<1	.	1
Fluoride	.	<0.1	.	<0.1	.	0.1	.	0.3
Magnesium	0.65	0.73	0.76	0.8	0.71	0.88	0.76	8
Manganese	0.049	0.056	0.035	0.035	0.0065	0.073	0.0039	1.2
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.71	0.61	<0.6	0.62	66	<0.6	<0.6	2
Sodium	2.4	1.8	1.9	2.7	3.6	2.3	2.4	7.5
Sulfate	.	<1	.	<1	.	<1	.	14

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-640							GW-641
	BG							BG
	03/25/91	06/22/91		09/09/91		11/15/91		03/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.12	<0.02	0.028	<0.02	<0.02	<0.02	0.067
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	0.067	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.064	0.07	0.068	0.071	0.067	0.066	0.064	0.032
Beryllium	<0.0003	<0.0003	<0.0003	0.00034	0.00039	<0.0003	<0.0003	<0.0003
Boron	0.031	0.05	0.016	0.029	0.018	0.0068	0.0072	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.016
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.008	<0.004	<0.004	<0.004	<0.004	0.0043
Iron	<0.005	0.03	0.0098	0.042	<0.005	0.045	0.0079	0.13
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	0.00022	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.026	0.019	<0.01	<0.01	<0.01	<0.01	0.016
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.9	7.4	7.4	.	.	.	.	5.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.042	0.047	0.047	0.048	0.049	0.047	0.046	0.014
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.019	0.014	0.017	0.0078	0.0069	0.049	0.007	0.021
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	37	.	45	.	46	.	13
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	11	13	13	15	15	16	16	2.8
Chloride	.	<1	.	<1	.	1	.	<1
Fluoride	.	<0.1	.	<0.1	.	0.1	.	<0.1
Magnesium	1.2	1.4	1.4	1.5	1.5	1.5	1.5	0.69
Manganese	0.018	0.0074	0.0074	0.0055	0.0048	0.0053	0.0037	0.05
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.9	0.67	0.97	0.88	0.7	0.8	0.61	0.63
Sodium	3.6	3	3.7	3.5	3.6	3.4	3.6	2.3
Sulfate	.	3	.	3	.	2	.	2

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-639							GW-640
	BG							BG
	03/25/91	06/22/91		09/09/91		11/16/91		03/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.04	0.31	0.039	1.7	0.02	0.57	<0.02	0.041
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.053
Barium	0.047	0.064	0.05	0.062	0.053	0.066	0.053	0.065
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.52	0.61	0.62	0.57	0.58	0.46	0.56	<0.004
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.004	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.019	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	0.016
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.013	0.0047	0.0043	0.0044	0.0044	0.009	<0.004
Iron	0.13	1.4	0.037	1.1	0.021	2.6	0.029	0.12
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	2.7	4.3	3.2	.	.	.	.	6.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.086	0.1	0.09	0.089	0.086	0.088	0.082	0.047
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0087	0.007	0.0088	0.0034	0.0094	0.0059	0.0084
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	334	.	335	.	336	.	39
Alkalinity-CO3	.	68	.	76	.	72	.	<1
Calcium	0.8	1.4	0.93	0.88	0.82	1.4	0.8	13
Chloride	.	9	.	10	.	9.4	.	<1
Fluoride	.	6	.	2.4	.	3	.	<0.1
Magnesium	0.27	0.36	0.26	0.6	0.23	0.4	0.22	1.4
Manganese	0.0036	0.017	0.003	0.0054	0.0016	0.025	<0.001	0.012
Nitrate-N	.	<1	.	<0.2	.	<1.13	.	<0.2
Potassium	1.7	1.6	1.5	2.2	1.7	1.6	1	0.88
Sodium	190	200	210	230	240	210	210	3.6
Sulfate	.	28	.	30	.	27.7	.	4

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-638							GW-639
	OLF							BG
	02/12/91	05/17/91		08/20/91		10/17/91		03/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.067	0.52	0.064	1.6	0.54	1.5	<0.02	0.19
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.049	0.19	0.21	0.14	0.12	0.1	0.081	0.069
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.022	0.048	0.03	0.029	0.025	0.034	0.032	0.53
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
Cadmium	<0.003	<0.003	0.0037	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	0.015	<0.01	0.013	<0.01	0.024
Chromium	<0.01	0.011	0.011	<0.01	<0.01	<0.01	<0.01	0.019
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.006	0.0063	0.011	0.0063	0.0089	0.0053	0.0056
Iron	0.016	0.36	0.016	2.4	0.83	2.7	<0.005	2.1
Lead (AAS)	<0.004	<0.006	<0.004	0.0045	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.019	0.014	<0.01	0.012	<0.01	<0.01	<0.01	0.018
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.6	4.7	4.4	.	.	.	.	3.1
Silver	<0.006	<0.006	<0.006	<0.006	0.3	<0.006	<0.006	<0.006
Strontium	0.31	0.37	0.38	0.34	0.35	0.3	0.3	0.1
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.007	0.007	0.005	0.008	0.006	0.009	0.008	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.002	0.0046	0.005	0.015	0.011	0.011	0.0057	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	221	.	223	.	203	.	341
Alkalinity-CO3	.	<1	.	<1	.	<1	.	102
Calcium	93	83	82	110	120	92	90	1.3
Chloride	.	2	.	2	.	1	.	11
Fluoride	.	0.3	.	0.4	.	0.4	.	1.6
Magnesium	13	13	13	16	15	15	14	0.37
Manganese	0.0047	0.029	0.032	0.047	0.018	0.032	0.0079	0.027
Nitrate-N	.	0.77	.	0.58	.	1.01	.	<0.2
Potassium	4.2	7.1	5.7	7.6	6.5	6	5.5	1.8
Sodium	18	10	11	6	11	5.2	5.3	200
Sulfate	.	70	.	94	.	162	.	31

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-637							GW-638
	OLF							OLF
	02/12/91	05/17/91		08/20/91		10/17/91		02/12/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.044	0.21	0.057	0.07	<0.02	0.1	<0.02	0.71
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.071
Barium	0.14	0.17	0.21	0.12	0.089	0.15	0.13	0.076
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.013	0.03	0.014	0.018	0.028	0.021	0.028	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.019
Chromium	<0.01	0.024	0.015	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0063	<0.004	<0.004	0.0063	<0.004	<0.004	0.023
Iron	0.0052	0.14	0.013	0.064	0.022	0.17	<0.005	1.2
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0074
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.1	4.3	3.9	.	.	.	.	5.2
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.19	0.2	0.21	0.17	0.16	0.18	0.17	0.33
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.001	<0.001	0.001	0.001	0.001	0.001	0.008
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.0034	0.0067	0.0068	0.0068	0.0073	0.0037	0.028
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	204	.	197	.	205	.	215
Alkalinity-CO3	.	<1	.	<1	.	<1	.	<1
Calcium	74	71	73	68	71	74	73	86
Chloride	.	3	.	3	.	3	.	2
Fluoride	.	<0.1	.	<0.1	.	<0.1	.	0.4
Magnesium	5.7	5.5	5.1	5.1	4.7	5.4	4.9	13
Manganese	0.023	0.023	0.032	0.02	0.012	0.021	0.018	0.023
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	0.3
Potassium	1.5	1.5	1.2	1.3	0.8	1.6	1.4	8.4
Sodium	2.7	2.8	2.6	2.1	2.1	2.4	2.3	11
Sulfate	.	8	.	7	.	8	.	74

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-636							GW-637
	OLF							OLF
	02/11/91	05/16/91		08/21/91		10/18/91		02/12/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	0.035	<0.02	<0.02	<0.02	<0.02	0.17
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.22	0.23	0.22	0.24	0.24	0.23	0.23	0.16
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.38	0.43	0.41	0.38	0.39	0.36	0.35	0.0094
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	0.0031	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.079	0.6	0.078	0.24	0.065	0.34	0.055	0.17
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.4	5.5	5.4	.	.	.	.	5.6
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.57	0.59	0.57	0.61	0.61	0.57	0.57	0.2
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.013	0.0084	0.0046	0.0043	0.0051	0.0092	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	156	.	161	.	169	.	198
Alkalinity-CO3	.	16	.	2	.	2	.	<1
Calcium	7.3	7.8	7.6	8.2	8.2	7.9	7.9	74
Chloride	.	5	.	6	.	7	.	3
Fluoride	.	0.11	.	0.1	.	0.1	.	<0.1
Magnesium	2.4	2.4	2.3	2.8	2.8	2.4	2.5	5.9
Manganese	0.0089	0.014	0.0095	0.01	0.0089	0.011	0.0087	0.027
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	4.8	3.7	4.1	5.3	5.8	4.9	5.1	1.6
Sodium	65	60	63	70	70	67	66	2.4
Sulfate	.	5	.	6	.	6	.	8

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-630							GW-636
	OLF							OLF
	03/26/91	06/25/91		08/09/91		10/14/91		02/11/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.047	0.048	0.026	<0.02	0.31	0.053	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.35	0.42	0.41	0.41	0.42	0.44	0.43	0.23
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.047	0.022	0.014	<0.004	0.0072	0.015	0.028	0.37
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0048	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.011	0.2	0.094	0.089	0.045	0.45	0.1	0.35
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	8.2	8.9	8.9	6	8.3	.	.	5.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.12	0.12	0.11	0.12	0.12	0.12	0.59
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0066	0.0085	0.0069	<0.002	<0.002	0.0059	0.01	0.0026
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	177	.	187	.	192	.	166
Alkalinity-CO3	.	<1	.	<1	.	<1	.	4
Calcium	54	63	62	66	66	69	69	7.5
Chloride	.	2	.	2	.	2	.	5
Fluoride	.	0.1	.	<0.1	.	0.1	.	0.2
Magnesium	5.4	5.8	5.7	6.6	6.4	6.5	6.5	2.5
Manganese	0.049	0.15	0.13	0.14	0.14	0.16	0.15	0.011
Nitrate-N	.	<0.2	.	<0.2	.	<0.2	.	<0.2
Potassium	0.87	0.99	1	0.89	0.62	0.88	0.72	5.1
Sodium	4.2	4.8	4.9	4.3	4.3	4.1	4.1	68
Sulfate	.	8	.	7.8	.	8	.	5

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-626			GW-627				
	BG			BG				
	09/26/91	12/22/91		03/24/91		06/22/91		09/25/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	0.035	<0.02	<0.02	0.038	0.09	0.025	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.14	0.14	0.037	0.037	0.038	0.037	0.03
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.033	0.024	0.022	0.48	0.51	0.6	0.5	0.46
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.004	<0.004	0.0074	0.027	0.021	<0.004
Iron	0.0072	0.022	0.032	0.26	0.058	0.16	0.048	0.14
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	3.1	3.6	3.7	3.7	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.1	0.1	0.074	0.076	0.075	0.076	0.066
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.2	0.009	0.009	<0.002	0.0063	0.02	0.01	<0.002
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	101	.	476	.	462	.	459
Alkalinity-CO3	.	<1	.	80	.	58	.	80
Calcium	34	41	40	0.89	0.91	0.97	0.94	0.86
Chloride	.	9.2	.	20	.	17	.	18
Fluoride	.	0.2	.	4.7	.	5.8	.	5.6
Magnesium	2.5	2.9	2.8	0.19	0.19	0.21	0.2	0.19
Manganese	0.0012	0.0013	0.0019	0.0068	0.0064	0.0074	0.0074	0.0099
Nitrate-N	.	<0.2	.	<0.2	.	<2	.	<0.2
Potassium	1.5	1.5	1.5	1.5	1.6	0.97	1.2	1.1
Sodium	3.7	4	3.8	290	260	260	260	270
Sulfate	.	2.7	.	36	.	37	.	31.8

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-627			GW-629				GW-630
	BG			BG				OLF
	09/25/91	12/18/91		03/26/91		06/22/91		03/26/91
	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	<0.02	<0.02	<0.02	0.048	0.022	0.027	0.031	0.059
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.03	0.042	0.04	0.036	0.033	0.031	0.03	0.36
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.46	0.49	0.48	0.52	0.51	0.13	0.54	0.014
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0045	<0.004	<0.004	<0.004	<0.004	0.0051
Iron	0.047	0.13	0.057	0.91	0.036	0.36	0.062	0.086
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	3.9	3.6	0.27	3.9	8.8
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.066	0.071	0.069	0.052	0.051	0.05	0.05	0.11
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	0.012	0.0089	0.0089	0.0049	<0.002	0.002	0.0048
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	.	464	.	400	.	371	.	182
Alkalinity-CO3	.	70	.	82	.	72	.	<1
Calcium	0.87	1	0.84	0.88	0.81	0.76	0.71	56
Chloride	.	19	.	12.2	.	9	.	1.5
Fluoride	.	14	.	2.9	.	3.3	.	<0.1
Magnesium	0.19	0.25	0.18	0.16	0.14	0.15	0.14	5.5
Manganese	0.0093	0.0074	0.0058	0.014	0.0049	0.011	0.0074	0.092
Nitrate-N	.	<2.26	.	<0.2	.	<1	.	<0.2
Potassium	1.3	1.7	0.97	1.1	1.1	0.82	1.4	1
Sodium	270	300	280	230	220	240	240	4.2
Sulfate	.	28	.	24.5	.	20	.	9.2

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location . Date Sampled	BCK-09.40							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.14	0.047	0.086	0.12	0.049	0.094	0.23	0.046
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	<0.05	<0.05
Barium	0.088	0.087	0.093	0.29	0.11	0.12	0.08	0.073
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.37	0.36	0.59	0.12	1.4	1.4	0.18	0.17
Cadmium (AAS)	<0.002	<0.002	<0.002	0.0051	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.0048	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.01	0.012	<0.01	0.026	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0064	<0.004	0.0067	<0.004	<0.004	<0.004	<0.004
Iron	0.16	0.017	0.11	<0.005	0.059	0.11	0.29	0.04
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	0.00021	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.026	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.7	3.6	3.3	2.9	3.6	3.8	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.16	0.16	0.17	0.51	0.22	0.22	0.14	0.13
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.098	0.104	0.081	0.151	0.1	0.1	0.12	0.24
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.01	0.0092	0.019	0.0088	0.0029	0.013	0.01	0.0094
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	120	.	125	.	160	.	108	.
Alkalinity-CO3	<1	.	<1	.	4	.	<1	.
Calcium	58	59	62	180	86	86	51	48
Chloride	11	.	14	.	<100	.	7	.
Fluoride	0.4	.	0.3	.	0.4	.	0.2	.
Magnesium	10	10	11	20	15	15	9.7	9.3
Manganese	0.15	0.15	0.1	1.1	0.025	0.039	0.058	0.029
Nitrate-N	13	.	15	.	36	.	7.47	.
Potassium	1.9	1.8	2.1	3.4	2.9	3.1	2.2	2.3
Sodium	7	7.1	8.1	30	12	13	6.8	6.3
Sulfate	23	.	20	.	27	.	29	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location . Date Sampled	BCK-11.97							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.25	0.28	0.14	0.048	0.14	0.13	0.17	0.063
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	0.056	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.34	0.34	0.3	0.091	0.27	0.26	0.25	0.24
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.048	0.047	0.081	0.57	0.12	0.1	0.056	0.053
Cadmium (AAS)	0.0086	0.0087	0.005	<0.002	<0.002	0.0039	0.0061	0.0056
Cadmium	0.0083	0.0071	0.0036	<0.003	0.0053	<0.003	0.0057	0.0047
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.011	0.01	<0.01	0.061	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0062	0.008	0.0043	0.02	0.012	<0.004	<0.004	<0.004
Iron	0.043	0.051	0.013	0.015	0.043	0.043	0.087	0.041
Lead (AAS)	<0.004	<0.004	<0.004	0.0099	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.034	0.041	0.024	0.033	0.024	0.016	0.018	0.016
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.4	3.3	3.1	3.2	2.9	2.8	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.5	0.51	0.51	0.17	0.39	0.39	0.37	0.35
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.166	0.185	0.147	0.083	0.15	0.15	0.13	0.15
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0079	0.018	<0.002	0.0067	0.036	0.015	0.0082	0.015
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	211	.	197	.	144	.	177	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	170	170	180	62	140	130	140	140
Chloride	38	.	43	.	26	.	31	.
Fluoride	0.9	.	0.6	.	0.8	.	0.6	.
Magnesium	21	21	20	11	17	16	17	17
Manganese	1.7	1.8	1.1	0.087	0.58	0.57	1	0.94
Nitrate-N	74	.	73	.	66	.	57	.
Potassium	3.5	3.4	3.5	2	5.7	5.3	3.7	3.2
Sodium	27	26	31	8	29	30	29	27
Sulfate	51	.	51	.	43	.	49	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	NT-13							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
MTALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.38	0.059	0.42	0.027	5.8	3.1	0.87	0.056
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.038	0.039	0.044	0.034	0.16	0.17	0.044	0.033
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	0.00043	<0.0003	<0.0003	<0.0003
Boron	0.046	0.013	0.062	<0.004	0.022	0.041	0.031	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.017	0.014	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	0.0043	<0.004	<0.004	<0.004
Iron	1	1	1.8	0.12	30	24	0.91	0.1
Lead (AAS)	<0.004	<0.004	0.007	<0.004	0.0084	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	0.00021
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	0.066	<0.05	<0.05	<0.05
Silicon	4.7	5	4.4	4.3	13	9.4	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.042	0.042	0.055	0.054	0.099	0.099	0.03	0.028
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	<0.005
Zinc	0.007	0.017	0.0082	0.0051	0.034	0.071	0.016	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	43	.	59	.	116	.	23	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	15	15	16	17	35	34	11	11
Chloride	1	.	1	.	<1	.	<1	.
Fluoride	<0.1	.	<0.1	.	0.1	.	<0.1	.
Magnesium	2.9	2.8	3.5	3.5	6.6	6.1	2.3	2
Manganese	0.67	0.69	0.94	0.61	5.7	6.6	0.17	0.11
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	1.2	1.2	1.4	1.3	3.1	2.1	2	1.6
Sodium	3	3.1	3.4	3.1	4.5	4.6	2.6	2.6
Sulfate	11	.	9	.	4	.	15	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	SS-1							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.15	0.062	0.86	0.042	0.04	0.04	0.058	0.026
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.095	0.095	0.094	0.086	0.11	0.11	0.097	0.096
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.06	0.067	0.032	<0.004	0.04	0.048	0.068	0.068
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.0021	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.011	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	0.014	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0086	0.0084	0.0073	0.0046	<0.004	<0.004	<0.004	<0.004
Iron	0.15	0.017	0.89	<0.005	0.03	0.0052	0.065	<0.005
Lead (AAS)	<0.004	<0.004	0.026	<0.004	<0.0042	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	5.8	6.4	5.9	4.9	5.7	5.6	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.53	0.53	0.5	0.49	0.53	0.53	0.48	0.47
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.029	0.033	0.029	0.031	0.04	0.04	0.047	0.043
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.011	0.0044	0.018	<0.002	0.066	0.023	0.015	0.014
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	344	.	261	.	329	.	344	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	200	200	200	190	210	220	200	200
Chloride	46	.	49	.	65	.	52	.
Fluoride	0.2	.	0.1	.	0.2	.	0.2	.
Magnesium	18	17	17	17	20	20	18	18
Manganese	0.053	0.056	0.16	0.0033	0.015	0.022	0.023	0.019
Nitrate-N	45	.	43	.	57	.	41	.
Potassium	4	4.1	3.7	3.4	4.5	4.5	4.2	4.1
Sodium	16	17	14	14	23	23	23	21
Sulfate	14	.	48	.	46	.	81	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location . Date Sampled	SS-4							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.19	0.059	0.076	0.068	0.074	0.14	0.91	0.024
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.092	0.09	0.088	0.089	0.13	0.13	0.093	0.076
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.045	0.046	0.015	0.014	0.13	0.15	0.035	0.045
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.011	<0.01	<0.01	0.071	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0044	<0.004	0.0066	<0.004	<0.004	0.0075	0.0045	<0.004
Iron	0.12	0.0074	<0.005	0.022	0.035	0.11	1.5	0.014
Lead (AAS)	<0.004	<0.004	<0.004	0.0078	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.031	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.1	4	3.6	3.4	3.9	3.6	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.13	0.13	0.14	0.15	0.24	0.25	0.098	0.093
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.04	0.038	0.041	0.046	0.09	0.11	0.067	0.048
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.008	0.0056	0.0069	<0.002	0.013	0.0044	0.02	0.011
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	207	.	199	.	215	.	168	.
Alkalinity-CO ₃	<1	.	<1	.	4	.	<1	.
Calcium	71	70	75	74	100	110	55	53
Chloride	13	.	15	.	<100	.	8	.
Fluoride	0.2	.	0.2	.	0.3	.	0.2	.
Magnesium	19	19	18	18	23	23	16	15
Manganese	0.052	0.0053	0.0099	0.004	0.0075	0.027	0.57	0.0063
Nitrate-N	10	.	12	.	37	.	4.77	.
Potassium	1.7	1.8	1.6	1.7	2.5	2.3	2.4	1.8
Sodium	7.4	7.8	7.1	7.2	13	13	6.4	5.8
Sulfate	18	.	18	.	32	.	15	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location . Date Sampled	SS-5							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
MTALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.081	0.022	0.067	0.03	0.044	0.027	0.26	0.024
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	0.059	<0.05	<0.05	<0.05	<0.05
Barium	0.058	0.058	0.06	0.062	0.095	0.095	0.043	0.041
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.025	0.026	<0.004	0.011	0.074	0.066	0.017	0.018
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	0.011	0.034	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0078	0.0061	<0.004	<0.004	<0.004	<0.004	0.0073
Iron	0.071	0.025	0.0063	<0.005	0.033	0.019	0.24	0.025
Lead (AAS)	<0.004	<0.004	0.012	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.6	3.5	3.5	3.2	3.5	3.3	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.074	0.073	0.083	0.086	0.15	0.15	0.032	0.032
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.032	0.029	0.039	0.037	0.061	0.064	0.007	0.006
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0061	0.01	0.0048	0.0048	0.02	0.011	0.0083	0.019
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	166	.	138	.	163	.	101	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	40	40	40	39	70	69	27	27
Chloride	8	.	6	.	<100	.	3	.
Fluoride	0.2	.	0.2	.	0.3	.	<0.1	.
Magnesium	13	13	13	14	16	16	10	11
Manganese	0.0063	0.0049	0.0063	0.0027	0.0027	0.0031	0.016	0.0059
Nitrate-N	5	.	8	.	27	.	1.36	.
Potassium	1.1	1.2	1.1	1.1	1.7	1.8	1.1	0.75
Sodium	3.9	4.1	3.5	3.8	7.6	7.4	2.3	2.5
Sulfate	12	.	11	.	20	.	7	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	SS-6							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.075	0.034	0.051	0.027	0.043	0.027	0.087	0.037
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.027	0.028	0.026	0.026	0.026	0.026	0.023	0.021
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.018	0.013	<0.004	0.031	0.01	<0.004	0.02	0.02
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.024	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	0.0044	<0.004	<0.004	0.0046	0.0084	<0.004	<0.004
Iron	0.17	0.032	0.031	<0.005	0.27	0.027	0.12	0.035
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.4	3.2	3.2	3.3	3.4	3.1	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.019	0.019	0.019	0.019	0.022	0.021	0.02	0.019
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.027	0.035	0.078	0.0096	0.036	0.036	0.047	0.046
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	94	.	105	.	142	.	63	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	21	21	22	21	32	32	18	17
Chloride	<10	.	<1	.	<1	.	<1	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	10	9.9	12	12	16	16	6.7	6.3
Manganese	0.031	0.029	0.024	0.019	0.0051	0.0069	0.024	0.016
Nitrate-N	<10	.	<0.2	.	<0.2	.	<0.2	.
Potassium	0.63	<0.6	0.62	0.68	1	1	0.98	<0.6
Sodium	0.6	0.61	0.2	0.44	0.47	0.44	0.56	0.63
Sulfate	<10	.	3	.	3	.	6	.

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	SS-8							
	01/18/91		04/10/91		07/29/91		12/04/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.093	0.068	0.076	0.037	0.028	0.035	0.19	0.058
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	0.052	<0.05	<0.05	<0.05	<0.05
Barium	0.034	0.039	0.033	0.035	0.046	0.047	0.029	0.027
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.016	0.016	<0.004	0.008	0.02	0.0072	0.0081	0.021
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.012	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.12	0.12	0.02	<0.005	0.02	0.022	0.26	0.041
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.016	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.6	4.8	3.4	0.75	3.7	3.8	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.028	0.029	0.028	0.03	0.037	0.038	0.018	0.017
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0084	0.018	<0.002	0.0088	0.011	0.1	0.016	0.0072
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	107	.	112	.	146	.	79	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	27	27	26	26	38	37	20	20
Chloride	<10	.	2	.	2	.	2	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	9.1	9.2	9.9	10	14	14	8.1	8
Manganese	0.12	0.11	0.0027	0.0028	0.0044	0.0051	0.0093	0.0031
Nitrate-N	<10	.	0.4	.	0.3	.	<0.2	.
Potassium	0.8	0.82	0.7	0.92	0.94	1.1	0.77	0.62
Sodium	1.8	2	1.2	1.5	1.3	1.4	2	1.9
Sulfate	<10	.	2	.	2	.	4	.

VOLATILE ORGANIC COMPOUNDS

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-005		GW-013				GW-018	
	OLF		OLF				BG	
	01/26/91	05/09/91	01/28/91	05/02/91	08/19/91	10/17/91	03/21/91	06/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	16
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	3	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-037		GW-040	GW-042				GW-043
	BG		BG	BG				OLF
	03/09/91	06/14/91	11/12/91	03/05/91	06/11/91	09/05/91	11/04/91	01/22/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	17	0.8	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.4	G	G	G	1	G
1,1,1-Trichloroethane	G	G	G	G	10	4	0.9	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-043			GW-044				GW-052
	OLF			OLF				BG
	05/01/91	08/12/91	10/15/91	01/22/91	05/01/91	08/09/91	10/14/91	03/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	15	4	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	3	N
Methylene chloride	G	G	G	G	G	G	1	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	1	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.7	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-053				GW-054			
	BG				BG			
	03/19/91	06/19/91	09/26/91	12/22/91	02/27/91	05/31/91	09/15/91	11/24/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	0.8	1	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	3	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	9	21	14	10	G	G	G	G
1,2-Dichloroethane	G	G	1	1	G	G	G	G
1,1-Dichloroethene	G	11	0.8	G	G	G	G	G
1,2-Dichloroethene	20	G	30	21	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	4	N	N	N	N	N
Methylene chloride	G	18	0.7	14	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	0.9	0.9	G	0.5	G	G
Toluene	G	G	1	G	G	G	2	G
1,1,1-Trichloroethane	G	1	0.9	G	G	0.7	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	4	4	3	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	11	17	25	6	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-056				GW-057		GW-058	
	BG				BG		BG	
	02/26/91	05/24/91	09/15/91	12/11/91	02/26/91	06/19/91	03/19/91	06/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.9	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	2	2	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	16	G	G	G	17	G	17
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	2	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	0.6	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-058		GW-061				GW-063	
	BG		BG				OLF	
	09/20/91	12/17/91	03/19/91	06/19/91	09/26/91	12/21/91	02/08/91	05/12/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	1	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	0.8	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	4	N	N	N
Methylene chloride	G	G	G	17	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	0.6	G	G	G	1	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	0.6	G	G	0.8	G	33	21
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-063		GW-064				GW-069	
	OLF		OLF				BG	
	08/13/91	10/23/91	02/20/91	05/17/91	08/14/91	10/23/91	03/19/91	06/17/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	2	G	4	3	4	3	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	1	G	3	2	3	3	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	9	6	9	12	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	16	G	G	G	15
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	1	G	G
Toluene	G	1	G	G	G	1	G	G
1,1,1-Trichloroethane	G	G	1	0.9	1	1	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	38	22	89	82	110	110	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-069		GW-071		GW-072		GW-074	
	BG		BG		BG		OLF	
	09/20/91	12/16/91	03/24/91	06/21/91	03/19/91	06/18/91	01/30/91	05/10/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	29	M	N	N	N	N
Benzene	G	G	130	420	G	G	G	G
Bromodichloromethane	G	G	N	Z	G	G	G	G
Bromoform	G	G	N	Z	G	G	G	G
Bromomethane	N	N	V	M	N	N	N	N
2-Butanone	N	N	V	M	N	N	N	N
Carbon disulfide	G	G	N	Z	G	G	G	G
Carbon tetrachloride	G	G	N	Z	G	G	G	G
Chlorobenzene	G	G	N	Z	G	G	G	G
Chlorodibromomethane	G	G	N	Z	G	G	G	G
Chloroethane	N	N	V	M	N	N	N	N
Chloroform	G	G	2	Z	G	G	G	G
Chloromethane	N	N	V	M	N	N	N	N
1,1-Dichloroethane	G	G	430	820	9	19	G	G
1,2-Dichloroethane	G	G	N	Z	G	G	G	G
1,1-Dichloroethene	G	G	14	16	G	G	G	G
1,2-Dichloroethene	G	G	43	42	G	G	G	G
1,2-Dichloropropane	G	G	N	Z	G	G	G	G
cis-1,3-Dichloropropene	G	G	N	Z	G	G	G	G
trans-1,3-Dichloropropene	G	G	N	Z	G	G	G	G
Ethylbenzene	G	G	N	Z	G	G	G	G
2-Hexanone	N	N	V	M	N	N	N	N
4-Methyl-2-pentanone	N	N	V	M	N	N	N	N
Methylene chloride	G	G	N	Z	G	3	G	G
Styrene	G	G	N	Z	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	N	Z	G	G	G	G
Tetrachloroethene	G	G	400	480	G	G	G	G
Toluene	G	G	N	Z	G	G	0.7	G
1,1,1-Trichloroethane	G	G	110	330	G	0.9	G	G
1,1,2-Trichloroethane	G	G	N	Z	G	G	G	G
Trichloroethene	G	G	410	490	G	G	G	G
Vinyl acetate	N	N	V	M	N	N	N	N
Vinyl chloride	N	N	V	M	N	N	N	N
Xylenes	G	G	N	Z	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-074		GW-075				GW-076	
	OLF		OLF				OLF	
	08/26/91	10/21/91	01/28/91	05/10/91	08/27/91	10/25/91	01/26/91	05/09/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	1	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-077		GW-078		GW-079		GW-080	
	BG		BG		BG		BG	
	02/27/91	06/05/91	02/27/91	06/05/91	02/23/91	06/04/91	02/23/91	05/24/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	16
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-080		GW-082				GW-083	
	BG		BG				BG	
	09/07/91	11/06/91	03/09/91	06/11/91	09/25/91	12/21/91	03/09/91	06/11/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	72	51	G	27	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	1	N	N	N	4	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	1	2	G	1	G	G	G
1,1,1-Trichloroethane	G	G	G	G	0.4	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	2	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	5	N	N
Xylenes	G	G	G	G	G	1	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-083		GW-084				GW-085	
	BG		OLF				OLF	
	09/14/91	12/27/91	01/22/91	05/01/91	08/09/91	10/14/91	01/26/91	05/09/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	3	N	N
Methylene chloride	G	7	G	G	0.5	1	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethane	G	G	G	G	G	G	G	G
Toluene	1	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-085		GW-086		GW-089			
	OLF		OLF		BG			
	08/13/91	10/15/91	01/26/91	05/09/91	03/05/91	06/11/91	09/07/91	11/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	0.7
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	11	6	11	19
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	7	5	9	13
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	1	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	0.6	G	G	G	G	G	1
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	3	2	3	3
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-095				GW-101		GW-115	
	BG				S3		S3	
	03/19/91	06/18/91	09/23/91	12/16/91	01/12/91	04/14/91	01/05/91	04/03/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	16	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.6	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-115		GW-117				GW-118	
	S3		BG				BG	
	07/01/91	10/01/91	03/25/91	06/17/91	09/23/91	12/19/91	03/25/91	06/17/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	25	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	3	2	1	1	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	2	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	3	N	N	N	N	N	N
Methylene chloride	G	G	G	16	0.7	G	G	15
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	20	14	12	9	G	G
Toluene	G	1	G	G	1	G	G	G
1,1,1-Trichloroethane	0.9	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	5	4	4	3	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-118		GW-119				GW-122	
	BG		BG				S3	
	09/23/91	12/19/91	03/25/91	06/17/91	09/23/91	12/19/91	01/12/91	04/13/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	13	N	N	N	N	N	N
Benzene	0.7	2	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	0.6	G	5	5	6	5	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	2	N	N	N	3	N	4	N
Methylene chloride	G	G	G	16	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	2	2	3	2	1	G
Toluene	2	2	G	G	1	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	1	G	G	G
Vinyl acetate	2	6	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-123				GW-125			
	S3				S3			
	03/25/91	04/06/91	07/12/91	10/04/91	03/25/91	04/06/91	07/12/91	10/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	12	N	N	N	13	N	N	33
Benzene	G	G	0.5	0.5	G	G	G	0.8
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	0.8	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	16	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.9	2	G	G	G	2
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-162		GW-163		GW-164		GW-209	
Location	BG		BG		BG		RXP	
Date Sampled	02/28/91	06/11/91	03/02/91	06/12/91	03/05/91	06/13/91	02/23/91	06/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	17	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	2	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-210		GW-211		GW-225			
	EXP		EXP		OLF			
	02/23/91	06/05/91	02/26/91	06/06/91	02/21/91	05/17/91	08/31/91	11/01/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	21	V	V	M
Benzene	G	G	G	G	N	N	N	D
Bromodichloromethane	G	G	G	G	N	N	N	D
Bromoform	G	G	G	G	N	N	N	D
Bromomethane	N	N	N	N	V	V	V	M
2-Butanone	N	N	N	N	V	V	V	M
Carbon disulfide	G	G	G	G	N	N	N	D
Carbon tetrachloride	G	G	G	G	8	7	2	7
Chlorobenzene	G	G	G	G	N	N	N	D
Chlorodibromomethane	G	G	G	G	N	N	N	D
Chloroethane	N	N	N	N	V	V	V	M
Chloroform	G	G	G	G	4	2	4	D
Chloromethane	N	N	N	N	V	V	V	M
1,1-Dichloroethane	G	G	G	G	N	N	N	D
1,2-Dichloroethane	G	G	G	G	N	N	N	D
1,1-Dichloroethene	G	G	G	G	5	5	4	3
1,2-Dichloroethene	G	G	G	G	N	N	N	D
1,2-Dichloropropane	G	G	G	G	N	N	N	D
cis-1,3-Dichloropropene	G	G	G	G	N	N	N	D
trans-1,3-Dichloropropene	G	G	G	G	N	N	N	D
Ethylbenzene	G	G	G	G	N	N	N	D
2-Hexanone	N	N	N	N	V	V	V	M
4-Methyl-2-pentanone	N	N	N	N	V	V	V	M
Methylene chloride	G	G	G	G	N	32	N	D
Styrene	G	G	G	G	N	N	N	D
1,1,2,2-Tetrachloroethane	G	G	G	G	N	N	N	D
Tetrachloroethene	G	G	G	G	6	5	5	2
Toluene	G	G	G	G	N	N	N	6
1,1,1-Trichloroethane	G	G	G	G	3	3	2	2
1,1,2-Trichloroethane	G	G	G	G	N	N	N	D
Trichloroethene	G	G	G	G	400	350	300	370
Vinyl acetate	N	N	N	N	V	V	V	M
Vinyl chloride	N	N	N	N	V	V	V	M
Xylenes	G	G	G	G	N	N	N	D

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-226		GW-227				GW-243	
	OLF		OLF				S3	
	02/08/91	05/13/91	02/08/91	05/12/91	08/31/91	11/01/91	01/22/91	04/18/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	600	.
Benzene	1	0.4	G	G	G	G	B	.
Bromodichloromethane	G	G	G	G	G	G	B	.
Bromoform	G	G	G	G	G	G	B	.
Bromomethane	N	N	N	N	N	N	T	.
2-Butanone	N	N	N	N	N	N	T	.
Carbon disulfide	G	G	G	G	G	G	B	.
Carbon tetrachloride	G	G	G	G	G	G	B	.
Chlorobenzene	6	8	G	G	G	G	B	.
Chlorodibromomethane	G	G	G	G	G	G	B	.
Chloroethane	4	N	N	N	N	N	T	.
Chloroform	G	G	G	G	G	G	38	.
Chloromethane	N	N	N	N	N	N	T	.
1,1-Dichloroethane	G	3	G	G	G	G	B	.
1,2-Dichloroethane	G	G	G	G	G	G	B	.
1,1-Dichloroethene	2	1	G	G	G	G	B	.
1,2-Dichloroethene	36	29	G	G	G	G	B	.
1,2-Dichloropropane	G	G	G	G	G	G	B	.
cis-1,3-Dichloropropene	G	G	G	G	G	G	B	.
trans-1,3-Dichloropropene	G	G	G	G	G	G	B	.
Ethylbenzene	G	G	G	G	G	G	B	.
2-Hexanone	N	N	N	N	N	N	T	.
4-Methyl-2-pentanone	N	N	N	N	N	N	T	.
Methylene chloride	G	G	G	G	G	1	200	.
Styrene	G	G	G	G	G	G	B	.
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	B	.
Tetrachloroethene	G	G	G	G	G	G	5200	.
Toluene	G	G	G	G	G	G	B	.
1,1,1-Trichloroethane	G	G	G	G	G	G	25	.
1,1,2-Trichloroethane	G	G	G	G	G	G	B	.
Trichloroethene	6	3	9	9	6	7	B	.
Vinyl acetate	N	N	N	N	N	N	T	.
Vinyl chloride	N	N	N	N	N	N	T	.
Xylenes	G	G	G	G	G	G	B	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-243		GW-286		GW-287		GW-290	
Location	S3		BG		BG		BG	
Date Sampled	08/06/91	10/11/91	09/14/91	11/23/91	09/14/91	11/23/91	03/21/91	06/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	W	1300	N	N	N	N	N	N
Benzene	T	T	G	G	G	G	G	G
Bromodichloromethane	T	T	G	G	G	G	G	G
Bromoform	T	T	G	G	G	G	G	G
Bromomethane	W	W	N	N	N	N	N	N
2-Butanone	W	W	N	N	N	N	N	N
Carbon disulfide	T	T	G	G	G	G	G	G
Carbon tetrachloride	T	T	G	G	G	G	G	G
Chlorobenzene	T	T	G	G	G	G	G	G
Chlorodibromomethane	T	T	G	G	G	G	G	G
Chloroethane	W	W	N	N	N	N	N	N
Chloroform	33	T	G	G	G	G	G	G
Chloromethane	W	W	N	N	N	N	N	N
1,1-Dichloroethane	T	T	G	G	G	G	G	G
1,2-Dichloroethane	T	T	G	G	G	G	G	G
1,1-Dichloroethene	T	T	G	G	G	G	G	G
1,2-Dichloroethene	T	T	G	G	G	G	G	G
1,2-Dichloropropane	T	T	G	G	G	G	G	G
cis-1,3-Dichloropropene	T	T	G	G	G	G	G	G
trans-1,3-Dichloropropene	T	T	G	G	G	G	G	G
Ethylbenzene	T	T	G	G	G	G	G	G
2-Hexanone	W	W	N	N	N	N	N	N
4-Methyl-2-pentanone	W	W	N	N	N	N	N	N
Methylene chloride	270	310	G	G	G	1	G	G
Styrene	T	T	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	T	T	G	G	G	G	G	G
Tetrachloroethene	5900	7100	G	G	G	G	G	G
Toluene	T	35	G	G	G	G	G	G
1,1,1-Trichloroethane	T	T	G	G	G	G	G	0.8
1,1,2-Trichloroethane	T	T	G	G	G	G	G	G
Trichloroethene	T	T	G	G	G	G	G	G
Vinyl acetate	W	W	N	N	N	N	N	N
Vinyl chloride	W	W	N	N	N	N	N	N
Xylenes	T	T	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-291		GW-306		GW-307		GW-308	
Location	BG		RS		RS		RS	
Date Sampled	03/24/91	06/21/91	01/14/91	04/26/91	01/14/91	04/26/91	01/14/91	04/30/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	A	N	N	N	N	N	N	N
Benzene	V	G	G	G	G	G	G	G
Bromodichloromethane	V	G	G	G	G	G	G	G
Bromoform	V	G	G	G	G	G	G	G
Bromomethane	A	N	N	N	N	N	N	N
2-Butanone	A	N	N	N	N	N	N	N
Carbon disulfide	V	G	G	G	G	G	G	G
Carbon tetrachloride	V	G	2	1	G	4	4	1
Chlorobenzene	V	G	G	G	G	G	G	G
Chlorodibromomethane	V	G	G	G	G	G	G	G
Chloroethane	A	N	N	N	N	N	N	N
Chloroform	5	G	3	3	4	5	5	4
Chloromethane	A	N	N	N	N	N	N	N
1,1-Dichloroethane	V	G	G	G	4	3	2	2
1,2-Dichloroethane	V	G	G	G	G	G	G	G
1,1-Dichloroethene	V	G	G	G	G	G	G	G
1,2-Dichloroethene	V	11	9	8	G	16	G	11
1,2-Dichloropropane	V	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	V	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	V	G	G	G	G	G	G	G
Ethylbenzene	V	G	G	G	G	G	G	G
2-Hexanone	A	N	N	N	N	N	N	N
4-Methyl-2-pentanone	A	N	8	N	N	N	N	N
Methylene chloride	V	G	G	G	G	G	G	G
Styrene	V	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	V	G	G	G	G	G	G	G
Tetrachloroethene	640	600	G	G	1	G	1	0.7
Toluene	V	G	G	G	G	G	G	G
1,1,1-Trichloroethane	V	3	2	2	2	2	3	2
1,1,2-Trichloroethane	V	G	G	G	G	G	G	G
Trichloroethene	71	110	65	71	37	54	54	37
Vinyl acetate	A	N	N	N	N	N	N	N
Vinyl chloride	A	N	N	N	N	N	N	N
Xylenes	V	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-309				GW-310		GW-311	
	RS				RS		RS	
	01/13/91	04/25/91	08/13/91	10/23/91	01/15/91	04/30/91	01/13/91	04/26/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	N	3	3
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	1	1
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	8	8	9	6	20	34	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	6	N
Methylene chloride	G	G	G	0.6	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	1	2	2	3	3	G	G
Toluene	G	G	G	0.9	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	10	11	11	7	52	48	30	27
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-312		GW-313				GW-314	
	RS		SPI				SPI	
	01/14/91	04/26/91	01/09/91	04/09/91	07/18/91	10/05/91	01/08/91	04/08/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	C	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	1	0.8	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	120	G	5	10	140	16
1,2-Dichloropropane	G	G	C	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	5	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	18	5	9	13	24	22
Toluene	G	G	G	G	0.4	1	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	80	61	8	1	4	7	8	8
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-314		GW-315				GW-316	
Location	SPI		SPI				SPI	
Date Sampled	07/20/91	10/05/91	01/08/91	04/08/91	07/20/91	10/05/91	01/08/91	04/08/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	4	3	32	12	14	12	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	4	N
Methylene chloride	15	G	G	G	17	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	8	6	38	19	20	18	G	G
Toluene	G	1	G	G	G	1	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	3	2	15	6	9	6	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-316		GW-317				GW-323	
	SPI		SPI				SPI	
	07/18/91	10/05/91	01/06/91	04/06/91	07/10/91	10/03/91	01/06/91	04/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	22	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	1	G	G	G	0.8	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-323		GW-324		GW-325		GW-342	
	SPI		S3		S3		BG	
	07/03/91	10/03/91	01/05/91	04/03/91	01/05/91	04/04/91	03/06/91	06/13/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	16
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	0.8	G	G	G	G	G	G
1,1,1-Trichloroethane	0.9	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-342		GW-343				GW-344	
	BG		BG				BG	
	09/05/91	11/05/91	03/07/91	06/14/91	09/05/91	11/07/91	03/09/91	06/15/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	0.8	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	0.8	G	16	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	1	G	G	G	1	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-344		GW-345		GW-347			GW-348
Location	BG		S3		S3			S3
Date Sampled	09/08/91	11/07/91	01/16/91	04/14/91	04/04/91	07/02/91	10/02/91	04/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	0.3	1	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	0.9	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-348		GW-364				GW-365	
	S3		OLF				OLF	
	07/02/91	10/02/91	02/07/91	05/12/91	08/28/91	10/28/91	02/09/91	05/14/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	5	5	3	5	5	4
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	5	5	3	5	12	11
1,2-Dichloroethene	G	G	12	10	8	12	52	42
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	3	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	1
Toluene	G	G	0.7	G	G	2	G	G
1,1,1-Trichloroethane	0.9	G	2	2	2	2	6	5
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	0.5	G	15	15	12	13	16	26
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-601				GW-602			
	OLF				OLF			
	01/25/91	05/04/91	08/30/91	10/31/91	01/25/91	05/06/91	08/22/91	10/18/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	15	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	4	4	3	5	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	1	G	0.9	0.7	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	1	G	G	G	G	G
1,2-Dichloroethene	2	G	1	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	1	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	4	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	1	G	1	G	G	G	G	G
Toluene	G	G	4	G	G	G	G	G
1,1,1-Trichloroethane	0.7	G	0.7	0.9	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	170	150	170	160	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	4	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-613				GW-614			
	S3				S3			
	01/05/91	04/04/91	07/01/91	10/01/91	01/05/91	04/04/91	07/02/91	10/01/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	3	N	N	N	3
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	1	G	G	G	1
1,1,1-Trichloroethane	G	G	0.8	G	G	G	0.9	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-623				GW-624		GW-626	
	BG				BG		BG	
	03/24/91	06/21/91	09/26/91	12/22/91	03/24/91	06/21/91	03/23/91	06/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	W	130	P	N	V	N	N	5
Benzene	T	7	L	G	N	4	G	G
Bromodichloromethane	T	G	L	G	N	G	G	G
Bromoform	T	G	L	G	N	G	G	G
Bromomethane	W	N	P	N	V	N	N	N
2-Butanone	W	N	P	N	V	N	N	N
Carbon disulfide	T	G	L	G	N	G	G	G
Carbon tetrachloride	T	G	L	G	N	G	G	G
Chlorobenzene	T	G	L	G	N	G	G	G
Chlorodibromomethane	T	G	L	G	N	G	G	G
Chloroethane	W	33	P	1	V	N	N	N
Chloroform	38	G	L	G	3	3	G	G
Chloromethane	W	N	P	N	V	N	N	N
1,1-Dichloroethane	870	3200	1900	11	22	50	6	3
1,2-Dichloroethane	T	8	L	G	N	4	G	0.8
1,1-Dichloroethene	T	660	210	G	6	18	4	2
1,2-Dichloroethene	T	580	L	21	330	800	70	32
1,2-Dichloropropane	T	G	L	G	N	G	G	G
cis-1,3-Dichloropropene	T	G	L	G	N	G	G	G
trans-1,3-Dichloropropene	T	G	L	G	N	G	G	G
Ethylbenzene	T	33	L	G	N	G	G	G
2-Hexanone	W	N	P	N	V	N	N	N
4-Methyl-2-pentanone	W	4	P	N	V	N	N	N
Methylene chloride	T	61	L	7	N	G	G	G
Styrene	T	G	L	G	N	G	G	G
1,1,2,2-Tetrachloroethane	T	G	L	G	N	G	G	G
Tetrachloroethene	8400	8400	25000	1	71	140	8	5
Toluene	T	10	670	G	N	G	G	G
1,1,1-Trichloroethane	110	610	220	G	6	15	2	2
1,1,2-Trichloroethane	T	G	L	G	N	G	G	G
Trichloroethene	5400	6700	15000	3	68	160	11	7
Vinyl acetate	W	N	P	N	V	N	N	N
Vinyl chloride	W	150	P	11	29	180	N	N
Xylenes	T	130	L	G	N	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-626		GW-627				GW-629	
	BG		BG				BG	
	09/26/91	12/22/91	03/24/91	06/22/91	09/25/91	12/18/91	03/26/91	06/22/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	74	N	N	N	N	N	N
Benzene	G	3	G	G	G	G	G	G
Bromodichloromethane	G	2	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	50	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	10	N	N	N	N	N	N
Chloroform	0.9	5	0.8	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	11	G	G	2	2	G	6	8
1,2-Dichloroethane	2	3	G	G	G	G	G	G
1,1-Dichloroethene	6	340	G	G	G	G	G	1
1,2-Dichloroethene	110	280	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	13	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	3	N	N	N	3	N	N	N
Methylene chloride	0.7	28	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	13	730	6	16	19	10	75	110
Toluene	1	4	G	G	1	G	G	G
1,1,1-Trichloroethane	5	290	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	21	890	G	2	3	G	7	12
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	47	N	N	N	N	N	N
Xylenes	G	51	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-630				GW-636			
	OLF				OLF			
	03/26/91	06/25/91	08/09/91	10/14/91	02/11/91	05/16/91	08/21/91	10/18/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	22	N	49	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.9	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	16	G	1	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	1	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-637				GW-638			
	OLF				OLF			
	02/12/91	05/17/91	08/20/91	10/17/91	02/12/91	05/17/91	08/20/91	10/17/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	0.9	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	4	N	N	N	4
Methylene chloride	G	16	G	G	G	16	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	3	G	G	G	3
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-639				GW-640			
	BG				BG			
	03/25/91	06/22/91	09/09/91	11/16/91	03/25/91	06/22/91	09/09/91	11/15/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	0.9	G	G	G	0.8
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.7	G	G	G	0.7	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-641				GW-642			
	BG				BG			
	03/25/91	06/22/91	09/09/91	11/15/91	03/09/91	06/15/91	09/04/91	11/03/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	0.6
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.7	G	G	G	G	1
1,1,1-Trichloroethane	G	G	G	G	G	3	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-643				GW-644			
	BG				OLF			
	02/27/91	06/08/91	09/04/91	11/03/91	01/31/91	05/10/91	08/20/91	10/17/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	4
Methylene chloride	G	G	G	1	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	3
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-645				GW-646			
	OLF				OLF			
	02/12/91	05/17/91	08/22/91	10/18/91	01/31/91	05/10/91	08/22/91	10/21/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	16	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-365		GW-366				GW-367	
	OLF		OLF				OLF	
	08/28/91	10/29/91	02/01/91	05/11/91	08/27/91	10/25/91	02/02/91	05/11/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	1
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	5	5	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	16	13	G	G	G	G	G	G
1,2-Dichloroethene	50	51	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	0.5	G	G	G	G	1	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	2	1	G	G	G	G	G	G
Toluene	0.7	2	G	G	G	G	G	G
1,1,1-Trichloroethane	7	4	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	44	27	G	G	0.5	0.8	19	17
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	3	2	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-369		GW-370				GW-371	
	OLF		BG				BG	
	02/10/91	05/15/91	02/28/91	06/10/91	09/09/91	11/14/91	09/09/91	11/14/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	1	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	0.7	G	G	G
1,1,1-Trichloroethane	G	G	G	0.8	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	54	32	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-531		GW-532		GW-533		GW-534	
	OLF		OLF		OLF		OLF	
	03/26/91	06/24/91	03/26/91	06/24/91	03/26/91	06/25/91	03/26/91	06/25/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	0.8	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	17
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	0.8	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-535		GW-537				GW-538	
	OLF		OLF				OLF	
	03/26/91	06/24/91	03/26/91	06/25/91	08/14/91	10/23/91	03/28/91	06/25/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	1	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	16	G	G	G	15
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	0.9	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-372				GW-373			
	BG				BG			
	02/22/91	05/23/91	09/04/91	11/02/91	02/22/91	05/23/91	09/04/91	11/02/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	11	N	N	N	12	N	19	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	0.8	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	17	G	G	G	16	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	1	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-520				GW-526			
	OLF				S3			
	03/25/91	05/12/91	08/27/91	10/24/91	01/16/91	04/13/91	08/02/91	10/06/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	15	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	1	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	0.8	G	G	G	G	2
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	0.6	G	G	G	6	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-615				GW-616			
	S3				S3			
	01/11/91	04/10/91	08/05/91	10/08/91	01/12/91	04/12/91	07/27/91	10/07/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Acetone	190	130	73	89	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	4	3	4	2	G	G	16	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-621				GW-622			
	BG				BG			
	03/20/91	06/20/91	09/10/91	11/16/91	03/20/91	06/20/91	09/25/91	12/21/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	1	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	3	N
Methylene chloride	G	G	G	G	G	17	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	1	G
1,1,1-Trichloroethane	G	0.8	G	G	G	G	1	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-647				GW-648			
	OLF				RS			
	02/01/91	05/10/91	08/26/91	10/21/91	01/15/91	05/01/91	07/03/91	10/03/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	1	G	G	0.4	G	G	G	0.7
1,1,1-Trichloroethane	G	G	G	G	G	G	0.8	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-649				GW-651			
	OLF				BG			
	01/06/91	04/06/91	07/02/91	10/02/91	03/23/91	06/21/91	09/15/91	11/23/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	0.7	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	4	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	4	G	G	2	G
1,1,1-Trichloroethane	G	G	0.9	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	3	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-652				GW-653			
	BG				BG			
	03/23/91	06/21/91	09/14/91	11/23/91	03/23/91	06/21/91	09/15/91	12/11/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	13	9	8	7
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	4	2	3	3
Toluene	G	G	G	G	G	G	2	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	0.7	0.7
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-654				GW-655			
	BG				BG			
	03/09/91	06/15/91	09/14/91	11/23/91	03/09/91	06/15/91	09/05/91	11/05/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	2
Methylene chloride	G	G	G	1	G	G	G	0.7
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	1	G	G	G	G	1
1,1,1-Trichloroethane	G	3	G	G	G	3	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-683			GW-684			GW-685	
	EXP			EXP			EXP	
	05/24/91	09/19/91	12/12/91	05/30/91	09/19/91	12/12/91	06/01/91	09/18/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	0.3	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	3	3
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	16	G	G	G	G	G	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	0.5	G
Toluene	G	G	G	G	G	G	G	3
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	0.7	G	G	0.6	0.6
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-685	GW-694				GW-695			GW-703
Location	EXP	EXP				EXP			EXP
Date Sampled	12/12/91	06/19/91	09/13/91	11/22/91	06/18/91	09/13/91	11/22/91	06/18/91	
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.	.
Acetone	N	180	N	55	42	N	N	N	N
Benzene	G	G	0.9	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	0.9	G	G	G	G	G	G
Chlorobenzene	G	G	1	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N	N
Chloroform	G	G	G	.	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	1	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	4	2	G	G	G	G	G
1,2-Dichloroethene	2	G	38	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N
Methylene chloride	0.8	16	G	1	17	G	G	G	17
Styrene	G	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	2	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	2	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G
Trichloroethene	0.3	G	41	14	3	2	G	G	25
Vinyl acetate	N	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-703		GW-704			GW-705		
Location	EXP		EXP			EXP		
Date Sampled	09/11/91	11/18/91	06/20/91	09/12/91	11/19/91	06/20/91	09/10/91	09/11/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	.	N
Benzene	G	G	G	G	G	G	.	G
Bromodichloromethane	G	G	G	G	G	G	.	G
Bromoform	G	G	G	G	1	G	.	G
Bromomethane	N	N	N	N	N	N	.	N
2-Butanone	N	N	N	N	N	N	.	N
Carbon disulfide	G	G	G	G	G	G	.	G
Carbon tetrachloride	G	G	2	0.7	1	G	.	G
Chlorobenzene	G	G	G	G	G	G	.	G
Chlorodibromomethane	G	G	G	G	G	G	.	G
Chloroethane	N	N	N	N	N	N	.	N
Chloroform	G	G	G	0.4	G	G	.	G
Chloromethane	N	N	N	N	N	N	.	N
1,1-Dichloroethane	G	G	G	G	1	G	.	G
1,2-Dichloroethane	G	G	G	G	G	G	.	G
1,1-Dichloroethene	G	G	5	4	5	G	.	G
1,2-Dichloroethene	G	G	G	2	G	G	.	G
1,2-Dichloropropane	G	G	G	G	G	G	.	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	.	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	.	G
Ethylbenzene	G	G	G	G	G	G	.	G
2-Hexanone	N	N	N	N	5	N	.	N
4-Methyl-2-pentanone	N	5	N	N	5	N	.	N
Methylene chloride	G	1	16	G	1	16	.	G
Styrene	G	G	G	G	G	G	.	G
1,1,2,2-Tetrachloroethane	G	G	G	G	2	G	.	G
Tetrachloroethene	G	G	G	G	G	G	.	G
Toluene	0.9	G	G	1	G	G	.	0.9
1,1,1-Trichloroethane	G	G	2	1	2	G	.	G
1,1,2-Trichloroethane	G	G	G	G	G	G	.	G
Trichloroethene	23	23	79	65	65	G	.	G
Vinyl acetate	N	N	N	N	N	N	.	N
Vinyl chloride	N	N	N	N	N	N	.	N
Xylenes	G	G	G	G	G	G	.	G

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-705	GW-706				GW-710	GW-711	GW-712
Location	EXP	EXP				EXP	EXP	EXP
Date Sampled	11/17/91	06/20/91	09/13/91	11/19/91	12/05/91	12/10/91	12/09/91	
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	43	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	11	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	2	G	G	2
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	1	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	3	G	4	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	BCK-00.63				BCK-04.55			
	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location	BCK-09.40				BCK-11.97			
Date Sampled	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	11	7	5	4	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	2	G	0.5	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	0.4	G	G	G	0.4	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	0.9	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	HT-13				SS-1			
	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	G	G	0.7	2
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	1
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	2	2	2	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	1	0.6	0.6	3
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	SS-4				SS-5			
	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	1	G	G	G	0.9	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	2
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	6	13	4	4	G	G	0.9	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location	SS-6				SS-8			
Date Sampled	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	.	N	N	N
Benzene	G	G	G	G	.	G	G	G
Bromodichloromethane	G	G	G	G	.	G	G	G
Bromoform	G	G	G	G	.	G	G	G
Bromomethane	N	N	N	N	.	N	N	N
2-Butanone	N	N	N	N	.	N	N	N
Carbon disulfide	G	G	G	G	.	G	G	G
Carbon tetrachloride	G	G	G	G	.	G	G	G
Chlorobenzene	G	G	G	G	.	G	G	G
Chlorodibromomethane	G	G	G	G	.	G	G	G
Chloroethane	N	N	N	N	.	N	N	N
Chloroform	G	G	G	G	.	G	G	G
Chloromethane	N	N	N	N	.	N	N	N
1,1-Dichloroethane	G	G	G	G	.	G	G	G
1,2-Dichloroethane	G	G	G	G	.	G	G	G
1,1-Dichloroethene	G	G	G	G	.	G	G	G
1,2-Dichloroethene	G	G	G	G	.	G	G	G
1,2-Dichloropropane	G	G	G	G	.	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	.	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	.	G	G	G
Ethylbenzene	G	G	G	G	.	G	G	G
2-Hexanone	N	N	N	N	.	N	N	N
4-Methyl-2-pentanone	N	N	N	N	.	N	N	N
Methylene chloride	G	G	G	G	.	G	G	G
Styrene	G	G	G	G	.	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	.	G	G	G
Tetrachloroethene	G	G	G	G	.	G	G	G
Toluene	G	G	G	G	.	G	G	G
1,1,1-Trichloroethane	G	G	G	G	.	G	G	G
1,1,2-Trichloroethane	G	G	G	G	.	G	G	G
Trichloroethene	G	G	G	G	.	G	G	G
Vinyl acetate	N	N	N	N	.	N	N	N
Vinyl chloride	N	N	N	N	.	N	N	N
Xylenes	G	G	G	G	.	G	G	G

MISCELLANEOUS AND RADIOLOGICAL PARAMETERS

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-005		GW-013				GW-018	
	OLF		OLF				BG	
	01/26/91	05/09/91	01/28/91	05/02/91	08/19/91	10/17/91	03/21/91	06/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.9	5.1	2.2	1	1.1	3.4	5	5.1
pH, Field (pH units)	7.5	7.7	6.7	6.5	6.6	6.6	6.3	6.2
Redox, Field (mV)	101	5	221	13	-15	6	339	266
Sp. Cond., Field (umho/cm)	539	437	508	574	540	484	54	54
Temp, Field (degrees C)	12.3	15.7	12.7	14.6	19.8	18.1	20.7	22.1
pH, 1 (pH units)	7.1	6.4	6.8	6.5	7.2	6.9	5.8	6.8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	538	423	542	577	656	605	89	61
TDS (mg/L)	322	278	368	370	354	378	48	74
TSS (mg/L)	172	28	2	4	<1	5	1	13
Turbidity (NTU)	230	18	6.9	17	5	2.9	0.6	19
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	47.88	16.65	0.57	4.03	0.54	0.16	1.24	1.24
Gross Alpha (CE+/-)	4.90	2.90	1.30	1.80	1.10	1.80	1.00	1.40
Gross Beta (pCi/L)	35.83	17.26	1.36	9.37	1.89	2.16	3.68	-1.66
Gross Beta (CE+/-)	4.90	4.20	3.30	3.80	3.30	2.80	3.20	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Keptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-037		GW-040	GW-042				GW-043
	BG		BG	BG				OLF
	03/09/91	06/14/91	11/12/91	03/05/91	06/11/91	09/05/91	11/04/91	01/22/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.9	2.6	2.3	1.9	5.7	2.7	1.8	5.2
pH, Field (pH units)	7	6.7	6.8	5.7	5.7	5.4	6.3	6.1
Redox, Field (mV)	226	245	73	369	240	180	58	322
Sp. Cond., Field (umho/cm)	389	385	166	60	85	79	63	161
Temp, Field (degrees C)	14.1	19.6	14	14.6	16.8	18.9	14.7	12.7
pH, 1 (pH units)	6.8	8.2	6.1	6.2	3	6.2	5.9	6
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	397	338	170	78	70	78	95	91
TDS (mg/L)	258	258	126	54	54	52	70	122
TSS (mg/L)	2	2	24	<1	<1	<1	<1	22
Turbidity (NTU)	10	11	150	11	5	3.5	0.91	18
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.02	0.46	9.72	0.77	-0.11	0.60	0.00	0.51
Gross Alpha (CE+/-)	1.40	1.20	3.00	1.50	1.10	1.20	1.50	1.30
Gross Beta (pCi/L)	3.12	0.92	12.90	0.74	1.90	1.12	-2.13	-2.05
Gross Beta (CE+/-)	3.50	3.40	3.50	3.30	3.40	3.00	2.70	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	0.46	-0.42	.	.	0.81
Uranium 234 (CE+/-)	.	.	.	0.90	0.80	.	.	1.10
Uranium 235 (pCi/L)	.	.	.	-0.46	0.00	.	.	0.00
Uranium 235 (CE+/-)	.	.	.	0.90	1.40	.	.	1.40
Uranium 238 (pCi/L)	.	.	.	0.00	0.42	.	.	0.00
Uranium 238 (CE+/-)	.	.	.	1.60	0.80	.	.	1.40

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-043			GW-044				GW-052
	OLF			OLF				BG
	05/01/91	08/12/91	10/15/91	01/22/91	05/01/91	08/09/91	10/14/91	03/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.7	8.6	5.6	4.1	3.9	4.5	4.6	5.8
pH, Field (pH units)	6.5	6.5	6.2	6.8	7.2	7.2	7.1	7.2
Redox, Field (mV)	307	231	428	321	297	164	202	225
Sp. Cond., Field (umho/cm)	129	124	107	299	236	244	254	392
Temp, Field (degrees C)	14.9	15.5	14.1	12.5	14.6	15.2	14.7	12.2
pH, 1 (pH units)	3.9	7.2	6.7	6.7	6.1	7.7	7.5	6.6
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	133	166	579	224	240	294	273	419
TDS (mg/L)	134	120	120	184	184	176	190	266
TSS (mg/L)	11	15	13	<1	2	<1	<1	72
Turbidity (NTU)	21	21	29	0.45	0.2	0.25	0.23	52
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.34	1.49	0.29	1.95	0.69	2.22	0.30	31.16
Gross Alpha (CE+/-)	1.10	1.30	1.70	1.50	1.30	1.30	1.70	3.90
Gross Beta (pCi/L)	3.93	5.02	0.08	-0.38	0.19	0.39	2.56	51.44
Gross Beta (CE+/-)	3.50	3.50	2.70	3.40	3.30	3.30	2.90	5.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	0.43	.	.	0.00	0.41	.	.	.
Uranium 234 (CE+/-)	0.90	.	.	1.40	0.80	.	.	.
Uranium 235 (pCi/L)	0.00	.	.	0.00	0.00	.	.	.
Uranium 235 (CE+/-)	1.50	.	.	1.40	1.40	.	.	.
Uranium 238 (pCi/L)	0.87	.	.	0.00	0.82	.	.	.
Uranium 238 (CE+/-)	1.20	.	.	1.40	1.20	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-053				GW-054			
	BG				BG			
	03/19/91	06/19/91	09/26/91	12/22/91	02/27/91	05/31/91	09/15/91	11/24/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.1	0.7	10.8	0.9	8.5	6.1	4	5.8
pH, Field (pH units)	7.2	7.1	7.5	6.7	7.7	7.7	7	7.3
Redox, Field (mV)	179	14	31	150	252	-3	13	181
Sp. Cond., Field (umho/cm)	593	633	618	668	445	368	500	497
Temp, Field (degrees C)	11.6	17.2	17.2	12.9	12.7	17.2	18.6	12.2
pH, 1 (pH units)	7	7.3	7.2	7.3	7.1	6.6	7.7	7.56
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	697	743	745	678	516	509	508	552
TDS (mg/L)	408	464	422	406	390	292	344	322
TSS (mg/L)	4	8	36	20	49	16	11	31
Turbidity (NTU)	2.4	5.7	24	31	150	15	20	35
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.57	1.30	2.55	-0.93	2.47	0.79	2.93	1.51
Gross Alpha (CE+/-)	1.60	1.40	1.50	2.30	1.50	1.20	1.40	2.60
Gross Beta (pCi/L)	5.43	2.67	9.60	6.89	2.41	5.82	24.20	2.17
Gross Beta (CE+/-)	3.40	3.50	3.40	3.20	3.40	3.50	4.20	2.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-056				GW-057		GW-058	
	BG				BG		BG	
	02/26/91	05/24/91	09/15/91	12/11/91	02/26/91	06/19/91	03/19/91	06/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.5	1	1.7	4.2	1.4	1	4.2	5.4
pH, Field (pH units)	7.4	7.3	7.3	7.5	7	6.8	7.1	7
Redox, Field (mV)	223	-73	-88	101	224	32	247	217
Sp. Cond., Field (umho/cm)	665	625	742	503	752	655	496	585
Temp, Field (degrees C)	14.2	15.5	17.1	14.1	13	16.7	13.7	16.4
pH, 1 (pH units)	7.1	6.4	7.5	7.39	6.9	6.9	6.9	7.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	679	598	662	688	760	739	582	630
TDS (mg/L)	390	378	420	412	446	428	208	352
TSS (mg/L)	14	15	16	24	<1	8	9	6
Turbidity (NTU)	14	7.8	11	16	3	15	25	19
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	7.76	1.77	2.34	3.17	2.53	2.68	11.81	4.37
Gross Alpha (CE+/-)	2.10	1.40	1.30	2.30	1.50	1.60	2.60	1.80
Gross Beta (pCi/L)	8.65	10.14	2.57	3.13	1.18	2.16	18.33	4.32
Gross Beta (CE+/-)	3.70	3.70	3.10	2.80	3.30	3.50	4.00	3.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	3.19	1.23
Uranium 234 (CE+/-)	.	.	.	.	.	.	2.40	1.40
Uranium 235 (pCi/L)	.	.	.	.	.	.	0.46	0.00
Uranium 235 (CE+/-)	.	.	.	.	.	.	0.90	1.40
Uranium 238 (pCi/L)	.	.	.	.	.	.	0.91	1.64
Uranium 238 (CE+/-)	.	.	.	.	.	.	1.30	1.60

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-058		GW-061				GW-063	
	BG		BG				OLF	
	09/20/91	12/17/91	03/19/91	06/19/91	09/26/91	12/21/91	02/08/91	05/12/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	3.4	7	4.2	.	11.4	3.3	5.6	5.2
pH, Field (pH units)	6.7	6.8	7.1	6.7	6.7	3.5	7	7
Redox, Field (mV)	137	245	334	.	230	143	306	312
Sp. Cond., Field (umho/cm)	527	619	371	397	635	377	537	529
Temp, Field (degrees C)	14.1	10.4	13.3	17.6	13	12.7	12.7	14.4
pH, 1 (pH units)	7.8	7	6.8	7.5	7.2	7.2	6.8	6.4
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	689	644	438	474	771	496	507	491
TDS (mg/L)	396	390	232	290	472	298	358	322
TSS (mg/L)	9	12	3	6	5	7	75	91
Turbidity (NTU)	28	35	7.8	9.7	4.5	17	60	37
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	8.01	7.96	12.55	9.82	27.00	15.90	2.07	1.13
Gross Alpha (CE+/-)	2.20	3.40	2.70	2.40	3.60	4.00	1.40	1.50
Gross Beta (pCi/L)	17.10	19.10	20.24	16.87	82.90	45.90	16.02	10.07
Gross Beta (CE+/-)	3.90	4.20	4.10	4.20	6.20	4.80	4.00	3.70
Americium 241 (pCi/L)	.	.	.	.	0.40	.	.	.
Americium 241 (CE+/-)	.	.	.	.	1.60	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	1.26	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	1.50	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	23.70	.	.	.
Strontium (CE+/-)	.	.	.	.	5.50	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	9.22	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	650.00	.	.	.
Tritium (Bq/L)	.	.	.	.	26.00	58.00	.	.
Tritium (CE+/-)	.	.	.	.	24.00	41.00	.	.
Uranium 234 (pCi/L)	.	.	0.00	0.83	.	.	.	.
Uranium 234 (CE+/-)	.	.	1.40	1.20	.	.	.	.
Uranium 235 (pCi/L)	.	.	0.00	0.42	.	.	.	.
Uranium 235 (CE+/-)	.	.	1.40	0.80	.	.	.	.
Uranium 238 (pCi/L)	.	.	0.00	4.16	.	.	.	.
Uranium 238 (CE+/-)	.	.	1.40	2.60	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-063		GW-064				GW-069	
	OLF		OLF				BG	
	08/13/91	10/23/91	02/20/91	05/17/91	08/14/91	10/23/91	03/19/91	06/17/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	11.9	5.1	2	3.3	3.3	3.4	1.4	2.6
pH, Field (pH units)	13.4	6.9	7.1	7.1	7.2	7.2	8.9	8.8
Redox, Field (mV)	464	197	254	233	204	217	-121	-162
Sp. Cond., Field (umho/cm)	1139	607	528	569	593	585	335	350
Temp, Field (degrees C)	33.5	15.3	13.2	15.6	15.2	15.5	14.7	17.3
pH, 1 (pH units)	7.6	7.2	6.8	6.5	8	7.2	7.6	8.3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	594	621	391	527	712	632	349	387
TDS (mg/L)	298	402	402	404	364	432	216	248
TSS (mg/L)	<1	8	15	2	3	3	<1	<1
Turbidity (NTU)	0.4	22	34	4.5	3	7.9	0.17	0.25
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.01	3.84	-0.02	2.43	0.72	1.23	1.57	0.16
Gross Alpha (CE+/-)	1.40	2.00	1.30	1.50	1.20	1.40	1.50	1.20
Gross Beta (pCi/L)	13.01	7.83	22.58	22.95	22.88	9.77	4.11	2.26
Gross Beta (CE+/-)	3.90	3.00	4.30	4.40	4.30	3.10	3.30	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-069		GW-071		GW-072		GW-074	
Location	BG		BG		BG		OLF	
Date Sampled	09/20/91	12/16/91	03/24/91	06/21/91	03/19/91	06/18/91	01/30/91	05/10/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1	1.8	1.5	0.6	0.6	0.7	3.7	0.5
pH, Field (pH units)	8.3	8.5	10.4	10.3	9.9	9.8	9.2	8.9
Redox, Field (mV)	-138	-132	-325	-256	-146	-201	144	174
Sp. Cond., Field (umho/cm)	326	308	1527	1525	436	478	452	557
Temp, Field (degrees C)	15.2	14.3	16	16.1	14.1	16	14.6	15.6
pH, 1 (pH units)	8.5	8.7	10.4	10	9.8	9.9	9.5	6.7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	394	379	1485	1579	401	413	426	466
TDS (mg/L)	240	218	896	882	288	296	318	310
TSS (mg/L)	<1	2	19	1	2	2	<1	1
Turbidity (NTU)	0.25	1	1.1	0.3	3.9	1.6	0.35	0.31
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.49	-1.68	1.48	2.04	-0.30	2.08	-0.13	-0.09
Gross Alpha (CE+/-)	1.30	2.00	1.10	1.40	1.20	1.50	1.20	1.30
Gross Beta (pCi/L)	6.44	-2.96	3.50	3.85	0.97	2.55	2.01	5.49
Gross Beta (CE+/-)	3.30	3.10	3.20	3.20	3.10	3.40	3.40	3.50
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-080		GW-082				GW-083	
	BG		BG				BG	
	09/07/91	11/06/91	03/09/91	06/11/91	09/25/91	12/21/91	03/09/91	06/11/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.7	3	0.6	3.3	2.8	3.3	1.6	1
pH, Field (pH units)	5.7	5.9	7.3	7.2	7.5	5	7.9	7.6
Redox, Field (mV)	227	167	172	153	151	157	248	266
Sp. Cond., Field (umho/cm)	127	107	398	371	312	256	244	239
Temp, Field (degrees C)	15.6	12.8	12.5	16.1	15.1	13.7	15.1	15.8
pH, 1 (pH units)	6	6	7	6.1	7.6	7.5	6.9	5.3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	124	121	334	345	367	334	226	205
TDS (mg/L)	130	135	260	236	232	208	162	128
TSS (mg/L)	23	550	22	2	2	17	<1	2
Turbidity (NTU)	62	290	6.4	5.3	2.4	16	0.25	1.6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.85	2.11	0.51	0.75	0.70	0.16	2.09	0.90
Gross Alpha (CE+/-)	1.30	1.90	1.50	0.90	1.10	2.10	1.70	1.30
Gross Beta (pCi/L)	2.63	7.28	3.09	0.98	1.93	4.24	0.96	4.51
Gross Beta (CE+/-)	3.40	3.20	3.50	3.30	3.50	3.00	3.30	3.50
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-083		GW-084				GW-085	
	BG		OLF				OLF	
	09/14/91	12/27/91	01/22/91	05/01/91	08/09/91	10/14/91	01/26/91	05/09/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.2	1.2	1.9	2	2.4	1.5	2.2	7.2
pH, Field (pH units)	7.7	7.6	7.2	7.5	7.1	7.2	7.3	7.5
Redox, Field (mV)	84	142	280	263	183	195	289	312
Sp. Cond., Field (umho/cm)	226	228	308	264	269	261	1153	1061
Temp, Field (degrees C)	17.6	15.1	14.7	15.2	16.1	15.8	12.3	16.7
pH, 1 (pH units)	7.9	8.4	6.9	6.2	7.9	7.9	6.6	5.7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	219	224	238	279	332	294	1183	1187
TDS (mg/L)	140	176	234	204	198	216	870	946
TSS (mg/L)	2	1	65	33	51	55	4	2
Turbidity (NTU)	0.15	1.6	34	11	28	38	1.4	0.33
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.02	1.36	0.45	1.59	0.98	0.16	2.07	1.85
Gross Alpha (CE+/-)	1.10	2.20	1.30	1.50	1.10	1.70	1.70	1.30
Gross Beta (pCi/L)	0.55	2.97	1.35	0.30	-0.97	2.40	69.36	72.08
Gross Beta (CE+/-)	3.00	2.90	3.50	3.30	3.20	2.80	6.10	6.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	0.00	3.32	.	.	.	.
Uranium 234 (CE+/-)	.	.	1.40	2.40	.	.	.	.
Uranium 235 (pCi/L)	.	.	0.00	2.49	.	.	.	.
Uranium 235 (CE+/-)	.	.	1.40	2.00	.	.	.	.
Uranium 238 (pCi/L)	.	.	0.00	0.83	.	.	.	.
Uranium 238 (CE+/-)	.	.	1.40	1.20	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-115		GW-117				GW-118	
	S3		BG				BG	
	07/01/91	10/01/91	03/25/91	06/17/91	09/23/91	12/19/91	03/25/91	06/17/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.5	1.2	3.2	0.7	2.3	1.6	2.3	2
pH, Field (pH units)	7.2	7.3	9.1	9	9.5	7.1	9.5	9.7
Redox, Field (mV)	-99	-75	-85	-154	-155	-116	-30	-119
Sp. Cond., Field (umho/cm)	460	387	3680	3130	2790	3150	9530	8580
Temp, Field (degrees C)	18.5	16.7	16	16.3	16.5	10.6	16	17.3
pH, 1 (pH units)	8.2	7.7	8.7	9.1	8.9	9.32	8.6	9.6
Phenols (mg/L)	.	.	<0.03	<0.05	.	.	.	.
Sp. Cond., 1 (umho/cm)	432	466	3254	3300	331	3220	9468	8860
TDS (mg/L)	322	274	1940	1832	1844	1844	5216	4888
TSS (mg/L)	1	1	25	18	12	7	15	43
Turbidity (NTU)	2.2	2.4	23	17	6.4	6.3	18	28
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.84	5.44	-1.07	9.97	2.39	-6.96	1.67	2.93
Gross Alpha (CE+/-)	1.40	1.90	1.20	13.70	1.40	23.00	1.70	12.50
Gross Beta (pCi/L)	5.20	13.30	-1.00	15.22	0.69	-11.40	-1.57	-4.93
Gross Beta (CE+/-)	3.40	3.60	3.30	33.40	3.50	32.00	3.30	32.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-118		GW-119				GW-122	
	BG		BG				S3	
	09/23/91	12/19/91	03/23/91	06/17/91	09/23/91	12/19/91	01/12/91	04/13/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.5	1.6	1.5	3.4	1.1	1.6	0.4	3.2
pH, Field (pH units)	10.1	11.5	9.5	9.4	9.7	9.7	6.6	6.8
Redox, Field (mV)	2	-3	-21	-120	-163	-163	287	284
Sp. Cond., Field (umho/cm)	7500	8350	6340	5570	4870	5570	5320	4890
Temp, Field (degrees C)	14.7	12.3	15.5	18.3	14.9	11.3	12.4	15.1
pH, 1 (pH units)	9.9	10.84	8.9	9.4	9.3	9.5	6.7	7.8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	8790	8850	6333	5860	5780	5640	5935	6154
TDS (mg/L)	4944	4976	3514	2956	3218	3206	4392	4336
TSS (mg/L)	85	63	18	20	22	11	4	6
Turbidity (NTU)	18	50	18	17	6.8	6.1	1.3	3.2
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	17.41	-26.60	-0.19	-13.91	9.13	-14.40	-11.01	-0.81
Gross Alpha (CE+/-)	6.80	29.00	1.40	8.80	5.60	26.00	11.40	6.60
Gross Beta (pCi/L)	-0.36	-13.60	3.81	31.38	16.42	6.25	-9.33	40.05
Gross Beta (CE+/-)	13.70	33.00	3.60	34.30	14.60	34.00	35.40	33.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-085		GW-086		GW-089			
	OLF		OLF		BG			
	08/13/91	10/15/91	01/26/91	05/09/91	03/05/91	06/11/91	09/07/91	11/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2	1.8	2.9	2.4	8	2.3	0.6	5.3
pH, Field (pH units)	7.1	6.8	6	5.6	7.3	7.3	7.1	6.9
Redox, Field (mV)	247	317	325	295	281	-77	55	26
Sp. Cond., Field (umho/cm)	1220	1359	228	211	272	305	315	289
Temp, Field (degrees C)	17.8	15.2	11.8	15.3	8.6	17.3	18.5	14.8
pH, 1 (pH units)	7.6	7.3	6.4	5.5	7.3	5.9	7.1	7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	1481	129	210	229	308	280	336	385
TDS (mg/L)	1028	1040	165	198	192	176	186	218
TSS (mg/L)	5	<1	2092	948	<1	16	17	11
Turbidity (NTU)	2.5	0.23	800	460	1.4	9.5	6.5	6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.72	1.37	6.18	3.89	1.38	0.38	0.54	-0.47
Gross Alpha (CE+/-)	1.20	2.10	2.20	1.90	1.60	1.20	1.10	1.50
Gross Beta (pCi/L)	89.39	24.60	11.60	11.59	1.40	5.53	2.49	1.46
Gross Beta (CE+/-)	6.60	4.00	3.80	3.80	3.40	3.60	3.40	2.90
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-095				GW-101		GW-115	
	BG				S3		S3	
	03/19/91	06/18/91	09/23/91	12/16/91	01/12/91	04/14/91	01/05/91	04/03/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.8	0.7	0.6	1.7	5.4	4.6	2.1	1.4
pH, Field (pH units)	9.1	8.9	9.3	9	6.5	6.6	7.3	7.4
Redox, Field (mV)	198	44	63	75	415	330	240	-55
Sp. Cond., Field (umho/cm)	455	510	518	418	15830	9330	426	459
Temp, Field (degrees C)	14.3	16.8	14.2	12.3	15	15.7	16.1	16.5
pH, 1 (pH units)	8.6	9.1	8.9	9.1	6.5	7.1	6.9	7.4
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	486	532	537	534	14227	11546	381	401
TDS (mg/L)	292	320	336	328	10722	7898	262	270
TSS (mg/L)	<1	<1	<1	2	226	81	<1	1
Turbidity (NTU)	0.22	0.15	0.27	0.4	85	32	3	3.8
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.22	1.66	1.37	-2.97	23.41	10.06	1.57	1.45
Gross Alpha (CE+/-)	1.00	1.40	1.20	2.00	16.80	14.60	1.20	1.10
Gross Beta (pCi/L)	1.88	0.39	3.26	-6.26	43.72	41.52	2.02	6.79
Gross Beta (CE+/-)	3.10	3.40	3.60	2.90	38.10	33.60	3.40	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	57.00	126.00
Technetium 99 (CE+/-)	.	.	.	.	.	.	1600.00	1600.00
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	0.00	-0.43
Uranium 234 (CE+/-)	.	.	.	.	.	.	1.50	0.90
Uranium 235 (pCi/L)	.	.	.	.	.	.	0.00	0.00
Uranium 235 (CE+/-)	.	.	.	.	.	.	1.50	1.50
Uranium 238 (pCi/L)	.	.	.	.	.	.	0.42	0.00
Uranium 238 (CE+/-)	.	.	.	.	.	.	0.80	1.50

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-074		GW-075				GW-076	
	OLF		OLF				OLF	
	08/26/91	10/21/91	01/28/91	05/10/91	08/27/91	10/25/91	01/26/91	05/09/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.5	0.3	1.5	0.8	0.6	1	3.6	1.4
pH, Field (pH units)	8.7	9.2	9.2	9.2	8.5	9.3	8.1	8
Redox, Field (mV)	96	-138	87	-63	37	-152	128	95
Sp. Cond., Field (umho/cm)	487	492	804	1060	941	919	356	351
Temp, Field (degrees C)	16.5	16.4	15.2	16.9	17.6	15.8	12.5	16.1
pH, 1 (pH units)	9.4	7.8	9.1	7.1	9.1	8.9	7.1	6.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	570	1118	877	971	1090	1017	301	340
TDS (mg/L)	328	324	612	632	638	602	174	218
TSS (mg/L)	2	<1	8	5	6	8	1	2
Turbidity (NTU)	0.4	0.7	2.8	1.4	1.3	1.7	0.25	0.4
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.14	2.04	0.98	0.94	2.69	1.59	1.03	0.31
Gross Alpha (CE+/-)	1.40	1.70	1.40	1.50	1.70	2.40	1.50	1.00
Gross Beta (pCi/L)	-2.50	2.44	7.28	2.51	2.55	4.97	8.57	4.36
Gross Beta (CE+/-)	3.00	2.70	3.60	3.30	3.30	3.00	3.60	3.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-077		GW-078		GW-079		GW-080	
	BG		BG		BG		BG	
	02/27/91	06/05/91	02/27/91	06/05/91	02/23/91	06/04/91	02/23/91	05/24/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.1	2.6	2.5	2	1.5	0.7	3.4	1.6
pH, Field (pH units)	7.5	7.7	7.6	7.8	7.9	8.2	5.6	6.1
Redox, Field (mV)	249	-3	248	81	246	130	366	142
Sp. Cond., Field (umho/cm)	311	283	286	275	184	219	72	96
Temp, Field (degrees C)	13.5	15.1	13.5	14.7	9.6	15.5	12.7	15.3
pH, 1 (pH units)	6.9	6	6.9	6	6.7	5.9	6	3.1
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	300	280	286	280	164	213	<50	88
TDS (mg/L)	202	172	188	172	130	120	142	106
TSS (mg/L)	<1	6	1	4	6	4	1550	1818
Turbidity (NTU)	1.5	2.5	1.9	0.55	4.8	3.8	750	480
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.25	0.66	2.51	1.92	1.34	0.34	4.43	2.09
Gross Alpha (CE+/-)	1.10	1.20	1.50	1.40	1.30	1.00	1.70	1.50
Gross Beta (pCi/L)	0.20	1.07	4.45	5.03	0.37	-1.51	8.59	9.40
Gross Beta (CE+/-)	3.20	3.30	3.50	3.50	3.30	3.20	3.70	3.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	0.00	-0.43	0.00	0.00
Uranium 234 (CE+/-)	.	.	.	.	1.90	0.90	1.70	1.50
Uranium 235 (pCi/L)	.	.	.	.	0.00	0.00	0.00	0.00
Uranium 235 (CE+/-)	.	.	.	.	1.60	1.50	1.50	1.50
Uranium 238 (pCi/L)	.	.	.	.	0.00	0.00	0.44	-0.84
Uranium 238 (CE+/-)	.	.	.	.	1.60	1.50	0.90	1.20

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-123				GW-125			
	S3				S3			
	03/25/91	04/06/91	07/12/91	10/04/91	03/25/91	04/06/91	07/12/91	10/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.2	1.6	4.4	1.2	2.6	1.9	7.5	1.1
pH, Field (pH units)	9.5	9.9	9.7	9.5	9.8	10	10.1	10.1
Redox, Field (mV)	-6	-237	-203	-125	-34	-140	-74	-31
Sp. Cond., Field (umho/cm)	1809	1779	1722	1611	2020	2120	1440	1811
Temp, Field (degrees C)	15.6	15.5	19	16.1	16.2	17.8	22.6	18.8
pH, 1 (pH units)	9.6	9.6	9.9	9.6	9.9	9.8	9.9	9.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	1683	1749	192	1885	1913	2008	2250	2120
TDS (mg/L)	1148	1110	1138	1092	1310	1174	1328	1132
TSS (mg/L)	20	12	14	20	18	14	8	25
Turbidity (NTU)	13	5.7	6	6	5.4	4	6.9	8.8
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-1.04	0.88	-0.11	1.41	6.60	5.27	0.39	1.29
Gross Alpha (CE+/-)	2.70	0.90	2.10	1.40	2.20	1.60	2.20	1.40
Gross Beta (pCi/L)	10.55	7.99	11.09	10.50	40.90	9.60	9.93	10.60
Gross Beta (CE+/-)	7.30	3.40	6.80	3.50	5.20	3.50	6.70	3.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-162		GW-163		GW-164		GW-209	
	BG		BG		BG		EXP	
	02/28/91	06/11/91	03/02/91	06/12/91	03/05/91	06/13/91	02/23/91	06/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	8	6.4	2.2	9.3	1.6	0.5	6.5	5.3
pH, Field (pH units)	8	7.4	8.5	9.2	8	7.7	4.6	5.6
Redox, Field (mV)	249	224	167	97	239	234	445	228
Sp. Cond., Field (umho/cm)	253	273	338	344	313	346	37	39
Temp, Field (degrees C)	15.2	16	15	19	15.6	17.1	12.6	15.8
pH, 1 (pH units)	6.9	5.3	7.5	5.9	7.6	6	5.9	3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	252	234	323	302	352	323	<50	50
TDS (mg/L)	168	134	240	200	216	230	46	66
TSS (mg/L)	4	3	24	11	<1	1	574	278
Turbidity (NTU)	16	3.4	20	22	2.7	1.6	550	130
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.99	0.03	1.01	1.27	2.30	1.84	3.99	3.42
Gross Alpha (CE+/-)	1.00	1.20	1.00	1.40	1.30	1.50	1.80	1.60
Gross Beta (pCi/L)	4.60	-1.05	5.71	0.95	6.45	-0.26	7.04	2.99
Gross Beta (CE+/-)	3.30	3.30	3.40	3.40	3.40	3.30	3.60	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	-0.44	-0.44	-0.43	0.41	0.41	2.87	.	.
Uranium 234 (CE+/-)	0.90	0.90	0.90	1.40	1.40	2.50	.	.
Uranium 235 (pCi/L)	0.00	-0.44	0.00	0.00	0.41	-0.41	.	.
Uranium 235 (CE+/-)	1.50	0.90	1.50	1.60	0.80	0.80	.	.
Uranium 238 (pCi/L)	0.00	0.44	0.00	4.50	0.41	0.41	.	.
Uranium 238 (CE+/-)	1.50	1.50	1.50	3.40	0.80	1.40	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-243		GW-286		GW-287		GW-290	
Location	S3		BG		BG		BG	
Date Sampled	08/06/91	10/11/91	09/14/91	11/23/91	09/14/91	11/23/91	03/21/91	06/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.1	0.4	1.3	0.9	4	2.3	2.4	5.1
pH, Field (pH units)	3.8	3.6	7.6	7.6	6.9	7.2	8	7.6
Redox, Field (mV)	374	382	83	91	141	106	278	150
Sp. Cond., Field (umho/cm)	29700	29800	251	273	226	282	405	448
Temp, Field (degrees C)	20.2	17.4	19.5	15	21	15.5	23.8	16.8
pH, 1 (pH units)	4	3.9	7.9	7.6	7.3	7.1	7	7.5
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	32200	27200	258	291	215	253	438	495
TDS (mg/L)	33258	33422	158	194	142	166	284	284
TSS (mg/L)	65	54	<1	45	12	3	4	7
Turbidity (NTU)	12	8.4	0.85	44	14	5.1	0.48	5.2
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1060.00	12400.00	2.19	2.75	1.05	2.61	1.70	1.02
Gross Alpha (CE+/-)	70.00	690.00	1.30	1.90	1.10	1.90	1.10	1.40
Gross Beta (pCi/L)	7470.00	59800.00	2.25	0.08	2.44	0.99	10.66	3.53
Gross Beta (CE+/-)	170.00	1000.00	3.16	2.80	3.10	2.90	3.60	3.60
Americium 241 (pCi/L)	.	27.00	.	.	.	.	.	.
Americium 241 (CE+/-)	.	8.80	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	800.00	394.00	.	.	.	.	.	.
Neptunium 237 (CE+/-)	83.00	80.10	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	241.00	147.00	.	.	.	.	.	.
Strontium (CE+/-)	42.00	11.00	.	.	.	.	.	.
Technetium 99 (pCi/L)	68700.00	80400.00	.	.	.	.	.	.
Technetium 99 (CE+/-)	3000.00	3200.00	.	.	.	.	.	.
Tritium (Bq/L)	150.00	200.00	.	.	.	.	.	.
Tritium (CE+/-)	30.00	40.00	.	.	.	.	.	.
Uranium 234 (pCi/L)	4650.00	3140.00	.	.	.	.	.	.
Uranium 234 (CE+/-)	200.00	240.00	.	.	.	.	.	.
Uranium 235 (pCi/L)	365.00	178.00	.	.	.	.	.	.
Uranium 235 (CE+/-)	56.00	60.00	.	.	.	.	.	.
Uranium 238 (pCi/L)	13600.00	7550.00	.	.	.	.	.	.
Uranium 238 (CE+/-)	340.00	370.00	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-291		GW-306		GW-307		GW-308	
Location	BG		RS		RS		RS	
Date Sampled	03/24/91	06/21/91	01/14/91	04/26/91	01/14/91	04/26/91	01/14/91	04/30/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	3.5	1.8	1.4	2.6	0.8	3.3	0.4	0.8
pH, Field (pH units)	6.7	7.1	6.9	7	6.6	6.5	6.7	6.7
Redox, Field (mV)	296	175	303	296	300	280	318	298
Sp. Cond., Field (umho/cm)	439	395	592	647	735	875	727	992
Temp, Field (degrees C)	16	20.1	13.6	18.2	14.1	16.2	14.7	15.8
pH, 1 (pH units)	6.7	6.8	7	7	6.8	6.7	6.8	6.6
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	419	463	682	634	846	906	926	971
TDS (mg/L)	222	266	426	374	536	540	630	636
TSS (mg/L)	5	9	4	6	14	3	127	30
Turbidity (NTU)	4.8	3.5	3.6	3	10	2.4	75	32
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.25	0.73	1.35	2.71	0.38	3.60	4.81	2.66
Gross Alpha (CE+/-)	1.20	1.20	1.50	1.70	1.40	1.80	2.00	1.70
Gross Beta (pCi/L)	6.06	2.78	24.14	12.49	31.65	27.17	32.06	16.92
Gross Beta (CE+/-)	3.30	3.10	4.70	3.80	5.00	4.50	5.00	4.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	0.02	14.50	.	.	.	.
Cesium 137 (CE+/-)	.	.	0.03	31.80	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	0.01	0.10	0.10	0.01	0.01	0.10
Iodine 125 + 129 (CE+/-)	.	.	0.76	1.30	1.50	0.75	0.71	1.50
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	-0.66	-29.50	.	.	.	.
Strontium (CE+/-)	.	.	1.50	31.00	.	.	.	.
Technetium 99 (pCi/L)	.	.	2040.00	-434.00	.	.	.	.
Technetium 99 (CE+/-)	.	.	1600.00	1600.00	.	.	.	.
Tritium (Bq/L)	.	.	11.00	7.00	10.00	13.00	14.00	38.00
Tritium (CE+/-)	.	.	33.00	33.00	33.00	22.00	33.00	28.00
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-210		GW-211		GW-225			
	EXP		EXP		OLF			
	02/23/91	06/05/91	02/26/91	06/06/91	02/21/91	05/17/91	08/31/91	11/01/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2	5.8	0.2	0.4	0.6	0.7	1	1.4
pH, Field (pH units)	8.6	8.5	7.5	7.7	7.4	7.2	7.4	7
Redox, Field (mV)	-1	190	25	10	280	121	-8	195
Sp. Cond., Field (umho/cm)	319	354	1432	1257	951	1181	1192	1041
Temp, Field (degrees C)	14.5	16	14.4	15.3	13.8	15.4	16.2	14.3
pH, 1 (pH units)	7.2	5.2	6.7	5.6	6.7	6.4	7.3	6.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	308	241	1550	1513	1261	1236	1229	1154
TDS (mg/L)	158	218	1308	1356	822	828	854	698
TSS (mg/L)	7	29	6	14	<1	1	<1	2
Turbidity (NTU)	4.5	4	26	50	1.5	1	0.4	0.65
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.90	-0.17	-0.45	2.15	1.84	3.70	2.73	6.63
Gross Alpha (CE+/-)	1.40	1.10	2.00	1.50	1.60	1.70	1.60	2.60
Gross Beta (pCi/L)	5.49	3.48	-22.29	8.03	42.29	33.78	29.90	23.20
Gross Beta (CE+/-)	3.60	3.40	5.10	3.70	5.10	4.80	4.60	3.80
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-226		GW-227				GW-243	
	OLF		OLF				S3	
	02/08/91	05/13/91	02/08/91	05/12/91	08/31/91	11/01/91	01/22/91	04/18/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.5	1.4	2	0.9	1	1.5	1.8	5
pH, Field (pH units)	6.4	6	6.8	6.6	6.7	6.9	3.5	3.7
Redox, Field (mV)	51	3	272	189	50	188	403	482
Sp. Cond., Field (umho/cm)	1183	1414	747	927	736	852	33300	28000
Temp, Field (degrees C)	12.8	17.2	12.5	14.5	15.5	14.4	14.2	18.5
pH, 1 (pH units)	6.5	6.3	6.7	6.4	7.1	6.9	3.7	.
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	1161	1241	720	777	821	954	30200	.
TDS (mg/L)	726	792	464	478	482	570	33058	.
TSS (mg/L)	66	66	1	2	2	11	53	.
Turbidity (NTU)	85	70	2	4.4	1.8	5.9	15	.
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	22.19	33.86	28.34	17.04	8.21	9.42	12000.00	15000.00
Gross Alpha (CE+/-)	3.30	4.00	3.70	3.10	2.20	2.80	770.00	830.00
Gross Beta (pCi/L)	41.44	32.61	80.07	64.70	49.80	51.70	38000.00	75000.00
Gross Beta (CE+/-)	5.00	4.80	6.30	5.80	5.30	4.90	1300.00	1700.00
Americium 241 (pCi/L)	.	.	.	.	-0.54	.	.	27.78
Americium 241 (CE+/-)	.	.	.	.	0.03	.	.	11.50
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	0.10	0.10
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	2.00	2.00
Neptunium 237 (pCi/L)	.	.	.	.	2.04	.	41.70	1090.00
Neptunium 237 (CE+/-)	.	.	.	.	1.80	.	59.00	310.00
Plutonium 238 (pCi/L)	.	.	.	.	.	.	-0.16	-20.50
Plutonium 238 (CE+/-)	.	.	.	.	.	.	0.23	41.00
Plutonium 239 (pCi/L)	.	.	.	.	.	.	0.00	41.00
Plutonium 239 (CE+/-)	.	.	.	.	.	.	0.29	120.00
Strontium (pCi/L)	.	.	.	.	-2.57	.	0.56	225.00
Strontium (CE+/-)	.	.	.	.	3.50	.	1.70	51.00
Technetium 99 (pCi/L)	.	.	.	.	-487.00	.	68500.00	68900.00
Technetium 99 (CE+/-)	.	.	.	.	1600.00	.	2900.00	3000.00
Tritium (Bq/L)	.	.	.	.	3.00	.	170.00	160.00
Tritium (CE+/-)	.	.	.	.	35.00	.	40.00	30.00
Uranium 234 (pCi/L)	.	.	.	.	.	.	4270.00	303.00
Uranium 234 (CE+/-)	.	.	.	.	.	.	2000.00	170.00
Uranium 235 (pCi/L)	.	.	.	.	.	.	475.00	454.00
Uranium 235 (CE+/-)	.	.	.	.	.	.	670.00	200.00
Uranium 238 (pCi/L)	.	.	.	.	.	.	9020.00	800.00
Uranium 238 (CE+/-)	.	.	.	.	.	.	3000.00	260.00

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-309				GW-310		GW-311	
	RS				RS		RS	
	01/13/91	04/25/91	08/13/91	10/23/91	01/15/91	04/30/91	01/13/91	04/26/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.4	0.5	0.7	0.5	1.3	0.6	6.1	9
pH, Field (pH units)	6.4	6.6	6.4	6.5	6.1	6.3	7.3	7.6
Redox, Field (mV)	308	252	293	170	317	317	348	205
Sp. Cond., Field (umho/cm)	982	1020	1120	895	753	673	371	353
Temp, Field (degrees C)	14.8	16.6	16.8	15.8	14.1	14.9	12.6	17.1
pH, 1 (pH units)	6.8	6.8	7.1	6.7	6.6	6.4	7	7.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	1038	1075	1182	962	720	663	339	369
TDS (mg/L)	630	648	634	670	438	436	216	226
TSS (mg/L)	1	<1	1	1	3	6	1	1
Turbidity (NTU)	1.1	0.2	0.3	0.42	3.5	4.5	2.2	1.5
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.23	1.08	3.34	1.17	1.04	1.96	2.17	2.88
Gross Alpha (CE+/-)	1.70	1.50	1.60	1.50	1.50	1.50	1.70	1.80
Gross Beta (pCi/L)	46.09	39.43	57.08	21.10	38.85	23.14	0.21	4.34
Gross Beta (CE+/-)	5.50	4.90	5.60	3.70	5.20	4.40	3.60	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	0.00	0.89	.	.	.	.	.	.
Cesium 137 (CE+/-)	0.03	36.30	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	0.10	0.01	.	.	0.01	0.10	0.01	0.10
Iodine 125 + 129 (CE+/-)	1.60	0.74	.	.	0.78	1.40	0.75	1.50
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	2.07	-10.10	.	.	.	.	.	.
Strontium (CE+/-)	1.80	32.00	.	.	.	.	.	.
Technetium 99 (pCi/L)	1880.00	-776.00	.	.	.	.	.	.
Technetium 99 (CE+/-)	1600.00	1600.00	.	.	.	.	.	.
Tritium (Bq/L)	-5.00	9.00	.	.	-4.00	18.00	-3.00	-2.00
Tritium (CE+/-)	32.00	22.00	.	.	32.00	25.00	32.00	21.00
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-312		GW-313				GW-314	
	RS		SPI				SPI	
	01/14/91	04/26/91	01/09/91	04/09/91	07/18/91	10/05/91	01/08/91	04/08/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.5	1.7	2.6	2.6	2.6	1.7	4	4
pH, Field (pH units)	12.1	11.9	6.5	6.9	7	6.8	6.8	7.2
Redox, Field (mV)	31	135	272	312	224	177	337	261
Sp. Cond., Field (umho/cm)	2140	2080	615	564	595	590	420	496
Temp, Field (degrees C)	13.1	16	12.8	16.1	16.5	15.7	13.1	15.8
pH, 1 (pH units)	12.5	11.7	6.9	7.2	7.5	7.1	7	7.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	839	802	517	369	612	669	451	394
TDS (mg/L)	438	374	306	324	312	390	272	264
TSS (mg/L)	19	52	<1	2	2	5	<1	<1
Turbidity (NTU)	6.4	4.5	1.3	2	1.5	2.3	1.2	0.2
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.09	3.03	0.27	-0.11	1.68	1.03	1.27	2.24
Gross Alpha (CE+/-)	1.50	1.80	1.00	1.10	1.30	1.40	1.20	1.20
Gross Beta (pCi/L)	13.57	16.25	2.22	4.62	3.68	10.80	9.07	5.36
Gross Beta (CE+/-)	4.20	4.00	3.30	3.30	3.30	3.60	3.70	3.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	0.10	0.10	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	1.40	1.20	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	-4.00	39.00	.	.	.	.	.	.
Tritium (CE+/-)	32.00	27.00	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-314		GW-315				GW-316	
	SPI		SPI				SPI	
	07/20/91	10/05/91	01/08/91	04/08/91	07/20/91	10/05/91	01/08/91	04/08/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.8	3.8	4	4.4	2.4	2.8	7.8	8
pH, Field (pH units)	6.9	7.1	6.9	7.2	6.9	6.9	7.5	7.7
Rador, Field (mV)	229	169	324	328	240	207	336	313
Sp. Cond., Field (umho/cm)	549	534	408	499	611	687	346	362
Temp, Field (degrees C)	17	16.7	13.5	16	17.7	16.3	10.3	15.8
pH, 1 (pH units)	7.6	7.2	6.9	7.1	7.4	7.3	6.9	7.3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	699	601	437	369	740	788	325	312
TDS (mg/L)	394	344	260	282	472	518	192	184
TSS (mg/L)	<1	4	<1	<1	1	5	5	3
Turbidity (NTU)	0.8	0.18	1.2	0.7	0.7	0.14	2.9	2.9
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	3.13	2.19	0.40	0.78	5.29	2.65	2.06	3.01
Gross Alpha (CE+/-)	1.60	1.50	1.00	0.80	1.90	1.60	1.30	1.30
Gross Beta (pCi/L)	71.38	22.30	8.57	17.10	108.55	159.00	3.07	6.71
Gross Beta (CE+/-)	6.30	4.10	3.70	3.80	7.40	8.20	3.40	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-316		GW-317				GW-323	
	SPI		SPI				SPI	
	07/18/91	10/05/91	01/06/91	04/06/91	07/10/91	10/03/91	01/06/91	04/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	7.2	7.9	7.1	9.1	2.9	3.9	7.6	9
pH, Field (pH units)	7.4	7.5	7.8	7.9	8	7.8	7.5	7.4
Redox, Field (mV)	225	196	325	160	180	189	339	185
Sp. Cond., Field (umho/cm)	376	371	371	388	295	333	367	398
Temp, Field (degrees C)	17.6	16	12.7	14.2	19.4	19.6	11.6	15.4
pH, 1 (pH units)	8.1	7.6	7	7	8.1	7.9	6.9	7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	382	374	325	358	419	405	350	358
TDS (mg/L)	204	188	224	216	298	196	222	230
TSS (mg/L)	2	7	<1	1	<1	3	<1	1
Turbidity (NTU)	2	3	1	1.4	0.45	0.48	0.34	0.33
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.98	0.35	1.81	0.75	2.24	1.69	2.90	1.61
Gross Alpha (CE+/-)	1.20	1.20	1.30	0.80	1.50	1.10	1.50	1.00
Gross Beta (pCi/L)	2.82	2.35	2.59	4.84	2.73	-1.42	3.07	8.80
Gross Beta (CE+/-)	3.20	3.10	3.40	3.20	3.20	3.10	3.40	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	5.00	.	.	.	.	.	.
Tritium (CE+/-)	.	30.00	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	0.48	0.00	.	.	.	.
Uranium 234 (CE+/-)	.	.	0.90	1.50	.	.	.	.
Uranium 235 (pCi/L)	.	.	0.00	0.00	.	.	.	.
Uranium 235 (CE+/-)	.	.	1.60	1.50	.	.	.	.
Uranium 238 (pCi/L)	.	.	0.48	0.00	.	.	.	.
Uranium 238 (CE+/-)	.	.	0.90	1.50	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-323		GW-324		GW-325		GW-342	
Location	SPI		S3		S3		BG	
Date Sampled	07/03/91	10/03/91	01/05/91	04/03/91	01/05/91	04/04/91	03/06/91	06/13/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	7.6	3.9	0.8	0.4	5.8	8	3.8	0.5
pH, Field (pH units)	7.2	7.5	8.2	8.2	5.4	5.6	6.5	6.3
Redox, Field (mV)	237	186	267	-59	395	62	245	-32
Sp. Cond., Field (umho/cm)	781	334	197	219	43	62	103	122
Temp, Field (degrees C)	15.6	15.1	13.3	17	13.3	17.5	14.6	16.7
pH, 1 (pH units)	8.1	7.8	6.6	6.8	5.5	5.5	6.4	3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	410	397	157	191	<50	<50	100	109
TDS (mg/L)	214	204	118	120	42	<1	86	88
TSS (mg/L)	1	6	<1	<1	13	1	20	416
Turbidity (NTU)	1.5	0.45	0.45	6.9	6.2	2.3	7.6	105
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.91	3.95	0.91	2.31	2.60	1.49	0.79	6.98
Gross Alpha (CE+/-)	1.40	1.50	1.10	1.30	1.40	1.00	1.50	2.10
Gross Beta (pCi/L)	1.41	5.78	-0.41	4.72	3.89	4.75	4.50	9.97
Gross Beta (CE+/-)	3.20	3.60	3.20	3.20	3.50	3.20	3.50	3.80
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	0.00	0.48	0.00	0.00	0.42	-0.42
Uranium 234 (CE+/-)	.	.	1.40	1.60	1.50	1.50	0.80	0.80
Uranium 235 (pCi/L)	.	.	0.00	0.00	0.00	0.00	-0.42	-0.42
Uranium 235 (CE+/-)	.	.	1.40	1.60	1.50	1.50	0.80	0.80
Uranium 238 (pCi/L)	.	.	0.00	0.48	0.00	0.00	0.00	0.00
Uranium 238 (CE+/-)	.	.	1.40	1.00	1.50	1.50	1.40	1.70

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-342		GW-343				GW-344	
	BG		BG				BG	
	09/05/91	11/05/91	03/07/91	06/14/91	09/05/91	11/07/91	03/09/91	06/15/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4	2	0.2	4.3	3	4	0.4	1.8
pH, Field (pH units)	6.5	6.6	7.8	7.6	7.5	7.6	7.8	7.9
Redox, Field (mV)	31	69	206	270	170	52	202	-156
Sp. Cond., Field (umho/cm)	120	103	213	259	250	277	287	354
Temp, Field (degrees C)	18	14.1	15	19.7	17.2	14.3	14.4	17.2
pH, 1 (pH units)	6.6	6.8	7.3	8.3	7.7	7.7	7	8.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	95	124	278	238	284	291	275	310
TDS (mg/L)	94	108	170	176	144	190	196	188
TSS (mg/L)	114	554	14	11	12	318	6	3
Turbidity (NTU)	85	125	45	35	21	600	8.1	2.5
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	4.97	2.07	0.63	1.40	0.39	2.47	1.42	-0.15
Gross Alpha (CE+/-)	1.80	1.90	1.50	1.40	1.20	2.20	1.60	1.10
Gross Beta (pCi/L)	8.76	2.65	1.29	2.96	6.12	8.58	7.48	0.80
Gross Beta (CE+/-)	3.40	3.00	3.40	3.50	3.30	3.40	3.70	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	0.00	-0.42	.	.	0.42	-0.44
Uranium 234 (CE+/-)	.	.	1.50	0.80	.	.	0.80	0.90
Uranium 235 (pCi/L)	.	.	-0.43	-0.42	.	.	-0.42	-0.44
Uranium 235 (CE+/-)	.	.	0.90	0.80	.	.	0.80	0.90
Uranium 238 (pCi/L)	.	.	0.00	-0.42	.	.	0.00	-0.44
Uranium 238 (CE+/-)	.	.	1.50	0.60	.	.	1.40	0.90

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APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-344		GW-345		GW-347			GW-348
Location	BG		S3		S3			S3
Date Sampled	09/08/91	11/07/91	01/16/91	04/14/91	04/04/91	07/02/91	10/02/91	04/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.5	0.8	4.7	4	9.1	7.8	7	1.9
pH, Field (pH units)	8	7.9	5.3	4.8	6.9	6.8	7.1	6.8
Redox, Field (mV)	-120	-93	476	377	179	255	203	220
Sp. Cond., Field (umho/cm)	298	282	182	117	188	182	183	497
Temp, Field (degrees C)	17	12.3	13.3	16.7	16.4	18.4	16.6	14.7
pH, 1 (pH units)	7.9	8.2	6.3	6.4	6.5	7.8	7.4	7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	305	306	3017	433	140	203	316	484
TDS (mg/L)	186	196	424	308	96	166	192	264
TSS (mg/L)	<1	3	3	4	37	16	4	<1
Turbidity (NTU)	1.5	4.6	1.8	1.4	31	5.5	18	2.6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.39	0.46	3.12	1.13	2.09	1.07	1.17	2.54
Gross Alpha (CE+/-)	1.10	1.60	1.70	1.00	1.10	1.30	1.00	1.20
Gross Beta (pCi/L)	8.44	3.23	55.85	44.34	7.65	3.99	4.99	35.56
Gross Beta (CE+/-)	3.70	3.00	5.80	5.10	3.30	3.30	3.50	4.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-348		GW-364				GW-365	
	S3		OLF				OLF	
	07/02/91	10/02/91	02/07/91	05/12/91	08/28/91	10/28/91	02/09/91	05/14/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.6	1.9	5.1	5.5	0.6	1.5	0.1	0.2
pH, Field (pH units)	7.2	7.3	7.4	7	7.2	6.9	7.2	7.3
Redox, Field (mV)	225	177	333	295	193	162	-22	-49
Sp. Cond., Field (umho/cm)	541	478	605	699	564	572	732	963
Temp, Field (degrees C)	16.1	15.8	13.3	17	16.3	15.4	13.5	14.3
pH, 1 (pH units)	7.9	7.7	6.8	6.4	7.5	7.2	6.8	6.5
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	544	550	563	609	685	666	793	838
TDS (mg/L)	318	320	658	.	484	388	510	548
TSS (mg/L)	2	<1	396	373	160	12	2	2
Turbidity (NTU)	2	1.7	400	300	175	26	8.4	11
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.91	1.74	5.13	1.39	4.06	0.17	1.14	3.43
Gross Alpha (CE+/-)	1.30	1.10	1.90	1.50	1.80	1.80	1.30	1.60
Gross Beta (pCi/L)	29.79	34.95	8.18	6.34	15.30	3.36	3.44	3.49
Gross Beta (CE+/-)	4.60	4.90	3.60	3.50	3.90	2.90	3.40	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	-422.00	114.00	.	.	3500.00	617.00
Technetium 99 (CE+/-)	.	.	1600.00	1600.00	.	.	1700.00	1600.00
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-365		GW-366				GW-367	
	OLF		OLF				OLF	
	08/28/91	10/29/91	02/01/91	05/11/91	08/27/91	10/25/91	02/02/91	05/11/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.4	0.1	6.9	6.3	5.5	4.3	4.5	4.1
pH, Field (pH units)	6.9	6.9	7.2	7	7	6.8	7.6	7.6
Redox, Field (mV)	-24	-64	306	243	194	150	301	227
Sp. Cond., Field (umho/cm)	829	861	459	558	460	514	364	393
Temp, Field (degrees C)	19.8	14.9	12.7	13.8	15.4	17.2	13.1	14.4
pH, 1 (pH units)	7.4	7.1	6.9	6.5	7.4	7.4	6.8	6.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	917	912	479	480	595	567	329	333
TDS (mg/L)	500	532	314	342	302	306	208	228
TSS (mg/L)	2	2	59	128	106	6	<1	<1
Turbidity (NTU)	2.9	3.2	60	80	75	7.8	0.45	0.75
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.00	3.10	1.84	2.29	2.13	2.07	5.03	2.94
Gross Alpha (CE+/-)	1.30	2.00	1.40	1.70	1.60	2.00	1.80	1.80
Gross Beta (pCi/L)	6.07	6.10	4.94	6.28	4.00	5.49	7.35	8.88
Gross Beta (CE+/-)	3.40	2.90	3.60	3.50	3.40	3.00	3.70	3.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	445.00	-1940.00	.	.	-1930.00	-1190.00
Technetium 99 (CE+/-)	.	.	1600.00	1600.00	.	.	1600.00	1600.00
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-369		GW-370				GW-371	
	OLF		BG				BG	
	02/10/91	05/15/91	02/28/91	06/10/91	09/09/91	11/14/91	09/09/91	11/14/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	7.2	12.4	3.9	3.1	3.4	3	6.5	4.8
pH, Field (pH units)	9.1	8.3	6.7	6.1	7.1	7.5	7.3	7.6
Redox, Field (mV)	216	148	310	321	223	6	-55	-68
Sp. Cond., Field (umho/cm)	397	526	219	191	214	277	499	625
Temp, Field (degrees C)	12.5	18.1	14.7	18.4	17.1	14.3	17.5	14.3
pH, 1 (pH units)	7.4	5.2	6.8	5.3	7	8.1	7.4	7.8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	430	419	193	216	233	253	591	595
TDS (mg/L)	284	302	268	192	210	180	366	338
TSS (mg/L)	83	93	240	54	50	16	4	18
Turbidity (NTU)	100	60	220	36	30	14	17	48
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.75	2.54	5.05	1.69	4.32	3.47	1.41	1.64
Gross Alpha (CE+/-)	1.40	1.50	1.70	1.40	1.70	2.10	1.30	2.00
Gross Beta (pCi/L)	13.03	20.43	5.13	5.05	5.04	1.82	1.37	1.50
Gross Beta (CE+/-)	3.90	4.20	3.30	3.50	3.50	2.90	3.30	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-372				GW-373			
	BG				BG			
	02/22/91	05/23/91	09/04/91	11/02/91	02/22/91	05/23/91	09/04/91	11/02/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.4	6.9	3.8	7.2	3	2.1	9.3	9.2
pH, Field (pH units)	7	7	7.6	7.2	9.2	8.7	8.4	8.9
Redox, Field (mV)	273	287	208	166	193	203	188	136
Sp. Cond., Field (umho/cm)	387	409	394	382	423	481	446	470
Temp. Field (degrees C)	14.1	16.5	17.7	14.5	14.1	16.2	16.1	13.1
pH, 1 (pH units)	6.8	6.3	7.8	7.5	7.9	6.5	9.1	8.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	287	370	430	440	398	455	499	501
TDS (mg/L)	274	258	262	262	310	292	300	304
TSS (mg/L)	13	21	15	17	3	23	18	6
Turbidity (NTU)	7.7	14	16	17	4.6	14	14	4
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.08	1.82	2.39	2.45	1.15	2.38	1.81	0.52
Gross Alpha (CE+/-)	1.50	1.40	1.50	1.70	1.50	1.50	1.40	1.40
Gross Beta (pCi/L)	1.61	1.52	4.18	5.01	1.20	2.21	2.05	1.43
Gross Beta (CE+/-)	3.30	3.30	3.20	2.80	3.30	3.30	3.00	2.60
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	0.43	1.32	.	.	0.00	0.00	.	.
Uranium 234 (CE+/-)	0.90	1.50	.	.	1.50	1.50	.	.
Uranium 235 (pCi/L)	0.43	0.44	.	.	0.00	0.00	.	.
Uranium 235 (CE+/-)	0.90	0.90	.	.	1.50	1.50	.	.
Uranium 238 (pCi/L)	0.00	-0.88	.	.	-0.44	-0.87	.	.
Uranium 238 (CE+/-)	1.70	1.20	.	.	0.90	1.20	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-520				GW-526			
	OLF				S3			
	03/25/91	05/12/91	08/27/91	10/24/91	01/16/91	04/13/91	08/02/91	10/06/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.7	8.8	6.1	8	6.3	6.7	5.7	7.4
pH, Field (pH units)	10	10.7	10.6	10.6	8.3	8.4	8.5	8.5
Redox, Field (mV)	2	166	40	45	295	248	192	178
Sp. Cond., Field (umho/cm)	345	743	611	606	5910	5390	5680	5810
Temp, Field (degrees C)	14.2	15.8	15.7	14	13.5	15	16.2	16.7
pH, 1 (pH units)	7.2	6.9	11.1	11	6.6	6.7	7.7	8.1
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	244	279	590	489	6837	6940	6660	6480
TDS (mg/L)	192	292	290	280	5384	5250	5270	5310
TSS (mg/L)	22	14	5	390	3	5	7	20
Turbidity (NTU)	8.4	6.8	1.2	185	3.3	4.6	7.7	18
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.82	2.00	1.56	0.97	0.08	8.84	9.17	7.47
Gross Alpha (CE+/-)	1.30	1.60	1.50	1.90	1.20	9.30	14.00	6.00
Gross Beta (pCi/L)	9.31	10.56	6.10	6.76	-1.59	17.78	-2.04	4.29
Gross Beta (CE+/-)	3.80	3.70	3.50	3.10	3.40	31.90	31.00	12.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	0.86
Americium 241 (CE+/-)	.	.	.	.	.	.	.	1.70
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	0.00	0.87
Neptunium 237 (CE+/-)	.	.	.	.	.	.	3.00	1.20
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	-9.92	0.71
Strontium (CE+/-)	.	.	.	.	.	.	21.00	3.80
Technetium 99 (pCi/L)	-2790.00	-2760.00	.	.	.	.	1100.00	-175.00
Technetium 99 (CE+/-)	1600.00	1600.00	.	.	.	.	1600.00	640.00
Tritium (Bq/L)	.	.	.	.	.	.	3100.00	1.00
Tritium (CE+/-)	.	.	.	.	.	.	100.00	10.00
Uranium 234 (pCi/L)	.	.	.	.	.	.	0.00	-0.43
Uranium 234 (CE+/-)	.	.	.	.	.	.	3.00	0.86
Uranium 235 (pCi/L)	.	.	.	.	.	.	0.00	0.00
Uranium 235 (CE+/-)	.	.	.	.	.	.	3.00	1.50
Uranium 238 (pCi/L)	.	.	.	.	.	.	0.00	0.86
Uranium 238 (CE+/-)	.	.	.	.	.	.	3.00	1.70

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-531		GW-532		GW-533		GW-534	
	OLF		OLF		OLF		OLF	
	03/26/91	06/24/91	03/26/91	06/24/91	03/26/91	06/25/91	03/26/91	06/25/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.2	5	1.4	2.3	1.9	2.7	1.2	1.1
pH, Field (pH units)	5.6	5.7	7.4	7.3	6.5	6.5	7.5	7
Redox, Field (mV)	250	207	257	172	193	138	217	22
Sp. Cond., Field (umho/cm)	54	64	282	325	126	138	420	439
Temp, Field (degrees C)	15.6	21.1	16.2	18.3	16	15.8	17.4	16
pH, 1 (pH units)	5.9	6.6	6.9	7.6	6.3	7.1	7	8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	54	65	287	348	118	158	462	544
TDS (mg/L)	100	150	216	224	104	136	306	314
TSS (mg/L)	934	610	3	22	13	53	6	<1
Turbidity (NTU)	340	180	16	4.1	6	36	2.3	2.6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	12.56	3.11	1.94	0.38	0.45	0.08	0.25	1.11
Gross Alpha (CE+/-)	2.80	1.60	1.70	1.20	0.90	1.10	1.50	1.30
Gross Beta (pCi/L)	15.93	7.26	3.38	1.66	4.01	4.91	9.27	1.13
Gross Beta (CE+/-)	4.20	3.40	3.50	3.00	3.20	3.20	3.80	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-535		GW-537				GW-538	
	OLF		OLF				OLF	
	03/26/91	06/24/91	03/26/91	06/25/91	08/14/91	10/23/91	03/28/91	06/25/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.6	1.3	1	1.9	3.7	1.2	0.3	1.5
pH, Field (pH units)	7	7	7.2	6.6	7	6.7	7.1	7.3
Redox, Field (mV)	41	26	258	122	244	220	166	8
Sp. Cond., Field (umho/cm)	443	455	4590	4650	5630	4500	330	294
Temp, Field (degrees C)	16.1	16.6	15.8	15.3	18.5	16.8	15.7	16
pH, 1 (pH units)	7	7.6	6.7	7	7.4	7	7.2	8.1
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	433	442	5267	5380	5300	4840	297	353
TDS (mg/L)	312	296	4432	4310	4174	4412	208	228
TSS (mg/L)	7	184	22	2	3	4	34	91
Turbidity (NTU)	21	65	1.2	1.5	2.4	1.5	110	34
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.18	0.44	-8.01	0.28	14.50	9.81	1.65	0.85
Gross Alpha (CE+/-)	1.10	1.20	12.80	4.40	13.00	7.00	1.20	1.20
Gross Beta (pCi/L)	4.92	2.39	157.86	234.67	404.43	134.00	5.24	4.85
Gross Beta (CE+/-)	3.20	3.10	41.50	22.10	50.10	17.00	3.30	3.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX B
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-601				GW-602			
	OLF				OLF			
	01/25/91	05/04/91	08/30/91	10/31/91	01/25/91	05/06/91	08/22/91	10/18/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	0.9	2.6	1.1	1.4	0.5	0.8	0.8	0.7
pH, Field (pH units)	7.5	7.5	7.5	7.5	8.8	8.6	8.7	8.6
Redox, Field (mV)	143	17	190	102	49	-219	-97	-223
Sp. Cond., Field (umho/cm)	651	779	711	655	591	678	794	876
Temp, Field (degrees C)	12	14.7	16.6	13.7	12.6	14	14.8	15.1
pH, 1 (pH units)	6.9	6.3	7.7	8.1	6.9	6	8.3	7.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	762	774	830	848	661	763	816	747
TDS (mg/L)	464	460	488	466	508	548	554	606
TSS (mg/L)	6	2	<1	.	2	16	3	4
Turbidity (NTU)	17	2.6	2.7	9.7	0.3	4.4	2	1.7
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.68	3.44	3.24	3.69	2.64	3.70	4.08	4.69
Gross Alpha (CE+/-)	1.60	1.60	1.70	2.00	1.80	1.60	1.90	3.00
Gross Beta (pCi/L)	20.40	23.25	22.50	17.60	16.57	16.42	14.50	8.68
Gross Beta (CE+/-)	4.20	4.50	4.20	3.50	4.10	4.20	3.90	3.33
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-613				GW-614			
	S3				S3			
	01/05/91	04/04/91	07/01/91	10/01/91	01/05/91	04/04/91	07/02/91	10/01/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	3.2	3.3	3	3.9	0.6	0.2	0.1	0.4
pH, Field (pH units)	6.7	6.5	6.5	6.6	7.4	6.9	7.4	7.5
Redox, Field (mV)	273	220	101	188	270	214	-3	-13
Sp. Cond., Field (umho/cm)	195	184	188	160	383	323	348	297
Temp, Field (degrees C)	13.6	14.2	15.4	14.4	13.2	15.2	16.1	14.7
pH, 1 (pH units)	6.5	6.6	7.2	7.1	6.9	6.9	8.2	7.6
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	143	165	221	196	269	305	342	355
TDS (mg/L)	122	142	196	140	212	204	216	218
TSS (mg/L)	<1	21	27	25	<1	6	1	1
Turbidity (NTU)	7.2	6	6.4	13	0.97	0.58	1.5	0.4
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.14	2.24	1.67	1.15	1.99	2.04	1.18	12.10
Gross Alpha (CE+/-)	1.30	1.20	1.40	1.30	1.30	1.10	1.30	2.60
Gross Beta (pCi/L)	-0.62	1.03	0.86	1.84	2.80	3.45	1.83	24.70
Gross Beta (CE+/-)	3.20	3.00	3.10	2.30	3.40	3.10	3.20	4.10
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	0.00	0.00	.	.	0.00	0.00	.	.
Uranium 234 (CE+/-)	1.50	1.60	.	.	1.50	1.40	.	.
Uranium 235 (pCi/L)	0.00	0.46	.	.	0.00	0.00	.	.
Uranium 235 (CE+/-)	1.50	0.90	.	.	1.50	1.40	.	.
Uranium 238 (pCi/L)	0.00	0.00	.	.	0.43	0.00	.	.
Uranium 238 (CE+/-)	1.50	1.60	.	.	0.90	1.40	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-615				GW-616			
	S3				S3			
	01/11/91	04/10/91	08/05/91	10/08/91	01/12/91	04/12/91	07/27/91	10/07/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.4	1.1	2.2	0.5	0.4	0.9	1	1.1
pH, Field (pH units)	6	6.6	6.2	6.7	9	9.5	9	9
Redox, Field (mV)	90	72	150	-40	684	141	131	122
Sp. Cond., Field (umho/cm)	51000	47800	50300	49100	2070	2310	2500	2280
Temp, Field (degrees C)	14.7	17	18.8	16.5	12.6	14.8	18.7	15.6
pH, 1 (pH units)	6.2	6.4	6.9	6.2	8.7	8.4	9	8.8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	44400	44100	46300	45500	2327	2757	2730	2720
TDS (mg/L)	62086	59064	60536	884	1722	2022	2048	2006
TSS (mg/L)	21	101	107	33	13	8	17	14
Turbidity (NTU)	26	19	4.8	6.5	14	28	20	17
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	540.00	586.70	439.00	342.00	9.76	6.40	-0.09	7.24
Gross Alpha (CE+/-)	180.00	194.70	190.00	150.00	14.90	1.80	4.00	5.90
Gross Beta (pCi/L)	964.00	918.81	764.00	827.00	-24.87	4.10	-15.63	18.60
Gross Beta (CE+/-)	370.00	357.00	350.00	180.00	34.50	3.30	12.90	13.00
Americium 241 (pCi/L)	.	.	.	4.51	.	.	.	.
Americium 241 (CE+/-)	.	.	.	3.90	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	23.70	12.30	.	.	.	.
Neptunium 237 (CE+/-)	.	.	15.00	14.00	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	-2.67	144.00	.	.	.	.
Strontium (CE+/-)	.	.	22.00	11.00	.	.	.	.
Technetium 99 (pCi/L)	.	.	114.00	1600.00	.	.	.	.
Technetium 99 (CE+/-)	.	.	1600.00	1700.00	.	.	.	.
Tritium (Bq/L)	.	.	12.00	22.00	.	.	.	.
Tritium (CE+/-)	.	.	30.00	32.00	.	.	.	.
Uranium 234 (pCi/L)	.	.	76.30	0.00	.	.	.	.
Uranium 234 (CE+/-)	.	.	26.00	17.00	.	.	.	.
Uranium 235 (pCi/L)	.	.	19.60	0.00	.	.	.	.
Uranium 235 (CE+/-)	.	.	13.00	19.00	.	.	.	.
Uranium 238 (pCi/L)	.	.	242.00	56.70	.	.	.	.
Uranium 238 (CE+/-)	.	.	46.00	31.00	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-621				GW-622			
	BG				BG			
	03/20/91	06/20/91	09/10/91	11/16/91	03/20/91	06/20/91	09/25/91	12/21/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	5.3	2.7	3.2	4.2	2.3	1.2	1.8	0.9
pH, Field (pH units)	7.4	7.7	7.2	7.6	6.6	7	7.2	5.9
Redox, Field (mV)	257	118	217	67	254	192	100	104
Sp. Cond., Field (umho/cm)	338	325	382	367	288	335	351	270
Temp, Field (degrees C)	15.7	15	15	15	18.2	16.9	16.6	14.4
pH, 1 (pH units)	6.9	8.2	7.5	7.42	6.7	7.3	7.3	7.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	352	354	445	381	334	352	373	344
TDS (mg/L)	266	206	278	248	196	212	222	204
TSS (mg/L)	25	16	14	40	<1	<1	4	2
Turbidity (NTU)	40	25	16	52	1.4	0.35	2.6	3.2
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	4.73	4.29	5.44	4.25	1.46	0.81	2.15	0.00
Gross Alpha (CE+/-)	1.60	1.90	1.80	2.20	1.10	1.30	1.40	2.10
Gross Beta (pCi/L)	15.73	4.75	29.28	14.10	4.33	-0.81	-1.26	1.91
Gross Beta (CE+/-)	3.80	3.60	4.60	3.60	3.20	3.30	3.40	2.90
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-623				GW-624		GW-626	
	BG				BG		BG	
	03/24/91	06/21/91	09/26/91	12/22/91	03/24/91	06/21/91	03/23/91	06/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.5	5.8	1.7	2.4	7.3	1	5.5	5.5
pH, Field (pH units)	9.9	10.2	9.8	9.7	7.4	7	8	8
Redox, Field (mV)	203	65	36	12	-9	179	258	174
Sp. Cond., Field (umho/cm)	1514	1524	1352	1501	370	526	197	189
Temp, Field (degrees C)	16.1	23	16.7	13.2	14.5	17.4	13.8	16.3
pH, 1 (pH units)	9.8	10	9.6	9.6	7	7.9	6.9	8.3
Phenols (mg/L)	.	.	.	.	.	.	<0.03	<0.05
Sp. Cond., 1 (umho/cm)	1451	1720	1611	1482	375	563	178	205
TDS (mg/L)	918	904	932	912	198	346	128	112
TSS (mg/L)	40	1150	37	14	44	23	2	3
Turbidity (NTU)	25	210	22	9	110	25	0.16	0.25
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	4.47	15.35	5.08	1.80	1.85	1.37	1.82	0.68
Gross Alpha (CE+/-)	1.60	2.90	1.90	4.30	1.70	1.50	1.10	1.40
Gross Beta (pCi/L)	8.51	15.34	9.39	9.74	3.41	6.81	5.38	6.54
Gross Beta (CE+/-)	3.50	4.20	3.40	3.50	3.50	3.70	3.30	3.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-626		GW-627				GW-629	
	BG		BG				BG	
	09/26/91	12/22/91	03/24/91	06/22/91	09/25/91	12/18/91	03/26/91	06/22/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.1	1.5	0.4	0.8	0.8	0.5	0.1	0.8
pH, Field (pH units)	8.3	8.1	9.2	8.9	9	9	8.8	9
Redox, Field (mV)	152	162	182	-86	-123	-70	68	-14
Sp. Cond., Field (umho/cm)	181	234	1187	1100	1129	1108	831	849
Temp, Field (degrees C)	16.3	13	15.5	16	14.6	14.1	15.4	16.8
pH, 1 (pH units)	8	7.9	9	9.3	8.8	9.06	9	9.3
Phenols (mg/L)	.	.	<0.03	<0.05	.	.	<0.03	<0.05
Sp. Cond., 1 (umho/cm)	219	241	1117	1205	1193	1165	892	1014
TDS (mg/L)	140	148	702	708	710	750	710	596
TSS (mg/L)	<1	<1	<1	<1	1	<1	<1	3
Turbidity (NTU)	0.15	0.32	0.43	0.35	0.3	0.8	3	0.55
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.40	0.75	-11.27	-0.51	3.41	-1.49	3.61	0.48
Gross Alpha (CE+/-)	1.50	2.10	12.20	1.00	1.60	20.00	1.50	1.30
Gross Beta (pCi/L)	-0.42	4.46	-34.91	3.41	-1.58	-21.40	3.87	-1.76
Gross Beta (CE+/-)	3.40	3.00	31.60	3.20	3.30	31.00	3.20	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-630				GW-636			
	OLF				OLF			
	03/26/91	06/25/91	08/09/91	10/14/91	02/11/91	05/16/91	08/21/91	10/18/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.8	1	1.7	2.2	0.4	0.3	0.2	0.4
pH, Field (pH units)	7.6	7.2	7	6.8	8.2	8.2	8	8.4
Redox, Field (mV)	235	129	173	229	233	-124	150	-95
Sp. Cond., Field (umho/cm)	308	327	350	349	299	337	348	330
Temp, Field (degrees C)	16.1	15.9	16.8	16.1	13.4	16.3	14.9	14.1
pH, 1 (pH units)	6.9	8.2	7.7	7.6	7.1	6.2	8.4	7.8
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	326	393	431	369	266	326	323	387
TDS (mg/L)	216	236	238	260	200	236	204	236
TSS (mg/L)	5	1	<1	3	<1	<1	<1	<1
Turbidity (NTU)	1.4	1.6	0.65	6.6	1.6	3.4	0.6	1.3
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.20	0.56	0.89	0.46	0.05	0.02	0.26	0.96
Gross Alpha (CE+/-)	1.60	1.20	1.20	1.80	1.10	1.10	1.40	1.90
Gross Beta (pCi/L)	1.00	1.97	4.70	3.81	4.34	1.53	2.62	5.33
Gross Beta (CE+/-)	3.40	3.10	3.40	2.90	3.40	3.30	3.30	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	-103.00	-1530.00	.	.
Technetium 99 (CE+/-)	.	.	.	.	1600.00	1500.00	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-637				GW-638			
	OLF				OLF			
	02/12/91	05/17/91	08/20/91	10/17/91	02/12/91	05/17/91	08/20/91	10/17/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.3	4.2	2.1	4	8.6	6	5.4	9.6
pH, Field (pH units)	7.4	7.6	7.6	7.3	7.2	7.2	7.1	7.2
Redox, Field (mV)	210	180	118	125	319	210	156	352
Sp. Cond., Field (umho/cm)	348	368	348	349	536	481	504	466
Temp, Field (degrees C)	13.2	18.2	17.8	14.7	10.9	17.1	19.5	16.4
pH, 1 (pH units)	6.8	6.3	7.8	7.4	7.2	6.5	7.7	7.2
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	220	323	446	551	430	534	683	1455
TDS (mg/L)	232	254	236	254	400	418	480	490
TSS (mg/L)	3	4	3	5	117	42	25	502
Turbidity (NTU)	4.4	2.7	1.2	3.6	90	100	80	250
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	0.18	3.83	0.91	0.46	7.17	4.82	6.48	7.94
Gross Alpha (CE+/-)	1.30	1.70	1.20	1.80	2.20	1.80	2.20	3.10
Gross Beta (pCi/L)	0.51	3.61	-0.26	0.99	16.75	9.19	14.17	12.80
Gross Beta (CE+/-)	3.20	3.40	3.20	2.80	4.10	3.70	3.90	3.50
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	137.00	-3380.00	.	.	-1140.00	388.00	.	.
Technetium 99 (CE+/-)	1600.00	1500.00	.	.	1500.00	1600.00	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-639				GW-640			
	BG				BG			
	03/25/91	06/22/91	09/09/91	11/16/91	03/25/91	06/22/91	09/09/91	11/15/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.6	0.5	0.8	1	5.3	5	5	4.4
pH, Field (pH units)	9.3	9.3	9.3	9.3	5.9	5.4	6.4	6.2
Redox, Field (mV)	66	17	-21	-22	205	225	274	211
Sp. Cond., Field (umho/cm)	907	843	816	906	93	86	89	106
Temp, Field (degrees C)	16.5	18.1	16.6	14.7	15.9	16.1	16	15
pH, 1 (pH units)	9	9.4	9.1	8.97	6.1	6.6	6.4	6.29
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	792	925	919	901	75	96	107	107
TDS (mg/L)	580	528	582	556	86	82	84	80
TSS (mg/L)	8	12	11	17	4	6	2	5
Turbidity (NTU)	11	12	26	25	3.9	0.9	0.9	2.4
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.93	1.51	2.15	1.23	-0.33	0.06	0.44	1.88
Gross Alpha (CE+/-)	1.70	1.40	1.40	2.30	1.40	1.10	1.10	1.80
Gross Beta (pCi/L)	2.13	1.32	1.42	3.61	1.92	2.51	0.14	0.00
Gross Beta (CE+/-)	3.50	3.00	3.30	3.20	3.50	3.10	3.20	2.80
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-641				GW-642			
	BG				BG			
	03/25/91	06/22/91	09/09/91	11/15/91	03/09/91	06/15/91	09/04/91	11/03/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	6.7	8.2	5.7	5.8	1.4	3.5	0.6	2.6
pH, Field (pH units)	5.4	4.8	5.7	6	6.3	5.7	6.2	6.4
Redox, Field (mV)	288	335	295	202	283	202	-32	18
Sp. Cond., Field (umho/cm)	40	38	44	46	177	152	136	130
Temp, Field (degrees C)	15.3	19	18.3	16.8	15.2	18.3	17.5	13.4
pH, 1 (pH units)	5.4	6.1	5.8	5.8	6.3	7	6.7	6.1
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	<50	30	43	45	148	143	144	135
TDS (mg/L)	68	50	52	58	114	112	102	108
TSS (mg/L)	6	14	17	159	27	30	48	35
Turbidity (NTU)	6.1	3.4	15	70	36	31	42	39
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.76	0.69	0.70	0.85	0.29	1.19	3.86	1.63
Gross Alpha (CE+/-)	1.30	1.20	1.10	1.60	1.50	1.40	1.70	1.40
Gross Beta (pCi/L)	-0.86	1.69	1.22	1.23	0.58	2.93	5.10	5.19
Gross Beta (CE+/-)	3.30	3.00	3.30	2.90	3.30	3.50	3.20	2.80
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	0.43	3.46	.	.
Uranium 234 (CE+/-)	.	.	.	.	0.90	2.70	.	.
Uranium 235 (pCi/L)	.	.	.	.	0.00	-0.43	.	.
Uranium 235 (CE+/-)	.	.	.	.	1.70	0.90	.	.
Uranium 238 (pCi/L)	.	.	.	.	0.00	-0.43	.	.
Uranium 238 (CE+/-)	.	.	.	.	1.50	0.90	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-643				GW-644			
	BG				OLF			
	02/27/91	06/08/91	09/04/91	11/03/91	01/31/91	05/10/91	08/20/91	10/17/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	5.6	3.4	5	4.7	2.5	1.2	3.2	16.5
pH, Field (pH units)	5.6	5.5	5.9	6.1	5.7	6.2	6.5	5.8
Redox, Field (mV)	346	372	199	115	346	239	236	446
Sp. Cond., Field (umho/cm)	72	105	70	130	144	170	204	159
Temp, Field (degrees C)	15.2	16.5	16.1	15	11.4	14.1	16.1	14.1
pH, 1 (pH units)	6	3	6.4	5.6	6.3	4.1	6.9	7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	96	88	141	79	119	136	219	235
TDS (mg/L)	160	134	114	94	106	102	116	198
TSS (mg/L)	2194	211	55	39	9	30	10	486
Turbidity (NTU)	1000	170	29	21	2.7	16	12	260
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	7.59	0.61	2.96	2.37	0.63	0.07	0.83	1.36
Gross Alpha (CE+/-)	2.10	1.20	1.60	1.60	1.30	1.20	1.50	1.90
Gross Beta (pCi/L)	9.39	4.40	5.38	1.81	3.91	3.59	1.95	2.72
Gross Beta (CE+/-)	3.80	3.50	3.20	2.50	3.50	3.10	3.30	2.90
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	-0.44	0.82	.	.	.	.	.	.
Uranium 234 (CE+/-)	0.90	1.60	.	.	.	.	.	.
Uranium 235 (pCi/L)	0.00	0.41	.	.	.	.	.	.
Uranium 235 (CE+/-)	1.50	0.80	.	.	.	.	.	.
Uranium 238 (pCi/L)	0.44	0.00	.	.	.	.	.	.
Uranium 238 (CE+/-)	0.90	1.40	.	.	.	.	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-645				GW-646			
	OLF				OLF			
	02/12/91	05/17/91	08/22/91	10/18/91	01/31/91	05/10/91	08/22/91	10/21/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	6.7	5.6	8.9	5.3	1.3	0.3	0.5	0.5
pH, Field (pH units)	7	7.7	7.6	7.3	7.2	7.1	7.2	7.1
Redox, Field (mV)	355	200	95	228	55	98	-53	-211
Sp. Cond., Field (umho/cm)	336	369	481	456	1010	1184	1068	1120
Temp, Field (degrees C)	12.9	16	15.7	11.2	12.1	13.8	14.5	14
pH, 1 (pH units)	7.6	6.5	7.7	7.7	6.8	6.3	7.3	9.5
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	329	380	489	460	1105	1071	1030	524
TDS (mg/L)	212	252	242	274	878	830	816	974
TSS (mg/L)	5	17	8	54	1	19	2	<1
Turbidity (NTU)	4.9	15	14	58	3.6	15	6.7	14
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.63	3.60	0.78	3.78	6.39	4.84	6.42	9.81
Gross Alpha (CE+/-)	1.50	1.70	1.50	2.30	2.10	2.00	2.20	4.00
Gross Beta (pCi/L)	1.70	3.09	3.18	4.24	17.32	18.48	24.30	17.80
Gross Beta (CE+/-)	3.30	3.40	3.30	3.00	4.10	4.10	4.40	3.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	-525.00	959.00	.	.	-674.00	-274.00	.	.
Technetium 99 (CE+/-)	1600.00	1600.00	.	.	1600.00	1600.00	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-647				GW-648			
	OLF				RS			
	02/01/91	05/10/91	08/26/91	10/21/91	01/15/91	05/01/91	07/03/91	10/03/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.5	2.1	6.2	15.4	6.6	7.8	7.7	5.2
pH, Field (pH units)	7.3	7.5	7.2	7.8	7.3	7.2	7.3	7.3
Redox, Field (mV)	325	116	205	5	273	277	163	219
Sp. Cond., Field (umho/cm)	471	595	498	518	355	283	248	297
Temp, Field (degrees C)	11.3	16.2	18.6	15.8	12	13.6	15.7	14.3
pH, 1 (pH units)	6.9	6.2	7.8	7.8	7.1	6.3	7.9	7.7
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	507	541	608	527	297	305	355	344
TDS (mg/L)	362	370	374	372	150	182	192	164
TSS (mg/L)	8	15	<1	5	40	2	1	5
Turbidity (NTU)	5.5	20	0.3	6	9.9	1.8	0.5	0.91
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.76	1.45	0.47	3.78	1.16	8.13	4.56	2.22
Gross Alpha (CE+/-)	1.50	1.60	1.30	2.10	1.50	2.20	1.80	1.20
Gross Beta (pCi/L)	6.10	7.57	3.58	7.99	-0.78	19.61	3.32	1.34
Gross Beta (CE+/-)	3.60	3.60	3.40	3.10	3.50	4.30	3.30	3.30
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	0.10	0.01	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	1.30	0.75	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	-353.00	-320.00	.	.	764.00	-1470.00	.	.
Technetium 99 (CE+/-)	1600.00	1600.00	.	.	1500.00	1600.00	.	.
Tritium (Bq/L)	.	.	.	.	14.00	37.00	.	.
Tritium (CE+/-)	.	.	.	.	33.00	25.00	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-649				GW-651			
	OLF				BG			
	01/06/91	04/06/91	07/02/91	10/02/91	03/23/91	06/21/91	09/15/91	11/23/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	3.3	1.3	1.9	2	5.2	3.8	5.2	7.9
pH, Field (pH units)	6.6	7	6.5	6	7.6	7.5	7.8	7.7
Redox, Field (mV)	354	145	181	214	231	102	158	103
Sp. Cond., Field (umho/cm)	205	217	201	147	378	380	339	357
Temp, Field (degrees C)	12.8	16.1	15.8	15.6	13.8	15	16.6	14.2
pH, 1 (pH units)	6.5	6.6	7.5	7	7.1	8	7.9	7.7
Phenols (mg/L)	.	.	.	.	<0.03	<0.05	.	.
Sp. Cond., 1 (umho/cm)	178	201	225	186	371	335	373	379
TDS (mg/L)	146	122	174	132	302	138	200	226
TSS (mg/L)	2	1	<1	19	3	6	16	4
Turbidity (NTU)	2.2	1.1	0.9	21	1.8	13	5.2	4.6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.31	1.83	0.37	2.18	3.91	2.14	6.79	0.00
Gross Alpha (CE+/-)	1.20	1.10	1.20	1.20	1.50	1.60	1.90	1.50
Gross Beta (pCi/L)	0.77	4.40	2.29	-0.95	5.54	2.46	6.10	3.23
Gross Beta (CE+/-)	3.30	3.20	3.20	3.20	3.30	3.50	3.30	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	-1540.00	-22.80	.	.	.	.	.	.
Technetium 99 (CE+/-)	1500.00	1600.00	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	0.00	0.00	.	.	.	.	.	.
Uranium 234 (CE+/-)	1.50	1.60	.	.	.	.	.	.
Uranium 235 (pCi/L)	0.00	0.00	.	.	.	.	.	.
Uranium 235 (CE+/-)	1.50	1.60	.	.	.	.	.	.
Uranium 238 (pCi/L)	0.00	0.00	.	.	.	.	.	.
Uranium 238 (CE+/-)	1.50	1.60	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-652				GW-653			
	BG				BG			
	03/23/91	06/21/91	09/14/91	11/23/91	03/23/91	06/21/91	09/15/91	12/11/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	1.6	1.4	2.6	1.1	7.9	6.2	5.5	5
pH, Field (pH units)	7.4	7.2	7.3	7.4	5.4	5.2	5.5	5.6
Redox, Field (mV)	246	125	118	69	392	307	242	172
Sp. Cond., Field (umho/cm)	405	292	386	405	34	25	44	33
Temp, Field (degrees C)	13.7	26.6	17.5	14.4	15.4	14.8	16.6	14.2
pH, 1 (pH units)	7	7.7	7.6	7.4	5.7	6	5.9	5.82
Phenols (mg/L)	<0.03	<0.05	.	.	<0.03	<0.05	.	.
Sp. Cond., 1 (umho/cm)	408	412	379	426	56	30	37	33
TDS (mg/L)	296	230	228	290	86	52	82	50
TSS (mg/L)	4	3	1	29	337	541	107	17
Turbidity (NTU)	15	7.5	0.85	62	140	180	46	175
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	3.65	0.73	1.81	1.70	3.66	6.63	2.63	2.00
Gross Alpha (CE+/-)	1.40	1.40	1.30	1.80	1.40	2.00	1.40	1.50
Gross Beta (pCi/L)	5.44	0.61	7.23	2.07	8.12	6.92	9.56	4.50
Gross Beta (CE+/-)	3.30	3.40	3.40	3.00	3.40	3.40	3.50	2.70
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-654				GW-655			
	BG				BG			
	03/09/91	06/15/91	09/14/91	11/23/91	03/09/91	06/15/91	09/05/91	11/05/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	5.5	1.4	2.8	1.6	0.5	5.5	1	1.7
pH, Field (pH units)	7.2	6.9	7.3	7.3	5.9	6.1	5.8	6.8
Redox, Field (mV)	239	155	22	44	273	336	188	104
Sp. Cond., Field (umho/cm)	239	256	273	272	96	105	90	91
Temp, Field (degrees C)	11.2	19	19.3	15.8	14.3	23.2	16.6	12.5
pH, 1 (pH units)	6.7	7.7	7.7	7.3	6.3	7.2	6.5	7.9
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	208	249	261	281	104	96	98	97
TDS (mg/L)	170	164	192	254	84	112	134	94
TSS (mg/L)	15	4	15	269	42	73	335	107
Turbidity (NTU)	19	8.6	24	330	17	55	100	100
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.57	1.18	1.73	0.47	0.59	14.22	4.92	5.77
Gross Alpha (CE+/-)	1.60	1.40	1.30	1.60	1.00	2.80	1.80	2.40
Gross Beta (pCi/L)	0.52	1.38	2.99	-1.33	2.82	17.90	10.33	3.59
Gross Beta (CE+/-)	3.30	3.40	3.10	2.80	3.40	4.20	3.50	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	0.82	0.95	.	.	0.00	0.87	.	.
Uranium 234 (CE+/-)	1.20	1.90	.	.	1.40	1.70	.	.
Uranium 235 (pCi/L)	-0.41	0.00	.	.	-0.42	0.00	.	.
Uranium 235 (CE+/-)	0.80	1.90	.	.	0.80	1.70	.	.
Uranium 238 (pCi/L)	0.41	0.00	.	.	0.00	0.00	.	.
Uranium 238 (CE+/-)	0.80	1.90	.	.	1.40	1.70	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-683			GW-684			GW-685	
	EXP			EXP			EXP	
	05/24/91	09/19/91	12/12/91	05/30/91	09/19/91	12/12/91	06/01/91	09/18/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4.2	2.7	6.6	3.6	2.5	5.9	8.2	0.3
pH, Field (pH units)	7	7.1	7	7.3	7.5	7.6	7.4	7.2
Redox, Field (mV)	333	135	172	143	140	160	157	-60
Sp. Cond., Field (umho/cm)	485	579	377	438	571	398	603	598
Temp, Field (degrees C)	14.8	13.7	13.1	14.5	13.8	13.6	19	17
pH, 1 (pH units)	6.2	7.9	7.13	6.2	7.4	7.13	6.5	7.3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	423	690	382	405	722	382	577	623
TDS (mg/L)	258	404	212	266	414	224	348	372
TSS (mg/L)	4	<1	3	<1	3	<1	18	7
Turbidity (NTU)	0.51	0.25	7.1	2.8	4	3.2	41	12
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	19.89	27.80	12.60	14.89	1.59	12.80	2.73	2.87
Gross Alpha (CE+/-)	3.20	3.60	3.20	2.80	1.20	3.20	1.50	1.40
Gross Beta (pCi/L)	37.65	93.20	27.40	36.26	-2.39	34.30	7.66	8.68
Gross Beta (CE+/-)	4.90	6.60	4.00	4.90	2.80	4.30	3.60	3.40
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-695	GW-694				GW-695			GW-703
Location	EXP	EXP				EXP			EXP
Date Sampled	12/12/91	06/19/91	09/13/91	11/22/91	06/18/91	09/13/91	11/22/91	06/18/91	
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.	.
DO, Field (ppm)	8.1	3.5	1	3.2	7.2	9.2	9.9	6.8	
pH, Field (pH units)	7.7	7.3	6.6	6.9	8.6	8.4	8.5	8.4	
Redox, Field (mV)	35	-35	-57	-2	114	97	190	109	
Sp. Cond., Field (umho/cm)	615	590	994	802	437	351	391	382	
Temp, Field (degrees C)	14.2	14.8	15.7	13.3	16.1	18	12.1	16.3	
pH, 1 (pH units)	7.38	7.1	7	7.2	8.6	8.4	8.5	8.2	
Phenols (mg/L)	.	.	.	.	.	.	.	.	
Sp. Cond., 1 (umho/cm)	634	603	1020	815	458	375	398	406	
TDS (mg/L)	350	372	662	476	288	228	212	240	
TSS (mg/L)	3	<1	2	5	90	328	30	5	
Turbidity (NTU)	5.5	6	3	8.6	55	185	17	19	
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.	
Gross Alpha (pCi/L)	1.35	23.68	55.48	48.80	4.59	6.16	5.08	2.15	
Gross Alpha (CE+/-)	1.80	3.50	5.10	6.00	1.80	1.90	2.40	1.50	
Gross Beta (pCi/L)	8.68	48.38	143.17	131.00	15.89	12.13	14.00	4.37	
Gross Beta (CE+/-)	3.10	5.40	7.90	7.20	4.20	3.60	3.60	3.60	
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.	
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.	
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.	
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.	
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.	
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.	
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.	
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.	
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.	
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.	
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.	
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.	
Strontium (pCi/L)	.	.	.	.	.	.	.	.	
Strontium (CE+/-)	.	.	.	.	.	.	.	.	
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.	
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.	
Tritium (Bq/L)	.	.	.	.	.	.	.	.	
Tritium (CE+/-)	.	.	.	.	.	.	.	.	
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.	
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.	
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.	
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.	
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.	
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.	

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APPENDIX E
Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-703		GW-704			GW-705		
	EXP		EXP			EXP		
	09/11/91	11/18/91	06/20/91	09/12/91	11/19/91	06/20/91	09/10/91	09/11/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	8.7	5.8	2.4	1.8	0.5	1.8	1.7	5.3
pH, Field (pH units)	8.3	8	7.6	7.6	7.6	8.9	8.7	8.6
Redox, Field (mV)	110	113	100	-67	-86	-65	194	107
Sp. Cond., Field (umho/cm)	354	432	476	416	502	959	1303	827
Temp, Field (degrees C)	16.4	14.8	14.6	16.4	14.8	17.1	17.8	17.8
pH, 1 (pH units)	8.2	7.9	7.8	7.9	7.86	9	8.8	.
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	371	435	520	455	518	1006	1350	.
TDS (mg/L)	232	250	306	294	298	618	660	.
TSS (mg/L)	9	24	2	10	16	76	38	.
Turbidity (NTU)	18	68	7.3	17	29	450	55	.
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.42	3.40	1.60	2.32	2.09	1.97	3.90	.
Gross Alpha (CE+/-)	1.40	2.10	1.40	1.40	1.90	1.50	1.60	.
Gross Beta (pCi/L)	5.06	10.50	3.59	5.28	3.33	5.27	3.80	.
Gross Beta (CE+/-)	3.20	3.40	3.60	3.30	3.00	3.70	3.20	.
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX E
Groundwater Quality Data, 1991

Well No.	GW-705	GW-706			GW-710	GW-711	GW-712
Location	EXP	EXP			EXP	EXP	EXP
Date Sampled	11/17/91	06/20/91	09/13/91	11/19/91	12/05/91	12/10/91	12/09/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.
DC, Field (ppm)	0.8	4.2	0.2	0.3	0.3	0.2	0.1
pH, Field (pH units)	9	8	7.1	7.3	7.5	7.4	7.9
Redox, Field (mV)	12	70	-87	-46	-44	-140	-95
Sp. Cond., Field (umho/cm)	1309	457	1017	1457	4460	7160	1260
Temp, Field (degrees C)	16.1	15.6	16.3	14.1	10.8	14.5	14
pH, 1 (pH units)	8.7	8.3	7.2	7.9	7.1	7.05	7.55
Phenols (mg/L)	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	1623	498	1030	1230	4800	7900	1207
TDS (mg/L)	960	262	638	734	4420	5978	898
TSS (mg/L)	19	3	13	1	30	27	11
Turbidity (NTU)	20	2.5	85	1.4	95	66	54
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.62	4.58	24.84	58.40	32.30	23.80	1.76
Gross Alpha (CE+/-)	2.00	1.90	3.40	7.10	21.00	22.00	2.30
Gross Beta (pCi/L)	0.86	21.84	67.36	197.00	48.60	22.40	5.65
Gross Beta (CE+/-)	3.00	4.40	5.80	8.70	29.00	27.00	3.00
Americium 241 (pCi/L)	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location	BCK-00.63				BCK-04.55			
Date Sampled	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	11.2	9.6	9.5	10	11.4	10.3	9.5	9.8
pH, Field (pH units)	8.1	8.2	8	7.7	7.7	7.5	8	7.4
Sp. Cond., Field (umho/cm)	158	230	390	140	178	230	390	160
Temp, Field (degrees C)	6.3	15.1	20.6	9.3	6.5	13.9	20.6	9.8
pH, 1 (pH units)	6.8	6.9	8.1	7.5	6.8	6.9	8.1	7.6
Sp. Cond., 1 (umho/cm)	182	276	398	258	206	290	405	248
TDS (mg/L)	122	172	232	126	104	186	248	134
TSS (mg/L)	6	11	1	5	1	1	1	9
Turbidity (NTU)	4.8	5.9	2.2	13	4.1	4.7	3.2	9.5
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	12.94	12.46	17.17	20.50	16.26	13.65	13.22	21.60
Gross Alpha (CE+/-)	2.90	2.60	3.00	3.70	3.10	2.70	2.70	3.80
Gross Beta (pCi/L)	7.30	26.92	37.56	19.80	10.75	24.49	37.28	23.50
Gross Beta (CE+/-)	4.30	4.60	4.90	3.60	4.40	4.50	4.80	3.80
Uranium 234 (pCi/L)	4.79	5.93	3.49	8.67	3.24	2.09	3.27	6.26
Uranium 234 (CE+/-)	2.90	3.30	2.80	4.00	2.30	1.90	2.60	3.20
Uranium 235 (pCi/L)	0.44	0.91	0.44	0.91	0.00	0.00	0.41	0.42
Uranium 235 (CE+/-)	0.90	1.30	0.90	1.80	1.40	1.40	0.80	1.40
Uranium 238 (pCi/L)	3.49	11.40	9.59	21.00	6.49	3.34	6.13	18.40
Uranium 238 (CE+/-)	2.50	4.60	4.10	6.30	3.20	2.40	3.20	5.70

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location	BCK-09.40				BCK-11.97			
Date Sampled	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
DO, Field (ppm)	12	9.6	9.5	10.2	14	8.3	9.5	9.6
pH, Field (pH units)	8.2	8.4	8	7.7	7.5	7.7	8	7.5
Sp. Cond., Field (umho/cm)	290	385	390	255	900	1100	390	700
Temp, Field (degrees C)	6.8	18.6	20.6	8.7	8.8	22.7	20.6	7.5
pH, 1 (pH units)	7.1	7	8.1	7.5	7.2	6.9	8	7.9
Sp. Cond., 1 (umho/cm)	371	448	656	397	1187	1125	1030	1045
TDS (mg/L)	212	322	438	234	790	960	714	768
TSS (mg/L)	<1	1	2	5	1	1	2	6
Turbidity (NTU)	3.1	2.7	1.8	8.2	2	1.1	0.75	2.7
	.	.	.	.	.	.	.	.
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	48.06	27.52	43.32	75.50	77.24	38.30	42.77	69.00
Gross Alpha (CE+/-)	5.00	3.70	4.60	7.00	6.20	4.30	4.50	7.50
Gross Beta (pCi/L)	55.09	67.75	119.76	85.70	247.57	267.54	234.65	189.00
Gross Beta (CE+/-)	6.10	6.10	7.40	5.90	10.60	10.70	9.90	8.50
Uranium 234 (pCi/L)	7.51	2.16	7.54	32.90	6.17	10.50	13.50	23.00
Uranium 234 (CE+/-)	3.50	1.90	3.70	7.50	3.30	4.20	5.00	6.30
Uranium 235 (pCi/L)	0.42	0.43	0.42	3.03	0.88	2.09	0.43	0.00
Uranium 235 (CE+/-)	0.80	0.90	0.80	2.60	1.30	1.90	0.90	1.70
Uranium 238 (pCi/L)	22.50	3.46	18.00	82.60	11.50	23.50	38.20	42.10
Uranium 238 (CE+/-)	6.10	2.40	5.50	12.00	4.50	6.30	8.10	8.60

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location Date Sampled	NT-13				SS-1			
	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	11.1	8	9.5	8.2	11.2	7.6	9.5	6.6
pH, Field (pH units)	7.6	7.2	8	7.2	7.3	7.3	8	7
Sp. Cond., Field (umho/cm)	90	128	390	60	950	950	390	900
Temp, Field (degrees C)	6.2	19	20.6	9	113.7	17.5	20.6	12.8
pH, 1 (pH units)	6.4	6.6	7.9	6.6	7.2	7.1	7.8	7.6
Sp. Cond., 1 (umho/cm)	59	136	237	236	1129	896	1350	1254
TDS (mg/L)	36	94	168	64	868	770	950	850
TSS (mg/L)	18	34	168	19	8	4	11	<1
Turbidity (NTU)	22	21	100	17	2.6	1.3	28	0.34
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-1.04	0.75	1.14	0.43	24.62	13.86	11.74	24.40
Gross Alpha (CE+/-)	1.30	1.10	1.40	1.40	3.70	2.70	2.60	5.00
Gross Beta (pCi/L)	-4.97	1.07	3.75	1.31	101.96	112.65	121.77	89.10
Gross Beta (CE+/-)	3.70	3.40	3.30	2.70	7.40	7.40	7.40	6.20
Uranium 234 (pCi/L)	0.43	0.00	0.00	0.44	2.37	0.48	6.13	16.80
Uranium 234 (CE+/-)	0.90	1.50	1.70	0.87	2.10	1.00	3.40	5.20
Uranium 235 (pCi/L)	0.00	0.00	0.00	-0.44	0.95	0.95	0.00	0.82
Uranium 235 (CE+/-)	1.50	1.50	1.40	0.87	1.30	1.30	1.40	1.60
Uranium 238 (pCi/L)	0.00	0.00	0.00	-0.44	3.32	4.75	8.18	17.20
Uranium 238 (CE+/-)	1.50	1.50	1.40	0.87	2.50	3.00	3.70	5.40

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location .	SS-4				SS-5			
	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	10.4	5	9.5	9.1	11.8	7.2	9.5	8.8
pH, Field (pH units)	7.5	7	8	7.3	7.5	7.4	8	6.8
Sp. Cond., Field (umho/cm)	410	420	390	310	260	280	390	175
Temp, Field (degrees C)	12.1	13.7	20.6	11.6	11.4	13.6	20.6	13.2
pH, 1 (pH units)	7.1	7	8	7.4	6.8	7.1	7.5	7.1
Sp. Cond., 1 (umho/cm)	479	545	790	494	283	351	553	273
TDS (mg/L)	308	336	490	250	180	224	324	132
TSS (mg/L)	4	<1	7	39	2	1	1	10
Turbidity (NTU)	2.4	0.06	2.4	17	2.8	1.6	1.8	9.6
.	.	.	.	.	.	.	.	.
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	21.70	18.23	26.28	32.40	15.10	14.33	31.80	4.45
Gross Alpha (CE+/-)	3.50	3.00	3.60	4.70	3.00	2.70	4.00	2.10
Gross Beta (pCi/L)	30.40	49.55	123.86	36.20	14.12	33.87	81.75	7.58
Gross Beta (CE+/-)	5.20	5.50	7.50	4.30	4.60	4.90	6.30	3.00
Uranium 234 (pCi/L)	5.62	1.74	14.40	13.20	3.49	2.28	8.54	2.59
Uranium 234 (CE+/-)	3.10	1.70	5.20	4.90	2.50	2.00	4.20	2.10
Uranium 235 (pCi/L)	0.00	1.31	0.87	0.46	0.44	2.74	0.48	0.00
Uranium 235 (CE+/-)	1.50	1.50	1.20	0.91	0.90	2.20	1.00	1.50
Uranium 238 (pCi/L)	9.08	6.10	20.90	10.50	3.49	10.00	14.70	2.59
Uranium 238 (CE+/-)	4.00	3.30	6.00	4.60	2.50	4.30	5.30	2.40

(CONTINUED)

APPENDIX E
Surface-Water Quality Data, 1991

Surface Water Location	SS-6				SS-8			
Date Sampled	01/18/91	04/10/91	07/29/91	12/04/91	01/18/91	04/10/91	07/29/91	12/04/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	11.8	9.6	9.5	11.5	9.6	9	9.5	8.4
pH, Field (pH units)	7.7	8	8	7.7	7.4	7.8	8	7.2
Sp. Cond., Field (umho/cm)	140	175	390	100	160	172	390	120
Temp, Field (degrees C)	9.9	15.7	20.6	10.7	11.6	12.9	20.6	11.1
pH, 1 (pH units)	6.9	6.9	8.4	7.8	6.7	6.9	8	7.1
Sp. Cond., 1 (umho/cm)	154	201	282	166	164	219	307	186
TDS (mg/L)	96	126	160	81	118	146	176	104
TSS (mg/L)	2	2	2	2	1	1	3	6
Turbidity (NTU)	4.7	2	1.7	4	3.4	2.3	1.3	6.6
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.02	0.18	0.66	1.45	-0.16	0.77	-0.18	-0.44
Gross Alpha (CE+/-)	1.50	0.90	1.30	1.60	1.50	1.10	1.20	1.20
Gross Beta (pCi/L)	-2.43	-3.67	0.95	0.74	-5.26	0.18	1.35	1.40
Gross Beta (CE+/-)	3.80	3.10	3.20	2.60	3.70	3.30	3.20	2.70
Uranium 234 (pCi/L)	0.00	0.42	-0.41	0.87	0.00	0.43	-0.43	0.00
Uranium 234 (CE+/-)	1.40	0.80	0.80	1.20	1.50	0.90	0.90	1.40
Uranium 235 (pCi/L)	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uranium 235 (CE+/-)	0.80	1.40	1.40	1.50	1.50	1.50	1.50	1.40
Uranium 238 (pCi/L)	0.00	0.42	0.41	-0.43	0.00	0.00	0.43	0.00
Uranium 238 (CE+/-)	1.40	0.80	0.80	0.87	1.50	1.50	0.90	1.60

APPENDIX F
QA/QC SAMPLE DATA SUMMARIES

EXPLANATION

All results in micrograms per Liter (ug/L).

Compound not detected at the following minimum attainable detection limits (ug/L):

G	=	5	T	=	250
N	=	10	F	=	300
V	=	20	E	=	400
Z	=	25	W	=	500
D	=	30	L	=	1000
A	=	40	P	=	2000
M	=	50	H	=	4000
X	=	80	J	=	5000
Y	=	90	S	=	10000
K	=	100	U	=	20000
B	=	130	C	=	40000
R	=	200			

The following compounds were not detected in any of the laboratory blank, trip blank, or equipment rinsate samples at the given minimum attainable detection limit:

<u>Compound</u>	<u>Detection Limit (ug/L)</u>
Benzene	5
Bromomethane	10
Chlorobenzene	5
Chlorodibromomethane	5
Chloroethane	10
1,1-Dichloroethane	5
1,2-Dichloroethane	5
1,1-Dichloroethene	5
cis-1,3-Dichloropropene	5
trans-1,3-Dichloropropene	5
Styrene	5
Vinyl chloride	10

LABORATORY BLANK SAMPLE DATA

APPENDIX F
Laboratory Blank Data Summary, First Quarter 1991

Sample No.	910108-056	910109-127	910110-131	910111-224	910115-056	910117-120	910117-123	910118-001	910118-227	910122-001
Acetone	N	N	N	N	N	N	N	N	N	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	4	N	N
Methylene chloride	G	G	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	1
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910122-065	910123-001	910123-042	910124-001	910125-002	910125-051	910125-091	910127-003	910129-003	910129-045
Acetone	N	N	N	N	N	N	N	N	N	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	4	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	1	G	G	G
1,1,2,2-Tetrachloroethane	G	2	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Laboratory Blank Data Summary, First Quarter 1991

Sample No.	910130-018	910130-138	910131-001	910201-005	910201-038	910204-003	910204-040	910205-001	910206-003	910206-026
Acetone	N	N	N	N	N	N	N	N	N	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910206-035	910207-001	910207-065	910211-003	910212-001	910212-031	910214-004	910214-065	910214-068	910219-020
Acetone	N	N	N	N	N	N	N	N	N	N
Bromoform	G	G	G	G	G	G	G	3	G	G
Chloroform	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	6	N	5
Methylene chloride	G	G	G	G	0.8	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	3	G	G
Toluene	G	G	G	0.8	1	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	2	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	2	3	G	G	G	G	G

(CONTINUED)

APPENDIX F
Laboratory Blank Data Summary, First Quarter 1991

Sample No.	910221-003	910221-086	910222-036	910228-000	910228-074	910301-008	910301-183	910304-003	910305-003	910306-003
Acetone	N	N	N	N	16	N	N	N	N	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Chloroform	G	0.8	0.7	G	0.8	G	0.8	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	2	1	G	2	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	1	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910307-001	910307-059	910308-001	910311-001	910312-001	910312-057	910313-004	910315-054	910318-001	910319-001
Acetone	N	11	N	N	N	N	N	N	N	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Chloroform	G	0.8	G	G	G	0.8	G	0.8	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	1	G	1	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F

[illegible]

(CONTINUED)

[illegible]

APPENDIX F
Laboratory Blank Data Summary, Second Quarter 1991

Sample No.	910405-003	910405-041	910408-001	910409-002	910409-007	910411-003	910412-001	910412-194	910415-001	910415-119
Acetone	N	N	N	N	N	N	N	N	N	N
Chloroform	0.8	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910416-001	910416-109	910417-090	910418-028	910419-001	910419-031	910422-001	910422-149	910422-196	910423-035
Acetone	N	N	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910424-072	910425-043	910426-189	910429-001	910430-001	910430-004	910501-001	910501-008	910503-166	910506-001
Acetone	N	N	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	0.9	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Laboratory Blank Data Summary, Second Quarter 1991

Sample No.	910506-117	910506-118	910507-134	910508-058	910513-053	910514-062	910515-003	910516-017	910517-003	910517-053
Acetone	N	N	N	N	6	N	N	N	23	N
Chloroform	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910519-001	910519-004	910520-098	910521-001	910521-065	910528-039	910528-042	910529-066	910530-029	910531-316
Acetone	N	N	N	N	N	9	N	N	N	N
Chloroform	G	G	G	G	G	0.6	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	15	G	17	17	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	2	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910605-001	910605-078	910610-001	910610-043	910611-088	910612-115	910613-058	910614-276	910619-079	910620-027
Acetone	N	N	N	N	14	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	4
Methylene chloride	G	G	G	G	G	G	G	G	G	17
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Laboratory Blank Data Summary, Second Quarter 1991

Sample No.	910620-099	910621-238	910622-012	910623-001	910623-005	910624-176	910627-065	910628-240	910629-004	910629-013
Acetone	N	N	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	2	N	N
Methylene chloride	G	G	G	16	G	17	17	16	G	16
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	2	G	G	G	0.8	G	G	G	0.9	G

(CONTINUED)

Sample No.	910703-089	910911-155	910911-156	910911-157	910911-158	910911-159
Acetone	N	N	N	N	9	N
Chloroform	G	G	G	G	G	G
4-Methyl-2-pentanone	3	N	N	N	N	N
Methylene chloride	17	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G

APPENDIX F
Laboratory Blank Data Summary, Third Quarter 1991

Sample No.	910708-060	910709-001	910711-001	910715-121	910716-039	910717-001	910718-001	910719-037	910719-208	910722-008
Acetone	N	N	N	N	N	N	N	11	N	N
Chloroform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	3	N	N	2	N	N
Methylene chloride	G	G	G	G	15	G	G	16	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	1	1	1	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910723-001	910724-009	910724-051	910726-209	910729-095	910731-071	910802-001	910805-002	910805-067	910807-002
Acetone	N	N	N	N	N	N	N	N	8	N
Chloroform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	2	2	N	2	N	N	2	N
Methylene chloride	G	G	16	15	16	16	G	G	G	G
Toluene	0.5	0.5	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	1	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Laboratory Blank Data Summary, Third Quarter 1991

Sample No.	910807-028	910807-140	910808-190	910809-048	910813-105	910813-116	910814-187	910814-205	910816-001	910816-257
Acetone	N	N	N	6	29	10	11	19	N	N
Chloroform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	3	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	1	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910818-009	910821-001	910822-087	910823-184	910824-001	910824-004	910827-087	910828-014	910828-017	910829-001
Acetone	N	N	7	N	N	N	18	N	16	N
Chloroform	G	G	G	G	G	G	G	G	0.6	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	0.7	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Laboratory Blank Data Summary, Third Quarter 1991

Sample No.	910829-045	910830-007	910831-002	910903-009	910903-085	910904-009	910904-186	910905-001	910906-001	910907-001
Acetone	N	N	N	N	N	N	N	N	N	N
Chloroform	0.6	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	0.7	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	4	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G	G	G
Toluene	G	0.6	0.9	4	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	4	G	G	G	G	G	G

(CONTINUED)

Sample No.	910909-002	910909-054	910909-118	910910-005	910911-002	910913-009	910913-175	910914-001	910915-022	910916-007
Acetone	N	N	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	2	N	N	N	N	N
Methylene chloride	G	1	G	G	0.5	0.6	G	G	G	G
Toluene	G	G	G	G	0.6	0.8	G	0.8	G	1
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Laboratory Blank Data Summary, Third Quarter 1991

Sample No.	910916-189	910917-003	910918-020	910918-034	910920-002	910922-006	910923-006	910924-036	910925-001	910926-001
Acetone	11	N	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	1	G	G	G	G	G	G
Toluene	G	1	2	1	2	G	G	G	0.7	0.8
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910926-030	910928-001	910928-025	910930-003	911001-002
Acetone	N	N	N	N	N
Chloroform	G	G	G	G	G
Ethylbenzene	G	G	G	G	0.4
4-Methyl-2-pentanone	3	N	3	N	N
Methylene chloride	1	G	0.9	G	G
Toluene	1	1	1	3	3
1,1,1-Trichloroethane	G	G	G	G	G
Vinyl acetate	N	N	N	N	N
Xylenes	G	G	G	G	G

APPENDIX F
Laboratory Blank Data Summary, Fourth Quarter 1991

Sample No.	911002-178	911002-181	911004-001	911006-001	911007-005	911008-043	911009-001	911010-003	911010-128	911011-001
Acetone	N	9	N	N	N	N	N	N	13	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	0.6	G	G	G	G	G	G	G	G	G
2-Hexanone	N	2	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	4	N	N	N	N	N	N	N	5
Methylene chloride	1	0.8	G	G	G	G	G	G	1	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
Toluene	4	1	G	G	G	G	0.8	1	G	1
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	3	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	911011-174	911011-197	911012-001	911014-002	911015-015	911015-125	911016-009	911017-001	911021-002	911022-001
Acetone	N	5	N	N	N	N	N	N	N	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	2	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	2	N	N	N	N	N	N	5	N
Methylene chloride	G	1	G	G	0.8	1	G	1	G	G
1,1,2,2-Tetrachloroethane	1	G	G	G	G	G	G	G	G	G
Toluene	G	G	2	2	G	G	G	0.4	3	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Laboratory Blank Data Summary, Fourth Quarter 1991

Sample No.	911023-005	911024-001	911027-029	911028-002	911028-036	911029-007	911029-107	911030-001	911031-001	911101-243
Acetone	N	N	N	N	N	N	N	N	N	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	1	G	G	1	G	1	G	0.9	1
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
Toluene	G	0.5	G	0.9	G	1	G	2	2	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	911104-002	911105-048	911107-008	911108-001	911109-001	911111-002	911112-001	911113-074	911114-001	911118-002
Acetone	N	N	N	N	N	N	N	11	N	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	1	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	2	N	N
Methylene chloride	G	1	1	G	G	1	G	G	G	1
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	1	G	G
Toluene	G	G	1	1	1	1	1	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Laboratory Blank Data Summary, Fourth Quarter 1991

Sample No.	911119-001	911119-096	911121-001	911121-053	911125-054	911125-059	911126-026	911126-111	911202-028	911202-038
Acetone	N	N	N	N	N	N	N	N	N	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	11	1	N	N	N	1	N
4-Methyl-2-pentanone	N	N	N	5	N	N	N	N	2	N
Methylene chloride	1	1	1	1	G	1	1	1	1	1
1,1,2,2-Tetrachloroethane	G	G	G	4	1	G	G	G	1	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	1	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	911204-011	911206-055	911209-078	911210-027	911213-001	911216-002	911216-020	911217-001	911217-046	911217-057
Acetone	N	N	N	N	3	N	N	N	N	N
Bromoform	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	2	N
4-Methyl-2-pentanone	3	N	N	N	N	N	2	N	N	N
Methylene chloride	G	1	3	3	1	1	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F

Laboratory Blank Data Summary, Fourth Quarter 1991

[illegible]

TRIP BLANK SAMPLE DATA

APPENDIX F
Trip Blank Data Summary, First Quarter 1991

Sample No.	910105-022	910105-025	910105-028	910107-042	910107-048	910109-189	910110-022	910110-025	910110-032	910111-187
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	2	G	0.8	0.8	G	G	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethene	G	G	G	5	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	9	14
Methylene chloride	G	3	G	8	G	G	G	G	G	7
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910112-005	910112-008	910112-041	910112-043	910114-111	910114-112	910115-011	910115-012	910115-013	910116-015
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	10	10	11	11	11	11	13	13
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	4	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, First Quarter 1991

Sample No.	910116-020	910116-036	910116-064	910116-069	910116-077	910116-108	910116-159	910119-038	910119-039	910122-021
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	2	2	G
Chloroform	G	13	12	1	11	1	0.7	8	8	G
Chloromethane	N	N	N	N	N	N	N	0.8	N	N
1,2-Dichloroethene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	4	1	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910123-066	910124-049	910125-011	910126-005	910126-010	910127-049	910127-052	910128-133	910129-010	910129-017
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	G	0.3	0.8	2	2	G	G	1	G	G
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	2	3	11	4	G	G	G	2	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, First Quarter 1991

Sample No.	910129-024	910130-034	910130-061	910130-120	910130-158	910201-010	910201-015	910201-174	910201-259	910201-267
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	17	G	1	1	11	5	4	2	5	16
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethane	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	6	N	N
Methylene chloride	G	G	G	G	G	G	G	G	G	G
Toluene	0.4	0.4	G	G	0.8	G	G	0.8	1	G
Xylenes	G	G	G	G	G	G	G	3	G	G

(CONTINUED)

Sample No.	910203-025	910204-075	910204-078	910204-118	910204-131	910208-006	910208-009	910209-039	910209-046	910209-068
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	11	G	4	G	2	16	10	G	G	1
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethane	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	7	G	G	G	G	G
Toluene	G	G	G	G	G	1	0.8	G	G	0.8
Xylenes	G	G	G	G	G	G	3	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, First Quarter 1991

Sample No.	910210-036	910210-039	910210-046	910211-209	910212-026	910212-111	910213-048	910213-111	910214-127	910215-045
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	3	2	2	G	1	2	1
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	2	2	G	G	G	G	G
Toluene	1	0.9	G	G	G	G	G	G	G	G
Xylenes	G	3	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910221-016	910221-019	910221-297	910221-303	910224-084	910224-089	910224-096	910225-071	910225-121	910225-167
Acetone	N	N	6	N	10	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	1	1	G	G	2	G	2	G	1	2
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	2	G	G	8	G	G	5
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, First Quarter 1991

Sample No.	910227-046	910227-101	910227-141	910301-007	910301-158	910301-163	910302-009	910302-012	910302-041	910302-051
Acetone	N	N	N	N	N	N	N	8	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	G	0.5	0.8	G	G	G	G	2	1	G
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	3	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910305-012	910306-017	910306-109	910307-006	910307-009	910308-010	910308-062	910309-046	910310-022	910310-027
Acetone	N	N	N	N	N	10	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	2	0.7	G	G	2	14	2	2	3	2
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	3	G	2	2	G	9	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, First Quarter 1991

Sample No.	910310-032	910312-076	910312-079	910314-031	910315-014	910315-017	910316-153	910318-022	910318-025	910319-008
Acetone	N	8	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	7	G	G	G	G	G	G
Chloroform	1	17	3	35	G	4	G	G	6	4
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	4	G	G	2	G	G	G	G
Toluene	G	G	G	G	G	C	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910319-011	910319-014	910319-024	910320-013	910320-020	910320-088	910321-009	910321-014	910321-033	910322-022
Acetone	N	N	N	N	N	N	N	11	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	0.4	8	4	3	14	2	G	13	19	4
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	5	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F

Trip Blank Data Summary, First Quarter 1991

Sample No.	910322-003	910323-026	910325-012	910325-015	910326-019	910326-078	910327-014	910327-026	910328-024	910328-029
Acetone	N	N	N	N	N	N	N	9	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Chloroform	G	1	2	2	G	2	2	21	22	2
Chloromethane	N	N	N	N	N	N	N	N	N	N
1,2-Dichloroethene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	3	G	G	7	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910328-032	910330-003
Acetone	N	N
Bromodichloromethane	G	G
Chloroform	22	14
Chloromethane	N	N
1,2-Dichloroethene	G	G
4-Methyl-2-pentanone	N	N
Methylene chloride	G	G
Toluene	G	G
Xylenes	G	G

APPENDIX F
Trip Blank Data Summary, Second Quarter 1991

Sample No.	910403-113	910404-012	910404-075	910405-012	910405-022	910405-029	910408-040	910408-205	910410-114	910410-129
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	G	14	G	3	G	G	15	G	1	8
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Methylene chloride	G	G	G	3	G	G	6	G	G	7
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910411-008	910411-019	910411-023	910411-032	910411-035	910411-108	910411-115	910411-147	910411-148	910413-058
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	3	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	G	3	0.8	G	2	15	0.8	G	16	15
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Methylene chloride	G	G	2	16	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Second Quarter 1991

Sample No.	910413-064	910413-067	910415-012	910415-019	910416-012	910416-017	910416-025	910416-028	910420-017	910423-012
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	G	3	G	G	2	G	G	10	G	2
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Methylene chloride	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910423-046	910424-025	910425-037	910427-006	910427-009	910427-016	910427-023	910427-028	910430-107	910502-011
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	6	G	12	2	G	2	G	G	7	7
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Methylene chloride	G	G	G	G	G	G	G	G	3	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Second Quarter 1991

Sample No.	910502-014	910502-023	910502-032	910502-080	910503-004	910503-010	910504-035	910504-042	910506-013	910506-023
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	5	8	9	8	4	G	G	G	5	2
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Methylene chloride	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910507-024	910508-061	910508-064	910508-075	910509-010	910510-183	910511-010	910511-021	910512-010	910512-015
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	G	14	3	2	5	G	5	6	G	2
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Methylene chloride	G	G	2	G	3	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Second Quarter 1991

Sample No.	910512-018	910514-010	910514-015	910514-030	910515-027	910516-032	910517-030	910522-004	910522-015	910522-111
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	1	2	3	5	13	G	4	2
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Methylene chloride	G	G	G	G	G	G	G	G	16	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910522-114	910522-117	910523-205	910524-157	910525-003	910525-008	910525-013	910601-018	910601-025	910601-028
Acetone	N	N	N	N	N	N	N	N	N	8
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	0.6	G	G
Chloroform	G	4	3	3	7	5	9	12	4	1
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Methylene chloride	G	G	G	17	17	17	17	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Second Quarter 1991

Sample No.	910601-031	910601-052	910605-007	910605-012	910606-006	910606-011	910606-054	910606-057	910608-005	910608-008
Acetone	N	N	N	N	N	7	N	N	6	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	3	5	2	0.7	1	20	2	4	1	0.5
1,2-Dichloropropane	G	G	G	G	G	2	G	G	G	G
Methylene chloride	2	3	2	G	G	G	G	3	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910608-030	910610-008	910610-089	910613-005	910613-014	910614-082	910614-087	910614-091	910615-005	910615-010
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	4	G	22	28	27	16	13	19	6	3
1,2-Dichloropropane	G	G	0.8	G	G	G	G	0.8	G	G
Methylene chloride	4	G	G	G	G	G	17	G	17	17
1,1,1-Trichloroethane	G	G	0.8	G	G	2	G	2	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Second Quarter 1991

Sample No.	910617-056	910617-065	910617-074	910617-081	910618-021	910618-024	910618-027	910619-009	910620-009	910620-012
Acetone	10	9	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	0.7	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	2?	8	1	1	24	21	13	7	4	14
1,2-Dichloropropane	1	G	G	G	1	1	G	G	G	G
Methylene chloride	G	4	G	G	G	G	G	16	16	17
1,1,1-Trichloroethane	3	G	2	0.7	0.8	0.9	0.9	G	G	G

(CONTINUED)

Sample No.	910620-023	910620-040	910620-088	910621-060	910621-065	910621-213	910621-237	910624-011	910624-016	910624-073
Acetone	N	N	N	N	N	N	13	N	N	N
Bromodichloromethane	G	1	G	G	G	G	G	G	1	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	16	25	9	2	7	4	4	27	27	26
1,2-Dichloropropane	G	G	3	G	G	G	G	G	G	G
Methylene chloride	17	17	16	16	17	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	1	1	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Second Quarter 1991

Sample No.	910624-078	910624-118	910624-121	910624-126	910625-040	910625-078	910625-136
Acetone	N	N	N	N	N	N	9
Bromodichloromethane	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G
Chloroform	10	23	9	29	14	3	7
1,2-Dichloropropane	G	G	G	G	G	G	G
Methylene chloride	5	2	G	2	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	0.9

APPENDIX F
Trip Blank Data Summary, Third Quarter 1991

Sample No.	910701-095	910709-063	910709-163	910711-065	910712-009	910712-258	910715-018	910715-159	910715-169	910716-044
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	1	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	35	9	10	G	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	3	G	15	G	G	G	18	4	2
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	0.9	0.8	0.9	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910717-009	910718-009	910719-005	910719-216	910722-007	910722-069	910723-114	910727-043	910728-003	910730-010
Acetone	N	N	N	N	N	N	N	13	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	G	G	G	G	5	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	3	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	3	G	2	6	16	2	16	15	15	16
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Third Quarter 1991

Sample No.	910731-094	910731-101	910731-112	910731-119	910731-141	910802-228	910805-112	910806-103	910806-236	910807-187
Acetone	N	N	N	N	28	N	N	N	N	N
Bromodichloromethane	2	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	6	G	G	G	G	0.7	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	6	5	2	0.8	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910808-205	910809-013	910810-008	910810-015	910813-011	910813-014	910813-323	910814-014	910814-123	910814-220
Acetone	N	N	N	12	N	N	N	13	10	N
Bromodichloromethane	G	G	G	G	G	G	4	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	10	10	G
Chloroform	G	G	G	G	G	G	35	2	G	2
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	2	2	5
Toluene	G	G	G	G	G	G	G	1	1	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Third Quarter 1991

Sample No.	910815-285	910817-008	910819-192	910821-118	910822-035	910822-040	910823-154	910823-161	910823-164	910823-177
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	0.9	G	G	G	G
Chloroform	0.7	G	G	G	G	1	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	6	8	G	G	45	6	G	G	1
Toluene	1	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910824-013	910824-016	910825-005	910825-114	910826-024	910827-097	910827-109	910828-009	910828-025	910829-023
Acetone	N	17	N	16	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	1	G	G	G	G
Chloroform	G	G	G	1	G	3	G	4	G	1
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	1	G	120	0.7	5	G	9	G	14
Toluene	G	G	G	G	G	G	G	0.7	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Third Quarter 1991

Sample No.	910829-032	910831-016	910831-021	910901-007	910901-012	910903-029	910903-079	910904-132	910905-008	910905-013
Acetone	N	N	N	N	N	N	N	51	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	0.9	1	G	1	0.8	0.8	4	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	0.8	0.8	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	5	5	N	N	N	N	N	N	N
Methylene chloride	40	10	1	2	97	5	6	0.7	2	39
Toluene	0.9	4	4	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	4	4	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910905-064	910906-275	910906-280	910906-285	910907-010	910907-011	910908-005	910908-012	910908-034	910909-020
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	0.8	G	G	1	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	14	1	G	G	3	G	2	4	G	2
Toluene	G	G	G	G	G	G	G	G	G	0.5
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Third Quarter 1991

Sample No.	910909-163	910909-188	910910-031	910911-005	910911-008	910911-113	910912-008	910912-180	910912-183	910914-005
Acetone	N	N	N	N	N	28	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	5	G	G	G	G	G	G	G	G	G
Chloroform	G	1	G	G	G	G	G	0.7	G	G
1,2-Dichloropropane	4	G	G	G	2	G	G	G	1	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	2	N	N	N	N	N	N
Methylene chloride	10	6	26	6	G	7	5	6	G	G
Toluene	G	G	0.8	G	G	0.9	0.9	1	1	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910914-008	910914-013	910914-033	910915-008	910915-017	910915-049	910915-058	910918-107	910919-172	910919-177
Acetone	N	N	N	N	N	N	22	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	3	0.4	G	0.8	G	G	0.4	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	5	10	4	17	9	2	G	6	5	63
Toluene	G	G	1	1	G	2	2	3	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Third Quarter 1991

[illegible]

APPENDIX F
Trip Blank Data Summary, Fourth Quarter 1991

Sample No.	911001-102	911002-124	911002-196	911002-201	911002-212	911002-220	911004-454	911004-461	911004-468	911005-014
Acetone	N	N	N	N	N	25	N	N	N	25
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	0.7
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	0.7	G	2	G	G	G	0.7	1	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	0.6	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	3	N	N	N	N
Methylene chloride	G	20	1	0.6	6	6	17	G	54	20
Toluene	3	4	G	G	G	4	0.4	0.5	0.7	0.8
Xylenes	3	G	G	G	G	3	G	G	G	G

(CONTINUED)

Sample No.	911005-019	911006-013	911006-032	911006-035	911007-008	911007-017	911008-107	911009-011	911009-014	911010-154
Acetone	N	N	27	46	N	N	N	7	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	0.6	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	0.7	0.7	0.9	G	0.7	1	0.5	1	2	2
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	4	15	6	7	2	9	1	2	6	8
Toluene	1	1	2	1	2	2	G	G	G	2
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Fourth Quarter 1991

Sample No.	911011-006	911012-011	911014-024	911014-033	911014-056	911014-146	911015-024	911015-061	911015-115	911016-005
Acetone	N	N	N	N	N	N	2	3	N	37
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	2	2	2	2	2	G	2	2	2	2
1,2-Dichloropropane	G	G	G	G	G	1	G	G	2	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	47	G	9	9	18	2	36	7	2	1
Toluene	2	G	G	G	G	G	G	G	G	0.6
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	911018-016	911018-025	911019-006	911020-005	911020-010	911021-120	911022-149	911023-024	911023-101	911023-172
Acetone	N	N	N	N	N	44	N	N	42	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	3	3	3	G	2	2	2	2	2	0.8
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	5	N	N	N	N	N	N	N	N
Methylene chloride	1	13	2	1	60	17	130	71	11	1
Toluene	3	3	3	G	G	G	G	0.6	1	1
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Fourth Quarter 1991

Sample No.	911023-177	911023-182	911024-078	911024-081	911027-007	911027-010	911027-063	911027-066	911028-013	911028-020
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	1	0.8	3	1	G	G	2	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	3	N	N	N
Methylene chloride	2	G	2	2	G	1	G	49	1	1
Toluene	G	0.9	G	1	1	1	2	2	1	2
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	911028-091	911029-003	911029-006	911029-148	911030-006	911031-011	911031-029	911031-074	91101-107	911102-024
Acetone	N	N	N	N	N	N	N	N	21	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	0.6	0.7	2	2	G	G	0.7	G	G	3
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	3	N	N	4	N	N	N	N
Methylene chloride	1	1	3	5	1	6	7	2	G	1
Toluene	G	2	2	2	2	2	G	G	0.8	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Fourth Quarter 1991

Sample No.	911103-068	911103-071	911103-074	911103-079	911103-102	911104-009	911105-014	911105-019	911106-003	911106-058
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	0.8	G	G	G	G	G	1	G	:	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	P	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	2	2	1	2	2	0.9	0.9	G	0.9	3
Toluene	1	1	G	1	1	1	1	1	1	1
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	911106-088	911106-095	911108-019	911108-022	911108-025	911111-041	911111-060	911112-124	911113-023	911115-086
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	0.7	0.3	G	G	0.7	2	G	0.6
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	2	3	1	2	G	2	6
Toluene	2	1	2	2	1	1	2	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Fourth Quarter 1991

Sample No.	911115-089	911115-393	911118-026	911118-029	911118-034	911118-052	911119-038	911119-039	911120-020	911120-045
Acetone	N	N	N	N	N	N	N	N	N	11
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	G	2	2	G	G	2	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	1
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	3	9	G	5	G	G	2	2	7	2
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	911121-030	911121-087	911121-224	911122-095	911122-132	911124-016	911124-023	911125-039	911126-017	911126-029
Acetone	N	N	N	N	11	N	N	N	30	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	2	G	1	2
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	1	2	G	1	G	3	G	3	4	G
1,2-Dichloropropane	G	G	G	G	1	G	G	3	4	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	18	G	4	G	2	6	7	G	5	3
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Trip Blank Data Summary, Fourth Quarter 1991

Sample No.	911127-018	911205-059	911206-021	911209-153	911211-044	911211-107	911213-008	911213-013	911215-005	911215-049
Acetone	N	N	N	N	N	N	N	9	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	2	G	C	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	2	3	3	2	3	G	2
1,2-Dichloropropane	2	G	G	G	6	7	6	9	1	1
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	16	G	15	23	5	7	14	2	1	1
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	911216-080	911217-012	911218-023	911218-069	911220-007	911220-038	911220-106	911222-003	911223-004	911227-063
Acetone	N	N	N	N	N	N	N	N	N	29
Bromodichloromethane	G	G	5	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	2	G
Carbon tetrachloride	G	G	G	0.8	G	G	G	G	G	G
Chloroform	3	0.5	38	45	4	4	G	2	G	2
1,2-Dichloropropane	G	G	G	G	G	G	G	G	1	1
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	2	N	N	N	N	N	N
Methylene chloride	G	G	0.8	G	G	G	G	G	1	26
Toluene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F

Trip Blank Data Summary, Fourth Quarter 1991

Sample No.	911228-004
Acetone	N
Bromodichloromethane	G
Carbon disulfide	G
Carbon tetrachloride	G
Chloroform	3
1,2-Dichloropropane	2
Ethylbenzene	G
4-Methyl-2-pentanone	N
Methylene chloride	9
Toluene	G
Xylenes	G

EQUIPMENT RINSATE SAMPLE DATA

APPENDIX F
Equipment Rinse Data Summary, First Quarter 1991

Sample No.	910107-043	910107-060	910108-078	910109-190	910111-178	910112-009	910114-113	910116-021	910116-070	910117-119
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	3	G	G	G	G	G
2-Butanone	N	N	N	N	N	N	N	N	N	N
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	G	18	G	G	G	G	G
4-Methyl-2-pentanone	9	N	N	5	N	N	N	N	N	N
Tetrachloroethene	G	G	G	G	G	G	1	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	1	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910125-014	910126-024	910130-035	910201-260	910205-078	910208-021	910210-041	910212-112	910221-298	910222-009
Acetone	N	N	N	N	N	N	N	20	N	13
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
2-Butanone	N	N	N	N	N	N	N	N	N	N
Carbon tetrachloride	G	G	G	G	4	G	G	G	G	G
Chloroform	G	0.5	C	G	G	12	G	G	G	0.9
4-Methyl-2-pentanone	N	N	4	N	N	N	N	N	N	N
Tetrachloroethene	1	G	G	G	G	G	G	G	G	G
Toluene	G	G	0.6	G	G	0.9	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	3	G	G	G	G

(CONTINUED)

APPENDIX F
Equipment Rinsate Data Summary, First Quarter 1991

Sample No.	910225-122	910225-123	910227-104	910227-149	910301-164	910305-013	910305-014	910310-033	910310-034	910314-032
Acetone	N	10	N	N	N	N	N	27	38	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
2-Butanone	N	N	N	N	N	N	N	N	16	N
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	0.8	1	G	G	G	G	G	5	10	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Tetrachloroethene	G	G	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910314-033	910316-012	910320-089	910320-090	910320-091	910321-034	910323-004	910324-017	910325-018	910327-015
Acetone	10	10	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
2-Butanone	N	N	N	N	N	N	N	N	N	N
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	1	0.9	G	G	G	1	G	G	0.9	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Tetrachloroethene	G	G	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Equipment Rinsate Data Summary, First Quarter 1991

Sample No.	910327-072	910328-033	910330-004	910403-044
Acetone	N	N	N	N
Bromodichloromethane	G	G	G	G
2-Butanone	N	N	N	N
Carbon tetrachloride	G	G	G	G
Chloroform	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N
Tetrachloroethene	G	G	G	G
Toluene	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G
Xylenes	G	G	G	G

APPENDIX F
Equipment Rinseate Data Summary, Second Quarter 1991

Sample No.	910405-013	910408-041	910411-025	910411-036	910413-059	910416-060	910416-061	910416-062	910418-037	910422-152
Acetone	N	N	N	N	N	N	N	N	N	N
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	G	G	G	G	G	G	G
Methylene chloride	G	G	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	1	G	G	G	2	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910427-029	910502-081	910502-082	910508-076	910509-041	910511-022	910512-019	910515-060	910523-206	910523-207
Acetone	N	N	N	N	N	N	N	N	N	N
Carbon tetrachloride	G	G	G	1	G	G	G	G	G	G
Chloroform	G	G	G	G	G	G	G	G	G	G
Methylene chloride	G	G	G	G	G	G	G	G	G	16
Tetrachloroethene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910601-032	910608-034	910613-078	910614-079	910614-088	910617-082	910617-083	910618-054	910620-041	910620-089
Acetone	N	N	N	N	N	N	N	N	N	N
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	21	G	G	2	G	G	G	G
Methylene chloride	G	G	G	G	G	G	G	G	16	15
Tetrachloroethene	G	G	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	2	2	0.6	0.6	0.9	G	G

(CONTINUED)

APPENDIX F

Equipment Rinsate Data Summary, Second Quarter 1991

Sample No.	910621-203	910621-204	910624-017	910624-079	910624-081	910625-041	910625-079	910625-080	910627-061
Acetone	N	N	N	N	N	2	N	N	11
Carbon tetrachloride	G	G	G	G	G	G	G	G	G
Chloroform	G	0.9	G	G	G	G	G	19	G
Methylene chloride	G	G	3	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	6	G
1,1,1-Trichloroethane	0.8	0.7	G	G	G	G	G	G	0.8

APPENDIX F
Equipment Rinsate Data Summary, Third Quarter 1991

Sample No.	910712-073	910715-160	910715-170	910718-085	910719-217	910727-044	910801-271	910801-272	910806-104	910813-040
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	1	G	G	1	G	0.7	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	15	16	G	G	G	16	G	0.9	G	G
Tetrachloroethene	G	G	2	G	G	G	G	G	G	G
Toluene	G	G	G	G	0.5	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910814-120	910814-121	910817-009	910819-107	910820-010	910823-171	910823-172	910826-029	910826-045	910827-092
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	6	G	5	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	40	G	40	2	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	0.6	G	G	G
Tetrachloroethene	G	G	G	0.7	G	0.9	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Equipment Rinse Data Summary, Third Quarter 1991

Sample No.	910829-024	910903-080	910903-081	910903-082	910906-276	910906-277	910908-001	910908-002	910909-015	910909-189
Acetone	N	13	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	2	G	G	G	G	G	G	G
Carbon disulfide	G	G	G	G	G	G	0.8	8	G	G
Carbon tetrachloride	2	G	G	G	G	G	G	G	G	G
Chloroform	G	G	19	2	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	2	5	4	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N	N	N
Methylene chloride	G	G	1	G	G	G	G	G	G	0.9
Tetrachloroethene	G	G	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	0.7	0.8
Trichloroethene	G	G	G	G	G	G	G	G	G	G
Xylenes	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	910911-110	910914-014	910914-030	910916-051	910919-050	910922-011	910923-070	910924-037	910928-007	910928-008
Acetone	N	N	N	N	N	N	N	N	N	N
Bromodichloromethane	G	G	G	G	G	G	G	G	G	G
Carbon disulfide	G	1	2	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	G	G	G	0.8	0.5	0.4	G
1,2-Dichloropropane	G	G	G	G	G	G	G	1	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	1
4-Methyl-2-pentanone	N	N	N	N	N	N	N	2	N	N
Methylene chloride	G	G	G	G	G	G	G	0.7	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G	20	G
Toluene	0.9	G	G	2	3	1	0.7	1	3	4
Trichloroethene	G	G	G	G	G	G	G	G	3	G
Xylenes	G	G	G	G	G	G	G	G	G	5

(CONTINUED)

APPENDIX F
Equipment Rinsate Data Summary, Third Quarter 1991

Sample No.	910930-037
Acetone	N
Bromodichloromethane	G
Carbon disulfide	G
Carbon tetrachloride	G
Chloroform	G
1,2-Dichloropropane	G
Ethylbenzene	0.5
4-Methyl-2-pentanone	N
Methylene chloride	0.7
Tetrachloroethene	G
Toluene	3
Trichloroethene	G
Xylenes	G

APPENDIX F
Equipment Rinsate Data Summary, Fourth Quarter 1991

Sample No.	911002-221	911005-020	911005-021	911005-022	911006-041	911007-099	911011-002	911011-003	911021-116	911022-150
Acetone	11	N	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G	G	G
Chloroform	G	G	G	G	G	G	0.2	0.4	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G	G	G
Ethylbenzene	0.5	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	2	N	N	N	N
Methylene chloride	G	G	G	G	G	1	0.7	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	0.4	G	G	0.8	G	G	G
Toluene	3	0.9	1	1	0.9	G	2	2	G	G
Trichloroethene	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	911022-221	911022-222	911027-001	911027-002	911028-108	911029-220	911102-021	911112-034	911112-035	911112-036
Acetone	N	N	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	0.8	G	G	G	G	G	G
Chloroform	G	0.7	1	G	0.6	G	G	G	5	G
1,2-Dichloropropane	G	G	G	G	G	G	G	1	G	1
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	2	3	5
Methylene chloride	0.9	1	1	1	1	1	1	G	G	1
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G	G	G
Toluene	0.6	0.6	G	G	G	2	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Equipment Rinseate Data Summary, Fourth Quarter 1991

Sample No.	911112-037	911113-083	911115-390	911118-053	911120-024	911121-158	911122-129	911124-051	911124-052	911127-051
Acetone	N	N	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	3	G	G	G	G	G
Chloroform	0.7	0.6	G	G	G	G	1	G	G	1
1,2-Dichloropropane	G	G	G	G	1	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	4	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	4	N	N	N	N	N
Methylene chloride	1	G	2	G	1	G	G	G	G	1
1,1,2,2-Tetrachloroethane	G	G	G	G	2	G	G	G	G	G
Tetrachloroethene	G	G	G	G	G	G	G	G	G	G
Toluene	G	G	G	G	G	G	G	G	G	G
Trichloroethene	G	G	G	G	G	G	G	G	G	G

(CONTINUED)

Sample No.	911213-274	911213-275	911213-276	911221-001	911227-060	911228-003
Acetone	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G
Chloroform	2	2	2	2	2	2
1,2-Dichloropropane	2	G	2	G	3	2
Ethylbenzene	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	1
Methylene chloride	G	2	G	G	7	8
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	10	G
Toluene	G	G	G	G	G	G
Trichloroethene	G	G	G	G	1	G

FIELD DUPLICATE SAMPLE DATA

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-064		GW-071		GW-075		GW-085	
Location	OLF		BG		OLF		OLF	
Date Sampled	08/14/91		03/24/91		01/28/91		05/09/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.064	<0.02	0.52	0.45	0.42	0.14	0.038	0.021
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05
Barium	0.042	0.041	0.069	0.035	0.082	0.062	0.57	0.56
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.022	0.025	0.6	0.68	0.57	0.43	0.017	0.0099
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	0.006	0.0049	<0.004	<0.004
Iron	0.083	<0.005	0.025	0.017	0.11	0.061	0.024	<0.005
Lead (AAS)	0.0045	<0.004	<0.004	0.0059	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.9	5	6.3	6.6	4.6	1.6	7.4	7.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.1	0.23	0.12	0.12	0.1	0.43	0.43
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0099	0.0065	0.016	<0.002	0.006	0.008	0.025	0.026
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	279	.	175	.	419	.	120	.
Alkalinity-CO ₃	<1	.	494	.	68	.	<1	.
Calcium	100	110	6	0.74	1.7	1.1	190	180
Chloride	11	.	43	.	6	.	6	.
Fluoride	<0.1	.	3.8	.	5.2	.	<0.1	.
Magnesium	15	16	0.12	0.1	0.41	0.34	13	12
Manganese	0.0031	<0.001	0.002	<0.001	0.0019	0.0012	0.002	0.0021
Nitrate-N	7	.	<0.2	.	<0.2	.	111	.
Potassium	1.6	1.6	3.1	3.7	2.2	2	1.7	1.7
Sodium	4.5	4.5	370	360	230	230	9.7	9.8
Sulfate	21	.	31	.	24	.	7	.

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-095				GW-115			
	BG				S3			
	03/19/91		06/18/91		01/05/91		04/03/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.17	0.14	0.049	0.038	0.094	0.042	<0.02	<0.02
Ancimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.059	<0.05
Barium	0.027	0.025	0.026	0.011	0.23	0.23	0.25	0.24
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	2.4	2.2	1	1	0.1	0.11	0.016	0.017
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	0.014	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	0.0047	<0.004	<0.004	<0.004	0.0046
Iron	0.048	0.064	0.009	0.025	0.32	0.27	0.36	0.044
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.034	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	4.3	4.2	4	4.3	9.6	3.7	9.6	9.5
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.099	0.1	0.08	0.1	0.1	0.11	0.11
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.005	0.0049	0.0068	0.0066	0.002	<0.001	0.0088	0.027
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	229	.	225	.	205	.	216	.
Alkalinity-CO3	36	.	36	.	<1	.	<1	.
Calcium	1.5	1.5	1.4	1.2	64	66	67	66
Chloride	1	.	1	.	3	.	3.1	.
Fluoride	0.5	.	0.6	.	<0.1	.	<0.1	.
Magnesium	0.44	0.43	0.37	0.3	8.3	8.5	9.3	9.2
Manganese	0.003	0.003	0.0015	<0.001	0.084	0.088	0.16	0.16
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2	2	1.9	1.9	1.2	1.2	1.2	1.5
Sodium	130	120	120	120	7.6	7.7	8.4	8.4
Sulfate	11	.	10	.	16	.	18.6	.

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-162		GW-164		GW-227		GW-307	
	BG		BG		OLF		RS	
	06/11/91		03/05/91		08/31/91		01/14/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.043	<0.02	0.041	<0.02	0.11	0.08	0.86	0.065
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.27	0.24	0.17	0.17	0.11	0.11	0.071	0.067
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.032	0.032	0.045	0.057	0.97	0.96	0.039	0.039
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	0.0061	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.019	0.0062
Iron	1.4	0.009	0.34	0.43	0.86	0.16	0.99	0.0084
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	9.1	8.5	8.7	9.9	.	.	4.7	4.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.83	0.81	0.55	0.54	0.25	0.25	0.25	0.25
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.032	0.035	0.001	0.002
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.002	<0.002	0.0049	0.0049	0.0053	0.018	0.034	0.0054
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	115	.	183	.	278	.	319	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	31	31	30	29	120	120	160	170
Chloride	4	.	1	.	23	.	28	.
Fluoride	<0.1	.	<0.1	.	0.2	.	<0.1	.
Magnesium	5	5	16	15	25	25	15	15
Manganese	0.076	0.053	0.074	0.064	0.04	0.018	0.043	0.028
Nitrate-N	<0.2	.	<0.2	.	20.8	.	11	.
Potassium	2.6	2.9	2	1.8	1.9	2.1	4.7	4.3
Sodium	13	13	21	20	12	12	10	10
Sulfate	9	.	10	.	30	.	93	.

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-309		GW-314					
	RS		SPI					
	04/25/91		01/08/91		04/08/91		07/20/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
META S (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.038	<0.02	0.062	0.037	0.031	<0.02	<0.02	0.025
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.042	0.049	0.036	0.035	0.029	0.029	0.047	0.047
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.071	0.083	0.013	0.012	<0.004	<0.004	<0.004	<0.004
Cadmium (AAS)	<0.002	<0.0021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	0.01	<0.01	<0.01	0.014	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.0048	<0.004	<0.004	<0.004	<0.004	<0.004	0.0097	<0.004
Iron	0.021	0.0071	0.021	0.013	<0.005	<0.005	0.019	<0.005
Lead (AAS)	<0.004	<0.0042	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	3.6	3.7	4.8	4.8	4.5	4.5	4.4	4.3
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.38	0.39	0.095	0.092	0.06	0.061	0.14	0.14
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.002	0.002	<0.001	<0.001	<0.001	<0.001	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0074	0.014	0.0098	0.0082	<0.002	<0.002	0.36	0.0041
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	415	.	252	.	266	.	245	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	170	180	83	77	66	68	100	100
Chloride	34	.	2	.	2	.	8	.
Fluoride	<0.1	.	<0.1	.	<0.1	.	<0.1	.
Magnesium	22	24	14	14	19	19	16	16
Manganese	3.2	3.2	0.013	0.011	0.012	0.014	0.028	0.029
Nitrate-N	15	.	3.1	.	1	.	17.3	.
Potassium	3.8	3.8	1.8	1.7	1.1	1.1	2.2	1.7
Sodium	12	13	2	2	0.67	0.44	5	5.1
Sulfate	60	.	3	.	3	.	20	.

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-315		GW-344				GW-365	
	SPI		BG				OLF	
	10/05/91		09/08/91		11/07/91		05/14/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.054	0.047	<0.02	<0.02	<0.02	<0.02	0.043	0.021
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.061	0.06	0.17	0.18	0.18	0.17	0.32	0.32
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00036	<0.0003	<0.0003
Boron	0.86	0.057	0.048	0.027	0.045	0.042	0.2	0.2
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0083	<0.004
Iron	0.036	0.084	0.83	0.2	0.73	0.27	1.3	1.4
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	0.011	0.01	<0.01	<0.01	0.03	0.028
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	.	.	7.5	7.6
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.2	0.19	1.6	1.7	1.5	1.4	0.82	0.82
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.007
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0083	0.0082	0.0057	0.008	0.0095	0.0096	0.017	0.0071
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	233	.	134	.	140	.	318	.
Alkalinity-CO ₃	<1	.	<1	.	<1	.	<1	.
Calcium	120	120	30	32	31	28	130	130
Chloride	11	.	<1	.	<1	.	75	.
Fluoride	<0.1	.	0.1	.	0.1	.	<0.1	.
Magnesium	14	14	9.5	10	10	9.2	25	25
Manganese	0.0022	0.0024	0.073	0.073	0.073	0.065	0.075	0.077
Nitrate-N	34	.	<0.2	.	<0.2	.	<0.2	.
Potassium	2.9	3	2.7	3	2.8	2.7	3.6	3.6
Sodium	9.1	7.9	13	14	14	14	14	14
Sulfate	18	.	14	.	15	.	52	.

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-366		GW-537		GW-601		GW-613	
Location	OLF		OLF		OLF		S3	
Date Sampled	02/01/91		10/23/91		10/31/91		07/01/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	0.78	0.047	0.52	0.047	<0.02	0.031	0.35	0.034
Antimony	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.13	0.1	2.2	2.1	0.064	0.066	0.06	0.058
Beryllium	0.00042	<0.0003	<0.003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.031	0.026	0.11	0.018	0.075	0.13	0.013	0.011
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.03	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	0.043	<0.034	<0.04	0.009	<0.004	<0.004	<0.004	<0.004
Iron	0.38	<0.004	0.52	0.008	0.064	2.1	0.15	0.011
Lead (AAS)	0.012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	0.022	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	6.5	5.9	.	.	.	.	7.7	7.5
Silver	<0.006	<0.006	<0.06	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.07	0.061	2.5	2.5	1.4	1.4	0.046	0.046
Thorium	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.23	0.025	0.069	0.0058	0.012	0.015	0.0085	0.0091
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	276	.	229	.	194	.	80	.
Alkalinity-CO3	<1	.	<1	.	<1	.	<1	.
Calcium	68	63	1100	1020	77	77	30	29
Chloride	2	.	20	.	49	.	1	.
Fluoride	0.2	.	<0.1	.	0.3	.	0.1	.
Magnesium	32	32	72	68	38	38	2.9	2.8
Manganese	0.076	<0.001	0.028	0.0022	0.049	0.063	0.0076	0.0019
Nitrate-N	<0.2	.	838.56	.	31.45	.	<0.2	.
Potassium	1.9	1.5	7.0	3.1	1.8	2.2	<0.6	0.69
Sodium	3	1.8	28	28	23	22	3.6	3.6
Sulfate	4	.	<10	.	32	.	6	.

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No. Location Date Sampled	GW-639		GW-640		GW-683		GW-685	
	BG		BG		EXP		EXP	
	09/09/91		11/15/91		09/19/91		06/01/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	1.1	0.045	<0.02	<0.02	0.04	0.048	0.59	0.062
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.061	0.053	0.067	0.063	0.13	0.14	0.15	0.12
Beryllium	0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.59	0.33	0.011	0.0072	0.17	0.19	0.036	0.028
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	0.0052	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	0.0058	0.0042	<0.004	<0.004
Iron	1	0.045	0.042	0.0065	0.022	0.043	3.9	0.024
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.013	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	.	.	4.6	0.82
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.084	0.088	0.047	0.045	0.16	0.17	0.12	0.13
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	0.095	0.074	0.001	0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.012	0.0091	0.0088	0.0093	0.012	0.0043	0.033	0.0076
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO ₃	341	.	46	.	201	.	248	.
Alkalinity-CO ₃	78	.	<1	.	<1	.	<1	.
Calcium	0.93	0.92	16	15	81	86	83	85
Chloride	10	.	1	.	20	.	33	.
Fluoride	2.4	.	0.1	.	0.2	.	0.1	.
Magnesium	0.57	0.28	1.5	1.5	21	22	25	26
Manganese	0.0055	0.0024	0.0052	0.0041	0.0038	0.0037	0.42	0.14
Nitrate-N	<0.2	.	<0.2	.	19.42	.	2	.
Potassium	2.1	1.7	<0.6	0.63	2.6	2.5	1.3	1.6
Sodium	210	210	3.6	3.5	11	11	13	15
Sulfate	30	.	2	.	21	.	18	.

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-685	
	EXP	
	12/12/91	
	TOT	DIS
METALS (mg/L)	.	.
	.	.
Aluminum	0.09	<0.02
Antimony	<0.05	<0.05
Arsenic	<0.05	<0.05
Barium	0.094	0.09
Beryllium	<0.0003	<0.0003
Boron	0.031	0.035
Cadmium (AAS)	<0.002	<0.002
Cadmium	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01
Chromium	<0.01	<0.01
Cobalt	<0.005	<0.005
Copper	<0.004	<0.004
Iron	0.59	0.0098
Lead (AAS)	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002
Molybdenum	<0.01	<0.01
Nickel	<0.01	<0.01
Selenium	<0.05	<0.05
Silicon	.	.
Silver	<0.006	<0.006
Strontium	0.1	0.1
Thorium	<0.2	<0.2
Uranium (Fluor)	0.001	0.001
Vanadium	<0.005	<0.005
Zinc	0.013	0.076
	.	.
MAJOR IONS (mg/L)	.	.
	.	.
Alkalinity-HCO ₃	245	.
Alkalinity-CO ₃	<1	.
Calcium	73	77
Chloride	33	.
Fluoride	0.1	.
Magnesium	20	21
Manganese	0.094	0.068
Nitrate-N	2.7	.
Potassium	1.4	1.5
Sodium	15	15
Sulfate	20	.

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-613		GW-626		GW-627		GW-629	
	S3		BG		BG		BG	
	10/01/91		09/26/91		12/18/91		06/22/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
Aluminum	1.2	<0.02	0.031	<0.02	<0.02	<0.02	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.062	0.057	0.13	0.13	0.042	0.041	0.029	0.027
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.15	0.021	0.009	0.0078	0.51	0.5	0.48	0.44
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron	0.56	0.0055	0.013	0.02	0.16	0.055	0.27	0.056
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	.	.	.	.	.	.	3.4	2.9
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.052	0.05	0.1	0.1	0.071	0.07	0.049	0.046
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	0.001	<0.001	<0.001	0.001	0.003	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.014	0.0051	0.0057	0.023	0.01	0.0063	0.0036	0.0044
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
Alkalinity-HCO3	90	.	96	.	461	.	371	.
Alkalinity-CO3	<1	.	<1	.	72	.	72	.
Calcium	31	30	34	34	0.87	0.87	0.71	0.67
Chloride	1	.	3.1	.	19	.	<10	.
Fluoride	<0.1	.	<0.1	.	9	.	3.3	.
Magnesium	3.1	2.8	2.5	2.5	0.19	0.19	0.14	0.14
Manganese	0.01	0.0012	0.0014	0.0015	0.0069	0.0058	0.0094	0.007
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<2	.
Potassium	<0.6	0.62	1.7	1.8	0.78	1.4	0.73	1.3
Sodium	3.9	3.8	3.6	3.7	290	290	230	230
Sulfate	5	.	2.6	.	32	.	24	.

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No. . Location . Date Sampled	GW-630				GW-636			
	OLF				OLF			
	03/26/91		06/25/91		08/21/91		10/18/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
METALS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Aluminum	0.022	0.033	0.074	0.048	<0.02	<0.02	<0.02	<0.02
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.36	0.38	0.42	0.43	0.23	0.23	0.22	0.22
Beryllium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Boron	0.014	0.011	0.02	0.019	0.39	0.39	0.44	0.35
Cadmium (AAS)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Chromium (AAS)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.01	<0.01	<0.01	0.016	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	<0.004	<0.004	0.0057	0.0059	<0.004	<0.004	<0.004	<0.004
Iron	0.1	0.017	0.22	0.13	0.22	0.066	0.37	0.068
Lead (AAS)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mercury (CVAA)	<0.0002	<0.0002	0.00086	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	<0.01	<0.01	<0.01	0.096	<0.01	<0.01	<0.01	<0.01
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silicon	8.6	8.4	8.5	8.8	.	.	.	.
Silver	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Strontium	0.1	0.11	0.12	0.13	0.6	0.59	0.56	0.56
Thorium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium (Fluor)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.0075	0.0075	0.043	0.0092	0.0034	0.0037	0.0065	0.006
	.	.	.	.	.	.	.	.
MAJOR IONS (mg/L)	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
Alkalinity-HCO3	181	.	177	.	164	.	170	.
Alkalinity-CO3	<1	.	<1	.	<1	.	2	.
Calcium	55	58	63	55	8.1	8	7.7	7.7
Chloride	1.6	.	2	.	6	.	7	.
Fluoride	<0.1	.	0.1	.	0.2	.	0.1	.
Magnesium	5.5	5.8	5.8	5.8	2.8	2.9	2.4	2.4
Manganese	0.098	0.052	0.15	0.13	0.0099	0.0086	0.011	0.0087
Nitrate-N	<0.2	.	<0.2	.	<0.2	.	<0.2	.
Potassium	0.85	0.93	1	0.84	5.6	4.7	5	5
Sodium	4.2	4.5	4.8	4.1	71	65	65	66
Sulfate	9.3	.	8	.	5	.	6	.

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-064	GW-071	GW-075	GW-085	GW-095		GW-115	
Location	OLF	BG	OLF	OLF	BG		S3	
Date Sampled	08/14/91	03/24/91	01/28/91	05/09/91	03/19/91	06/18/91	01/05/91	04/03/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	30	N	.	N	N	N	N
Benzene	G	130	G	G	G	G	G	G
Bromodichloromethane	G	N	G	G	G	G	G	G
Bromoform	G	N	G	G	G	G	G	G
Bromomethane	N	V	N	N	N	N	N	N
2-Butanone	N	V	N	N	N	N	N	N
Carbon disulfide	G	N	G	G	G	G	G	G
Carbon tetrachloride	3	N	G	G	G	G	G	G
Chlorobenzene	G	N	G	G	G	G	G	G
Chlorodibromomethane	G	N	G	G	G	G	G	G
Chloroethane	N	V	N	N	N	N	N	N
Chloroform	3	2	G	G	G	G	G	0.8
Chloromethane	N	V	N	N	N	N	N	N
1,1-Dichloroethane	G	420	G	G	G	G	G	G
1,2-Dichloroethane	G	N	G	G	G	G	G	G
1,1-Dichloroethene	G	13	G	G	G	G	G	G
1,2-Dichloroethene	9	40	G	G	G	G	G	G
1,2-Dichloropropane	G	N	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	N	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	N	G	G	G	G	G	G
Ethylbenzene	G	N	G	G	G	G	G	G
2-Hexanone	N	V	N	N	N	N	N	N
4-Methyl-2-pentanone	N	V	N	N	N	N	N	N
Methylene chloride	G	N	G	G	G	16	G	G
Styrene	G	N	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	N	G	G	G	G	G	G
Tetrachloroethene	G	410	G	G	G	G	G	G
Toluene	G	N	0.5	G	G	G	G	G
1,1,1-Trichloroethane	1	110	G	G	G	G	G	G
1,1,2-Trichloroethane	G	N	G	G	G	G	G	G
Trichloroethene	100	410	0.9	G	G	G	G	G
Vinyl acetate	N	V	N	N	N	N	N	N
Vinyl chloride	N	V	N	N	N	N	N	N
Xylenes	G	N	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-162	GW-164	GW-227	GW-307	GW-309	GW-314		
Location	BG	BG	OLF	RS	RS	SPI		
Date Sampled	06/11/91	03/05/91	08/31/91	01/14/91	04/25/91	01/08/91	04/08/91	07/20/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	4	G	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	4	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G	G	G	G
1,2-Dichloroethene	G	G	G	G	8	150	16	4
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	G	G	16
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	G	G	G	1	25	23	8
Toluene	G	G	G	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	2	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	G	6	35	12	9	9	3
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-315	GW-344		GW-365	GW-366	GW-537	GW-601	GW-613
Location	SPI	BG		OLF	OLF	OLF	OLF	S3
Date Sampled	10/05/91	09/08/91	11/07/91	05/14/91	02/01/91	10/23/91	10/31/91	07/01/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	42	N	N	N	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	5	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	G	G	G	G	0.8	0.8	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	G	G	4	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G	G	G	G
1,1-Dichloroethene	G	G	G	12	G	G	G	G
1,2-Dichloroethene	12	G	G	46	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N	N	N	N
Methylene chloride	G	G	G	G	G	1	1	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	18	G	G	1	G	G	G	G
Toluene	1	G	1	G	G	G	G	G
1,1,1-Trichloroethane	G	G	G	5	G	G	0.9	0.8
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	7	G	G	27	G	G	170	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-613	GW-626	GW-627	GW-629	GW-630		GW-636	
Location	S3	BG	BG	BG	OLF		OLF	
Date Sampled	10/01/91	09/26/91	12/18/91	06/22/91	03/26/91	06/25/91	08/21/91	10/18/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.	.	.	.
Acetone	N	N	N	N	7	N	N	N
Benzene	G	G	G	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G	G	G	G
Bromoform	G	G	G	G	G	G	G	G
Bromomethane	N	N	N	N	N	N	N	N
2-Butanone	N	N	N	N	N	N	N	N
Carbon disulfide	G	G	G	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G	G	G	G
Chlorobenzene	G	G	G	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G	G	G	G
Chloroethane	N	N	N	N	N	N	N	N
Chloroform	G	0.9	G	G	0.8	G	G	G
Chloromethane	N	N	N	N	N	N	N	N
1,1-Dichloroethane	G	11	1	8	G	G	G	G
1,2-Dichloroethane	G	2	G	G	G	G	G	G
1,1-Dichloroethene	G	6	G	1	G	G	G	G
1,2-Dichloroethene	G	110	G	G	G	G	G	G
1,2-Dichloropropane	G	G	G	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G	G	G	G
Ethylbenzene	G	G	G	G	G	G	G	G
2-Hexanone	N	N	N	N	N	N	N	N
4-Methyl-2-pentanone	3	3	N	N	N	N	N	N
Methylene chloride	G	0.7	G	G	G	17	G	G
Styrene	G	G	G	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G	G	G	G
Tetrachloroethene	G	12	15	110	G	G	G	G
Toluene	1	1	G	G	G	G	G	G
1,1,1-Trichloroethane	G	4	G	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G	G	G	G
Trichloroethene	G	18	2	12	G	G	G	G
Vinyl acetate	N	N	N	N	N	N	N	N
Vinyl chloride	N	N	N	N	N	N	N	N
Xylenes	G	G	G	G	G	G	G	G

(CONTINUED)

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-639	GW-640	GW-683	GW-685	
Location	BG	BG	RXP	RXP	
Date Sampled	09/09/91	11/15/91	09/19/91	06/01/91	12/12/91
VOLATILE ORGANICS (ug/L)	.	.	.	.	.
Acetone	N	N	N	N	N
Benzene	G	G	G	G	G
Bromodichloromethane	G	G	G	G	G
Bromoform	G	G	G	G	G
Bromomethane	N	N	N	N	N
2-Butanone	N	N	N	N	N
Carbon disulfide	G	G	G	G	G
Carbon tetrachloride	G	G	G	G	G
Chlorobenzene	G	G	G	G	G
Chlorodibromomethane	G	G	G	G	G
Chloroethane	N	N	N	N	N
Chloroform	G	G	G	G	G
Chloromethane	N	N	N	N	N
1,1-Dichloroethane	G	G	G	G	G
1,2-Dichloroethane	G	G	G	G	G
1,1-Dichloroethene	G	G	G	G	G
1,2-Dichloroethene	G	G	G	3	3
1,2-Dichloropropane	G	G	G	G	G
cis-1,3-Dichloropropene	G	G	G	G	G
trans-1,3-Dichloropropene	G	G	G	G	G
Ethylbenzene	G	G	G	G	G
2-Hexanone	N	N	N	N	N
4-Methyl-2-pentanone	N	N	N	N	N
Methylene chloride	G	G	G	G	G
Styrene	G	G	G	G	G
1,1,2,2-Tetrachloroethane	G	G	G	G	G
Tetrachloroethene	G	G	G	0.4	G
Toluene	0.7	G	0.3	G	G
1,1,1-Trichloroethane	G	G	G	G	G
1,1,2-Trichloroethane	G	G	G	G	G
Trichloroethene	G	G	G	0.5	0.5
Vinyl acetate	N	N	N	N	N
Vinyl chloride	N	N	N	N	N
Xylenes	G	G	G	G	G

APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-064	GW-071	GW-075	GW-085	GW-095		GW-115	
Location	OLF	BG	OLF	OLF	BG		S3	
Date Sampled	08/14/91	03/24/91	01/28/91	05/09/91	03/19/91	06/18/91	01/05/91	04/03/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	3	1.9	1.5	7.2	0.9	0.7	1.9	1.5
pH, Field (pH units)	7.1	10.3	9.2	7.6	8.8	8.9	7.3	7.5
Redox, Field (mV)	205	-367	84	314	210	53	235	-65
Sp. Cond., Field (umho/cm)	574	1491	793	1060	431	492	425	455
Temp, Field (degrees C)	15.1	15.9	15.1	16.2	14.1	16.2	16	16.5
pH, 1 (pH unit)	7.8	10.4	9.1	5.8	8.6	9	6.9	7.4
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	717	1485	891	1219	490	547	357	408
TDS (mg/L)	360	882	606	944	292	306	252	246
TSS (mg/L)	2	14	7	2	<1	<1	<1	<1
Turbidity (NTU)	3	1.3	2.8	0.29	0.22	0.15	3.2	4.2
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	2.62	2.79	0.93	3.30	1.24	1.27	0.83	1.63
Gross Alpha (CE+/-)	1.50	1.30	1.40	1.60	1.00	1.40	1.10	1.10
Gross Beta (pCi/L)	21.19	3.79	1.59	67.64	2.68	0.53	2.81	4.52
Gross Beta (CE+/-)	4.20	3.20	3.30	6.10	3.10	3.40	3.40	3.20
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	-1840.00	-3260.00
Technetium 99 (CE+/-)	.	.	.	.	.	.	1500.00	1500.00
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	0.41	-0.42
Uranium 234 (CE+/-)	.	.	.	.	.	.	0.80	0.80
Uranium 235 (pCi/L)	.	.	.	.	.	.	0.00	0.00
Uranium 235 (CE+/-)	.	.	.	.	.	.	1.40	1.50
Uranium 238 (pCi/L)	.	.	.	.	.	.	0.00	0.00
Uranium 238 (CE+/-)	.	.	.	.	.	.	1.40	1.50

(CONTINUED)

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APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-162	GW-164	GW-227	GW-307	GW-309	GW-314		
Location	BG	BG	OLF	RS	RS	SPI		
Date Sampled	06/11/91	03/05/91	08/31/91	01/14/91	04/25/91	01/08/91	04/08/91	07/20/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	6.3	1.5	1.6	1	0.7	4.2	4	2.8
pH, Field (pH units)	7.3	8	6.7	6.5	6.6	6.8	7.2	6.9
Redox, Field (mV)	253	217	58	306	260	334	270	228
Sp. Cond., Field (umho/cm)	271	307	733	718	1007	423	491	551
Temp, Field (degrees C)	15.9	15.5	15.4	14.1	16.3	13.4	15.8	16.6
pH, 1 (pH units)	5.4	7.6	7	6.7	6.9	6.9	7.2	7.5
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	234	356	821	881	1075	468	351	696
TDS (mg/L)	140	230	486	542	580	300	296	404
TSS (mg/L)	2	<1	1	11	<1	<1	<1	<1
Turbidity (NTU)	3.6	2.5	1.8	9	0.25	1.4	0.35	0.5
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	-0.57	3.48	9.57	1.36	2.25	1.71	1.36	3.66
Gross Alpha (CE+/-)	1.00	1.50	2.40	1.50	1.70	1.30	1.00	1.70
Gross Beta (pCi/L)	-0.66	4.63	51.30	28.20	52.96	14.42	5.36	74.30
Gross Beta (CE+/-)	3.30	3.30	5.40	4.80	5.40	4.00	3.20	6.40
Americium 241 (pCi/L)	.	.	-0.01	.	.	.	.	.
Americium 241 (CE+/-)	.	.	0.03	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	17.10	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	29.60	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	0.01	0.01	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	0.75	0.76	.	.	.
Neptunium 237 (pCi/L)	.	.	5.82	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	3.10	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	1.42	.	-27.90	.	.	.
Strontium (CE+/-)	.	.	3.80	.	31.00	.	.	.
Technetium 99 (pCi/L)	.	.	907.00	.	-1300.00	.	.	.
Technetium 99 (CE+/-)	.	.	1600.00	.	1600.00	.	.	.
Tritium (Bq/L)	.	.	-14.00	26.00	22.00	.	.	.
Tritium (CE+/-)	.	.	35.00	34.00	46.00	.	.	.
Uranium 234 (pCi/L)	-0.43	0.42	.	.	.	.	.	.
Uranium 234 (CE+/-)	0.90	1.40	.	.	.	.	.	.
Uranium 235 (pCi/L)	-0.43	0.00	.	.	.	.	.	.
Uranium 235 (CE+/-)	0.90	1.40	.	.	.	.	.	.
Uranium 238 (pCi/L)	0.00	0.00	.	.	.	.	.	.
Uranium 238 (CE+/-)	1.70	1.40	.	.	.	.	.	.

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APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-315	GW-344		GW-365	GW-366	GW-537	GW-601	GW-613
Location	SPI	BG		OLF	OLF	OLF	OLF	S3
Date Sampled	10/05/91	09/08/91	11/07/91	05/14/91	02/01/91	10/23/91	10/31/91	07/01/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	2.5	0.7	0.8	0.2	7.1	1.3	1.8	2.9
pH, Field (pH units)	6.9	8	7.9	7.2	7.2	6.7	7.3	6.5
Redox, Field (mV)	206	-123	-63	-47	306	224	81	90
Sp. Cond., Field (umho/cm)	683	280	299	945	452	4600	656	198
Temp, Field (degrees C)	16.2	16.8	12.7	14.3	12.7	16.8	13.7	15.5
pH, 1 (pH units)	7.1	7.8	8	6.5	6.9	6.9	8.1	7.3
Phenols (mg/L)	.	.	.	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	793	306	306	849	482	4880	848	238
TDS (mg/L)	522	178	184	552	358	4364	466	158
TSS (mg/L)	8	<1	3	3	35	4	.	18
Turbidity (NTU)	0.13	1.5	4.6	11	60	1.5	8.4	5
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	4.04	1.55	0.61	3.11	2.58	7.65	4.20	1.38
Gross Alpha (CE+/-)	1.80	1.30	1.70	1.60	1.50	6.50	2.10	1.30
Gross Beta (pCi/L)	163.00	10.23	3.06	6.21	6.23	76.30	14.50	-1.96
Gross Beta (CE+/-)	8.30	3.80	3.00	3.60	3.70	14.00	3.30	2.90
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	228.00	-513.00	.	.	.
Technetium 99 (CE+/-)	.	.	.	1600.00	1600.00	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-613	GW-626	GW-627	GW-629	GW-630		GW-636	
Location	S3	BG	BG	BG	OLF		OLF	
Date Sampled	10/01/91	09/26/91	12/18/91	06/22/91	03/26/91	06/25/91	08/21/91	10/18/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.	.	.	.
DO, Field (ppm)	4	4.3	0.3	0.7	1.8	0.9	0.3	0.6
pH, Field (pH units)	6.6	8.4	9	9	7.6	7.2	8.1	8.4
Redox, Field (mV)	170	150	-68	-23	236	96	153	-110
Sp. Cond., Field (umho/cm)	159	178	1102	820	310	330	319	326
Temp, Field (degrees C)	14.5	16	13.7	16.3	15.9	15.9	14.8	14
pH, 1 (pH units)	7.2	8	9.04	9.4	6.9	8.3	8.6	7.9
Phenols (mg/L)	.	.	.	<0.05	.	.	.	.
Sp. Cond., 1 (umho/cm)	195	216	1104	1016	326	393	384	381
TDS (mg/L)	134	146	744	568	214	186	208	226
TSS (mg/L)	28	<1	<1	2	8	<1	<1	<1
Turbidity (NTU)	10	0.15	0.7	0.5	3.6	1.6	0.6	1.3
RADIOCHEMICAL PARAMETERS	.	.	.	.	.	.	.	.
Gross Alpha (pCi/L)	1.15	1.30	-27.80	0.73	-1.81	-0.31	0.24	1.28
Gross Alpha (CE+/-)	1.30	1.20	38.00	1.40	1.10	1.00	1.40	2.00
Gross Beta (pCi/L)	2.93	-2.20	-14.80	-0.39	-1.08	0.78	3.41	2.91
Gross Beta (CE+/-)	3.00	3.30	34.00	3.30	3.30	3.00	3.40	2.90
Americium 241 (pCi/L)	.	.	.	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.	.	.	.

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APPENDIX F
Field Duplicate Groundwater Quality Data, 1991

Well No.	GW-639	GW-640	GW-683	GW-685	
Location	BG	BG	EXP	EXP	
Date Sampled	09/09/91	11/15/91	09/19/91	06/01/91	12/12/91
MISCELLANEOUS PARAMETERS	.	.	.	.	.
DO, Field (ppm)	0.9	4	2.6	8.3	8
pH, Field (pH units)	9.3	6.3	7.1	7.3	7.8
Redox, Field (mV)	-24	211	122	138	33
Sp. Cond., Field (umho/cm)	770	107	579	592	616
Temp, Field (degrees C)	16.1	14.4	13.8	18.6	14.2
pH, 1 (pH units)	9.1	6.2	7.8	8.3	7.55
Phenols (mg/L)	.	.	.	.	.
Sp. Cond., 1 (umho/cm)	917	107	678	429	634
TDS (mg/L)	556	76	400	354	352
TSS (mg/L)	12	5	<1	22	3
Turbidity (NTU)	25	2.3	0.25	50	5.8
RADIOCHEMICAL PARAMETERS	.	.	.	.	.
Gross Alpha (pCi/L)	1.55	0.43	29.70	0.99	3.63
Gross Alpha (CE+/-)	1.30	1.60	3.70	1.33	2.30
Gross Beta (pCi/L)	1.04	0.74	70.00	5.35	8.91
Gross Beta (CE+/-)	3.30	2.90	5.90	3.50	3.10
Americium 241 (pCi/L)	.	.	.	.	.
Americium 241 (CE+/-)	.	.	.	.	.
Cesium 137 (pCi/L)	.	.	.	.	.
Cesium 137 (CE+/-)	.	.	.	.	.
Iodine 125 + 129 (Bq/L)	.	.	.	.	.
Iodine 125 + 129 (CE+/-)	.	.	.	.	.
Neptunium 237 (pCi/L)	.	.	.	.	.
Neptunium 237 (CE+/-)	.	.	.	.	.
Plutonium 238 (pCi/L)	.	.	.	.	.
Plutonium 238 (CE+/-)	.	.	.	.	.
Plutonium 239 (pCi/L)	.	.	.	.	.
Plutonium 239 (CE+/-)	.	.	.	.	.
Strontium (pCi/L)	.	.	.	.	.
Strontium (CE+/-)	.	.	.	.	.
Technetium 99 (pCi/L)	.	.	.	.	.
Technetium 99 (CE+/-)	.	.	.	.	.
Tritium (Bq/L)	.	.	.	.	.
Tritium (CE+/-)	.	.	.	.	.
Uranium 234 (pCi/L)	.	.	.	.	.
Uranium 234 (CE+/-)	.	.	.	.	.
Uranium 235 (pCi/L)	.	.	.	.	.
Uranium 235 (CE+/-)	.	.	.	.	.
Uranium 238 (pCi/L)	.	.	.	.	.
Uranium 238 (CE+/-)	.	.	.	.	.

APPENDIX G
ION-CHARGE BALANCE CALCULATIONS

EXPLANATION

LOCATION:

BG - Bear Creek Burial Grounds WMA
EXP - Exit-Pathway Monitoring Well
OLF - Oil Landfarm WMA
S3 - S-3 Site
SPI - Spoil Area I
RS - Rust Spoil Area

NOTES:

mg/L - milligrams per Liter
meq/L - milliequivalents per Liter
TDS - Total Dissolved Solids
TSS - Total Suspended Solids

Bicarbonate and carbonate alkalinities (reported as CaCO_3) were converted to HCO_3 and CO_3 as described in Mercier and Turner (1990).

Charge balances were calculated using the following formula:

$$\text{ion-charge balance (\%)} = \left(\frac{\sum \text{cations} - \sum \text{anions}}{\sum \text{cations} + \sum \text{anions}} \right) \times 100$$

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Well No.	GW-005	GW-013	GW-018	GW-037	GW-042	GW-043	GW-044	GW-052	GW-053	GW-054	GW-056	GW-057	GW-058
Location	OLF	OLF	BG	BG	BG	OLF	OLF	BG	BG	BG	BG	BG	BG
Date Sampled	01/26/91	01/28/91	03/21/91	03/09/91	03/05/91	01/22/91	01/22/91	03/20/91	03/19/91	02/27/91	02/26/91	02/26/91	03/19/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	4.24	5.49	0.41	2.10	0.15	0.80	2.20	3.19	5.49	3.84	3.09	4.14	3.64
Magnesium	1.32	1.07	0.05	1.15	0.27	0.25	0.26	0.77	1.15	0.99	1.73	1.40	2.22
Potassium	0.19	0.04	0.03	0.05	0.02	0.02	0.02	0.04	0.06	0.04	0.10	0.02	0.03
Sodium	0.31	0.20	0.05	0.48	0.10	0.27	0.19	0.43	0.40	0.08	1.00	2.26	0.38
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	6.06	6.80	0.54	3.77	0.55	1.34	2.67	4.43	7.11	4.95	5.92	7.83	6.28
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	5.22	1.44	0.38	3.32	0.50	0.52	2.78	2.38	3.60	5.22	5.06	5.54	5.28
Chloride	0.11	0.17	0.06	0.03	0.03	0.03	0.03	0.34	1.89	0.14	0.99	1.38	0.37
Fluoride	0.08	0.00	0.00	0.02	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.04	0.00	0.36
Sulfate	0.75	0.08	0.04	0.69	0.15	0.17	0.12	0.50	0.67	0.31	0.52	0.58	0.48
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	6.16	1.69	0.48	4.05	0.68	0.71	2.93	4.09	6.15	5.67	6.61	7.50	6.48
CHARGE BALANCE (%)	-1	60	6	-4	-11	30	-5	4	7	-7	-5	2	-2
TDS (mg/L)	322	368	48	258	54	122	184	266	408	390	390	446	208
TSS (mg/L)	172	2	1	2	-1	22	-1	72	4	49	14	-1	9

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Well No.	GW-061	GW-063	GW-064	GW-069	GW-071	GW-072	GW-074	GW-075	GW-076	GW-077	GW-078	GW-079	GW-080
Location	BG	OLF	OLF	BG	BG	BG	OLF	OLF	OLF	BG	BG	BG	BG
Date Sampled	03/19/91	02/08/91	02/20/91	03/19/91	03/24/91	03/19/91	01/30/91	01/28/91	01/26/91	02/27/91	02/27/91	02/23/91	02/23/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	3.34	3.84	5.49	0.41	0.03	0.08	0.04	0.05	0.95	2.15	2.05	1.55	0.17
Magnesium	0.74	1.89	1.32	0.39	0.01	0.03	0.01	0.03	0.77	0.67	0.45	0.29	0.29
Potassium	0.03	0.04	0.05	0.11	0.09	0.06	0.02	0.05	0.10	0.05	0.03	0.03	0.03
Sodium	0.17	0.22	0.24	2.65	15.23	5.22	5.22	9.57	1.70	0.26	0.18	0.18	0.26
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	4.29	6.00	7.09	3.58	15.36	5.39	5.29	9.70	3.51	3.13	2.71	2.05	0.75
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.20	10.07	3.52	1.44	1.40	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	3.40	5.24	5.80	2.46	3.26	0.62	3.88	8.31	3.28	2.96	2.70	2.04	0.40
Chloride	0.23	0.28	0.42	1.04	1.24	0.51	0.00	0.14	0.37	0.00	0.03	0.00	0.00
Fluoride	0.00	0.00	0.00	0.00	0.20	0.02	0.02	0.27	0.02	0.00	0.01	0.01	0.01
Nitrate Nitrogen	0.50	0.29	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.46	0.27	0.46	0.04	0.62	0.25	0.17	0.48	0.12	0.33	0.27	0.15	0.27
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.25	0.06	0.03	0.01	0.00	0.00	0.00	0.00	0.00
Total Anions	4.58	6.07	7.32	3.74	15.65	4.97	5.53	10.62	3.78	3.29	3.00	2.19	0.68
CHARGE BALANCE (%)	-3	-1	-2	-2	-1	4	-2	-5	-4	-3	-5	-3	5
TDS (mg/L)	232	358	402	216	896	288	318	612	174	202	188	130	142
TSS (mg/L)	3	75	15	-1	19	2	-1	8	1	-1	1	6	1550

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Well No.	GW-082	GW-083	GW-084	GW-085	GW-086	GW-089	GW-095	GW-101	GW-115	GW-117	GW-118	GW-119	GW-122
Location	BG	BG	OLF	OLF	OLF	BG	BG	S3	S3	BG	BG	BG	S3
Date Sampled	03/09/91	03/09/91	01/22/91	01/26/91	01/26/91	03/05/91	03/19/91	01/12/91	01/05/91	03/25/91	03/25/91	03/25/91	01/17/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	3.34	1.85	2.64	8.98	1.70	2.25	0.07	224.55	3.29	0.13	0.48	0.26	40.92
Magnesium	0.55	0.28	0.31	0.99	0.21	0.77	0.04	40.31	0.70	0.09	0.53	0.34	13.16
Potassium	0.03	0.02	0.02	0.05	0.03	0.06	0.05	0.49	0.03	0.22	0.41	0.31	0.54
Sodium	0.21	0.15	0.24	0.40	0.21	0.30	5.65	6.09	0.35	32.19	78.30	60.90	4.00
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	4.14	2.30	3.22	10.42	2.14	3.37	5.81	271.43	4.38	32.63	79.72	61.80	58.62
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	1.56	0.96	1.64	0.00
Alkalinity-HCO3	3.46	2.26	3.02	2.44	2.56	3.10	4.58	3.16	4.06	12.61	4.16	6.75	6.57
Chloride	0.14	0.06	0.00	0.14	0.03	0.08	0.03	0.99	0.08	19.32	99.30	50.78	4.03
Fluoride	0.01	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.14	0.06	0.10	0.00
Nitrate Nitrogen	0.00	0.00	0.00	11.21	0.07	0.00	0.00	179.22	0.00	0.00	0.00	0.00	47.63
Sulfate	0.21	0.15	0.17	0.12	0.17	0.19	0.23	1.31	0.29	0.56	0.02	0.37	0.35
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00
Total Anions	3.81	2.46	3.18	13.91	2.82	3.38	5.58	184.68	4.43	34.20	104.50	59.65	58.59
CHARGE BALANCE (%)	4	-3	1	-14	-14	-0	2	19	-1	-2	-13	2	0
TDS (mg/L)	260	162	234	870	165	192	292	10722	262	1940	5216	3514	4392
TSS (mg/L)	22	-1	65	4	2092	-1	-1	226	-1	25	15	18	4

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Well No.	GW-123	GW-125	GW-162	GW-163	GW-164	GW-209	GW-210	GW-211	GW-225	GW-226	GW-227	GW-243	GW-290
Location	S3	S3	BG	BG	BG	EXP	EXP	EXP	OLF	OLF	OLF	S3	BG
Date Sampled	03/25/91	03/25/91	02/28/91	03/02/91	03/05/91	02/23/91	02/23/91	02/26/91	02/21/91	02/08/91	02/08/91	01/22/91	03/21/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	0.05	0.05	1.50	0.09	1.50	0.60	1.20	12.97	6.99	8.48	5.99	304.39	3.34
Magnesium	0.02	0.03	0.42	0.01	1.23	0.11	1.89	4.03	4.11	2.39	1.65	51.82	0.80
Potassium	0.46	0.79	0.08	0.04	0.04	0.09	0.10	0.10	0.06	0.14	0.04	3.58	0.06
Sodium	19.14	19.57	0.61	3.18	0.87	0.11	0.32	0.70	0.70	1.48	0.48	35.24	0.38
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
Total Cations	19.67	20.45	2.61	3.31	3.64	0.91	3.50	17.80	11.86	12.48	8.16	395.23	4.58
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	6.31	9.15	0.08	0.28	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	10.57	7.61	2.50	2.90	3.64	0.32	2.94	2.32	4.26	5.68	9.79	0.00	4.64
Chloride	0.73	4.37	0.11	0.00	0.03	0.00	0.00	0.03	1.13	1.95	0.51	12.47	0.11
Fluoride	0.35	0.15	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.01
Nitrate Nitrogen	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	6.28	0.05	1.29	677.63	0.00
Sulfate	1.87	1.58	0.19	0.31	0.23	0.04	0.79	25.41	0.75	0.85	0.85	13.85	0.33
Hydroxyl Ion	0.04	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	19.88	23.24	2.88	3.49	3.89	0.36	3.81	27.77	12.43	8.53	12.45	703.98	5.09
CHARGE BALANCE (%)	-1	-6	-5	-3	-3	43	-4	-22	-2	19	-21	-28	-5
TDS (mg/L)	1148	1310	168	240	216	46	158	1308	822	726	464	33058	284
TSS (mg/L)	20	18	4	24	-1	574	7	6	-1	66	1	53	4

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Well No.	GW-291	GW-J06	GW-307	GW-308	GW-309	GW-310	GW-311	GW-312	GW-313	GW-314	GW-315	GW-316	GW-317
Location	BG	RS	RS	RS	RS	RS	RS	RS	SPI	SPI	SPI	SPI	SPI
Date Sampled	03/24/91	01/14/91	01/14/91	01/14/91	01/13/91	01/15/91	01/13/91	01/14/91	01/09/91	01/08/91	01/08/91	01/08/91	01/06/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	2.89	6.49	8.48	8.98	9.48	5.99	3.99	7.49	4.14	3.84	3.74	1.90	2.15
Magnesium	0.82	1.32	1.32	1.23	1.73	0.90	0.39	0.00	1.48	1.15	1.07	1.56	1.73
Potassium	0.03	0.06	0.10	0.09	0.11	0.08	0.04	0.46	0.03	0.04	0.04	0.05	0.02
Sodium	0.31	0.27	0.38	0.43	0.52	0.40	0.07	0.34	0.05	0.07	0.07	0.08	0.14
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	4.06	8.14	10.28	10.73	11.84	7.37	4.50	8.29	5.71	5.11	4.92	3.59	4.04
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	3.42	5.92	6.37	6.93	8.67	4.64	3.86	0.00	5.66	5.04	4.76	3.80	4.08
Chloride	0.17	0.48	0.85	0.65	0.79	0.65	0.08	0.03	0.06	0.06	0.06	0.06	0.03
Fluoride	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Nitrate Nitrogen	0.04	0.79	0.86	0.79	1.00	1.00	0.05	0.04	0.11	0.22	0.21	0.04	0.02
Sulfate	0.35	0.85	2.04	2.06	1.52	1.75	0.08	0.08	0.04	0.06	0.06	0.04	0.15
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.62	0.00	0.00	0.00	0.00	0.00
Total Anions	3.98	8.03	10.12	10.43	11.98	8.04	4.07	32.82	5.86	5.38	5.09	3.94	4.27
CHARGE BALANCE (%)	1	1	1	1	-1	-4	5	-60	-1	-3	-2	-5	-3
TDS (mg/L)	222	426	536	630	630	438	216	438	306	272	260	192	224
TSS (mg/L)	5	4	14	127	1	3	1	19	-1	-1	-1	5	-1

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Well No.	GW-323	GW-324	GW-325	GW-342	GW-343	GW-344	GW-345	GW-364	GW-365	GW-366	GW-367	GW-369	GW-370
Location	SPI	S3	S3	BG	BG	BG	S3	OLF	OLF	OLF	OLF	OLF	BG
Date Sampled	01/06/91	01/05/91	01/05/91	03/06/91	03/07/91	03/09/91	01/16/91	02/07/91	02/09/91	02/01/91	02/02/91	02/10/91	02/28/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	1.90	1.40	0.16	0.21	1.55	1.50	1.45	3.79	6.49	3.14	1.90	2.10	1.55
Magnesium	1.97	0.43	0.08	0.45	0.90	0.82	0.53	1.48	2.06	2.63	1.48	2.63	0.27
Potassium	0.03	0.02	0.00	0.05	0.08	0.07	0.17	0.08	0.08	0.04	0.03	0.12	0.02
Sodium	0.05	0.22	0.06	0.22	0.32	0.65	0.48	0.48	0.57	0.07	0.12	0.31	0.52
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	3.95	2.07	0.31	0.93	2.86	3.04	2.62	5.83	9.19	5.88	3.53	5.16	2.36
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	4.24	2.00	0.18	0.70	2.84	2.84	0.92	4.56	4.36	5.52	3.26	2.90	1.80
Chloride	0.03	0.03	0.06	0.00	0.06	0.00	0.28	0.90	1.75	0.06	0.08	0.51	0.03
Fluoride	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.00	0.00	9.93	0.04	0.00	0.00	0.21	0.57	0.00
Sulfate	0.04	0.12	0.06	0.19	0.08	0.29	0.35	0.67	1.10	0.08	0.15	0.90	0.33
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	4.31	2.15	0.30	0.96	2.98	3.13	11.48	6.16	7.21	5.67	3.71	4.88	2.16
CHARGE BALANCE (%)	-4	-2	1	2	-2	-1	-63	-3	12	2	-2	3	4
TDS (mg/L)	222	118	42	86	170	196	424	658	510	314	208	284	268
TSS (mg/L)	-1	-1	13	20	14	6	3	396	2	59	-1	83	240

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Well No.	GW-372	GW-373	GW-520	GW-526	GW-531	GW-532	GW-533	GW-534	GW-535	GW-537	GW-538	GW-601	GW-602
Location	BG	BG	OLF	S3	OLF	OLF	OLF	OLF	OLF	OLF	OLF	OLF	OLF
Date Sampled	02/22/91	02/22/91	03/25/91	01/16/91	03/26/91	03/26/91	03/26/91	03/26/91	03/26/91	03/26/91	03/28/91	01/25/91	01/25/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	3.04	0.06	2.10	4.24	0.22	2.64	0.95	3.09	3.99	54.89	2.89	3.79	3.94
Magnesium	0.90	0.01	0.01	2.71	0.12	0.32	0.16	0.78	0.64	5.43	0.41	3.21	3.13
Potassium	0.05	0.02	0.24	0.33	0.00	0.02	0.00	0.06	0.02	0.07	0.02	0.06	0.38
Sodium	0.42	4.78	0.65	52.20	0.25	0.17	0.23	0.36	0.20	1.13	0.14	0.91	0.13
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	4.41	4.88	2.99	59.49	0.60	3.16	1.34	4.29	4.85	61.52	3.47	7.97	7.58
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	3.34	3.52	0.30	1.14	0.48	3.46	1.22	5.10	4.82	4.46	3.48	3.90	2.48
Chloride	0.06	0.03	1.83	0.37	0.03	0.02	0.03	0.05	0.12	0.65	0.02	1.04	0.08
Fluoride	0.01	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04
Nitrate Nitrogen	0.00	0.00	0.00	99.25	0.00	0.00	0.00	0.00	0.00	235.13	0.00	1.79	0.00
Sulfate	0.75	0.62	0.12	0.00	0.07	0.08	0.19	0.17	0.29	0.00	0.10	0.56	0.50
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	4.15	4.83	1.97	100.76	0.58	3.56	1.43	5.31	5.23	240.28	3.60	7.30	3.10
CHARGE BALANCE (%)	3	1	21	-26	1	-6	-3	-11	-4	-59	-2	4	42
TDS (mg/L)	274	310	192	5384	100	216	104	306	312	4432	208	464	508
TSS (mg/L)	13	3	22	3	934	3	13	6	7	22	34	6	2

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Well No.	GW-613	GW-614	GW-615	GW-616	GW-621	GW-622	GW-623	GW-624	GW-626	GW-627	GW-629	GW-630	GW-636
Location	S3	S3	S3	S3	BG	BG	BG	BG	BG	BG	BG	OLF	OLF
Date Sampled	01/05/91	01/05/91	01/11/91	01/12/91	03/20/91	03/20/91	03/24/91	03/24/91	03/23/91	03/24/91	03/26/91	03/26/91	02/11/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	1.40	2.15	484.03	0.17	2.84	2.20	0.08	2.99	1.45	0.05	0.04	2.69	0.36
Magnesium	0.23	0.74	180.97	0.07	0.75	0.21	0.02	0.58	0.18	0.02	0.01	0.44	0.20
Potassium	0.00	0.03	3.07	0.11	0.05	0.03	0.28	0.10	0.04	0.04	0.03	0.02	0.12
Sodium	0.16	0.39	130.50	20.88	0.24	0.07	16.09	0.13	0.14	11.31	9.57	0.18	2.83
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	1.79	3.31	798.57	21.24	3.88	2.50	16.47	3.81	1.82	11.41	9.65	3.34	3.51
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.28	0.00	0.00	5.32	0.00	0.00	1.60	1.64	0.00	0.08
Alkalinity-HCO3	1.76	3.52	4.48	3.78	3.04	2.98	7.43	3.46	1.88	9.51	7.99	3.64	3.32
Chloride	0.03	0.02	2.00	0.23	0.14	0.17	1.27	0.14	0.08	0.56	0.34	0.04	0.14
Fluoride	0.00	0.00	0.00	0.04	0.00	0.00	0.34	0.01	0.00	0.25	0.15	0.00	0.01
Nitrate Nitrogen	0.00	0.00	778.31	29.78	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.10	0.21	0.00	0.25	0.12	0.08	1.35	0.50	0.08	0.75	0.51	0.19	0.10
Hydroxyl Ion	0.00	0.00	0.00	0.01	0.00	0.00	0.06	0.00	0.00	0.01	0.01	0.00	0.00
Total Anions	1.89	3.75	784.79	34.36	3.73	3.23	15.78	4.11	2.05	12.68	10.65	3.87	3.65
CHARGE BALANCE (%)	-3	-6	1	-24	2	-13	2	-4	-6	-5	-5	-7	-2
TDS (mg/L)	122	212	62086	1722	266	196	918	198	128	702	710	216	200
TSS (mg/L)	-1	-1	21	13	25	-1	40	44	2	-1	-1	5	-1

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Well No.	GW-637	GW-638	GW-639	GW-640	GW-641	GW-642	GW-643	GW-644	GW-645	GW-646	GW-647	GW-648	GW-649
Location	OLF	OLF	BG	BG	BG	BG	BG	OLF	OLF	OLF	OLF	RS	OLF
Date Sampled	02/12/91	02/12/91	03/25/91	03/25/91	03/25/91	03/09/91	02/27/91	01/31/91	02/12/91	01/31/91	02/01/91	01/15/91	01/06/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	3.69	4.64	0.04	0.55	0.12	0.45	0.35	1.05	2.00	6.99	3.24	1.85	1.65
Magnesium	0.47	1.07	0.02	0.10	0.05	0.60	0.20	0.15	2.30	5.68	3.04	1.73	0.26
Potassium	0.04	0.11	0.04	0.02	0.02	0.05	0.05	0.02	0.04	0.38	0.12	0.04	0.00
Sodium	0.12	0.78	8.26	0.16	0.10	0.35	0.33	0.14	0.04	0.70	0.07	0.05	0.15
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	4.32	6.60	8.37	0.83	0.30	1.45	0.93	1.35	4.38	13.74	6.47	3.66	2.05
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	3.96	4.30	6.81	0.78	0.26	1.12	0.36	1.58	4.00	4.04	3.46	3.78	2.04
Chloride	0.08	0.06	0.31	0.00	0.00	0.03	0.00	0.06	0.03	0.06	0.03	0.03	0.06
Fluoride	0.00	0.02	0.08	0.00	0.00	0.02	0.00	0.00	0.02	0.08	0.03	0.02	0.00
Nitrate Nitrogen	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.17	1.54	0.65	0.08	0.04	0.29	0.42	0.00	0.29	9.87	2.58	0.04	0.12
Hydroxyl Ion	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	4.21	5.94	9.90	0.86	0.30	1.45	0.78	1.64	4.34	14.05	6.09	3.87	2.22
CHARGE BALANCE (%)	1	5	-8	-2	-0	-0	9	-9	0	-1	3	-3	-4
TDS (mg/L)	232	400	580	86	68	114	160	106	212	878	362	150	146
TSS (mg/L)	3	117	8	4	6	27	2194	9	5	1	8	40	2

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Well No.	GW-651	GW-652	GW-653	GW-654	GW-655
Location	BG	BG	BG	BG	BG
Date Sampled	03/23/91	03/23/91	03/23/91	03/09/91	03/09/91
CATIONS (meq/L)	.	.	.	.	.
Calcium	3.04	3.39	0.09	0.65	0.22
Magnesium	0.90	0.68	0.07	0.27	0.42
Potassium	0.07	0.07	0.00	0.04	0.05
Sodium	0.08	0.04	0.10	1.74	0.30
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00
Total Cations	4.10	4.18	0.27	2.70	0.99
ANIONS (meq/L)	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	2.78	3.70	0.22	1.88	0.74
Chloride	0.14	0.17	0.00	0.00	0.00
Fluoride	0.00	0.00	0.00	0.01	0.01
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.00
Sulfate	0.21	0.19	0.06	0.27	0.21
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00
Total Anions	3.13	4.05	0.28	2.16	0.96
CHARGE BALANCE (%)	13	2	-2	11	2
TDS (mg/L)	302	296	86	170	84
TSS (mg/L)	3	4	337	15	42

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-005	GW-013	GW-018	GW-037	GW-042	GW-043	GW-044	GW-053	GW-054	GW-056	GW-057	GW-058	GW-061
Location	OLF	OLF	BG	BG	BG	OLF	OLF	BG	BG	BG	BG	BG	BG
Date Sampled	05/09/91	05/02/91	06/20/91	06/14/91	06/11/91	05/01/91	05/01/91	06/19/91	05/31/91	05/24/91	06/19/91	06/20/91	06/19/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	2.94	4.99	0.30	1.75	0.18	0.80	2.20	5.49	4.64	1.25	4.29	3.79	3.69
Magnesium	1.07	1.07	0.07	1.15	0.35	0.23	0.26	1.15	1.07	1.81	1.40	2.55	0.78
Potassium	0.21	0.04	0.03	0.05	0.03	0.00	0.02	0.05	0.04	0.06	0.03	0.03	0.03
Sodium	0.27	0.20	0.07	0.52	0.14	0.30	0.21	0.32	0.09	0.70	1.61	0.20	0.17
Hydrogen Ion	0.00	0.00	0.00	0.00	1.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	4.50	6.30	0.47	3.47	1.71	1.46	2.68	7.01	5.84	3.82	7.33	6.58	4.68
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	4.08	6.39	0.36	3.32	0.48	1.20	2.64	4.98	4.86	5.04	5.66	5.82	3.68
Chloride	0.08	0.17	0.06	0.00	0.03	0.03	0.03	0.62	0.23	1.50	1.52	0.17	0.17
Fluoride	0.10	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.05	0.43
Sulfate	0.25	0.08	0.02	0.67	0.17	0.17	0.12	0.67	0.35	0.62	0.65	0.44	0.42
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	4.51	6.65	0.48	4.00	0.68	1.39	2.79	6.28	5.44	7.19	7.83	6.48	4.70
CHARGE BALANCE (%)	-0	-3	-0	-7	43	2	-2	5	4	-31	-3	1	-0
TDS (mg/L)	278	370	74	258	54	134	184	464	292	378	428	352	290
TSS (mg/L)	28	4	13	2	-1	11	2	8	16	15	8	6	6

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-063	GW-064	GW-069	GW-071	GW-072	GW-074	GW-075	GW-076	GW-077	GW-078	GW-079	GW-080	GW-082
Location	OLF	OLF	BG	BG	BG	OLF	OLF	OLF	BG	BG	BG	BG	BG
Date Sampled	05/12/91	05/17/91	06/17/91	06/21/91	06/18/91	05/10/91	05/10/91	05/09/91	06/05/91	06/05/91	06/04/91	05/24/91	06/11/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	3.44	4.99	0.40	0.03	0.05	0.03	0.05	1.15	1.70	1.75	1.70	0.22	3.24
Magnesium	1.73	1.32	0.58	0.01	0.02	0.01	0.03	0.72	0.60	0.52	0.30	0.35	0.55
Potassium	0.04	0.07	0.11	0.06	0.05	0.02	0.07	0.10	0.05	0.02	0.03	0.04	0.02
Sodium	0.18	0.21	2.39	14.35	4.78	5.22	10.44	1.61	0.25	0.16	0.17	0.26	0.22
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00
Total Cations	5.39	6.59	3.28	14.45	4.91	5.28	10.59	3.57	2.59	2.45	2.20	1.67	4.04
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.28	8.31	2.32	1.48	1.64	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	4.96	5.58	2.32	4.30	1.82	3.82	8.63	3.24	2.64	2.66	2.00	0.50	3.74
Chloride	0.23	0.03	1.04	1.21	0.45	0.00	0.17	0.34	0.00	0.06	0.00	0.00	0.17
Fluoride	0.01	0.00	0.01	0.29	0.01	0.01	0.25	0.01	0.01	0.01	0.00	0.00	0.01
Nitrate Nitrogen	0.29	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.25	0.04	0.04	0.73	0.25	0.16	0.53	0.12	0.31	0.25	0.17	0.33	0.19
Hydroxyl Ion	0.00	0.00	0.00	0.10	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	5.72	5.70	3.70	14.94	4.93	5.47	11.23	3.71	2.96	2.97	2.17	0.83	4.10
CHARGE BALANCE (%)	-3	7	-6	-2	-0	-2	-3	-2	-7	-10	1	33	-1
TDS (mg/L)	322	404	248	882	296	310	638	218	172	172	120	106	236
TSS (mg/L)	91	2	-1	1	2	1	5	2	6	4	4	1818	2

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-083	GW-084	GW-085	GW-086	GW-089	GW-095	GW-101	GW-115	GW-117	GW-118	GW-119	GW-122	GW-123
Location	BG	OLF	OLF	OLF	BG	BG	S3	S3	BG	BG	BG	S3	S3
Date Sampled	06/11/91	05/01/91	05/09/91	05/09/91	06/11/91	06/18/91	04/14/91	04/03/91	06/17/91	06/17/91	06/17/91	04/13/91	04/06/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	1.65	2.45	9.48	1.60	1.70	0.06	.	3.24	0.14	0.28	0.17	37.92	0.05
Magnesium	0.28	0.30	1.07	0.21	0.77	0.03	32.08	0.75	0.09	0.46	0.26	13.16	0.03
Potassium	0.00	0.00	0.04	0.02	0.05	0.05	0.20	0.04	0.20	0.31	0.19	0.61	0.33
Sodium	0.14	0.23	0.42	0.23	0.30	5.22	4.35	0.36	28.71	69.60	47.85	4.35	20.88
Hydrogen Ion	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	2.07	2.98	11.02	2.05	2.82	5.36	.	4.39	29.14	70.65	48.48	56.05	21.30
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	2.16	1.92	2.40	0.00	5.96
Alkalinity-HCO3	2.24	3.08	2.40	2.02	2.96	4.42	6.45	4.34	11.19	3.18	6.19	5.24	11.29
Chloride	0.06	0.00	0.17	0.04	0.08	0.03	0.79	0.09	17.49	89.65	3.75	4.29	0.73
Fluoride	0.01	0.01	0.00	0.00	0.01	0.03	0.00	0.00	0.21	0.09	0.15	0.00	0.36
Nitrate Nitrogen	0.00	0.00	8.21	0.09	0.00	0.00	101.61	0.00	0.00	0.29	0.21	14.99	0.00
Sulfate	0.12	0.17	0.12	0.17	0.21	0.21	1.40	0.40	0.67	0.00	0.44	0.23	1.90
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.04	0.03	0.00	0.04
Total Anions	2.43	3.25	10.90	2.32	3.26	5.46	110.25	4.82	31.73	95.17	13.17	24.75	20.27
CHARGE BALANCE (%)	-8	-4	1	-6	-7	-1	.	-5	-4	-15	57	39	2
TDS (mg/L)	128	204	946	198	176	320	7898	270	1832	4888	2956	4336	1110
TSS (mg/L)	2	33	2	948	16	-1	81	1	18	43	20	6	12

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-125	GW-162	GW-163	GW-164	GW-209	GW-210	GW-211	GW-225	GW-226	GW-227	GW-290	GW-291	GW-306
Location	S3	BG	BG	BG	EXP	EXP	EXP	OLF	OLF	OLF	BG	BG	RS
Date Sampled	04/06/91	06/11/91	06/12/91	06/13/91	06/04/91	06/05/91	06/06/91	05/17/91	05/13/91	05/12/91	06/20/91	06/21/91	04/26/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	0.06	1.55	0.08	1.60	0.06	0.41	12.97	7.49	8.48	5.99	3.79	3.64	4.54
Magnesium	0.06	0.41	0.01	1.23	0.05	1.89	3.87	4.11	2.14	1.65	0.90	0.99	1.15
Potassium	0.43	0.07	0.03	0.05	0.08	0.09	0.12	0.06	0.15	0.06	0.07	0.05	0.05
Sodium	23.92	0.57	3.52	0.96	0.11	0.30	0.74	0.70	1.87	0.52	0.41	0.39	0.17
Hydrogen Ion	0.00	0.01	0.00	0.00	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	24.47	2.60	3.65	3.84	1.31	2.70	17.70	12.36	12.64	8.21	5.18	5.06	5.91
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	5.32	0.00	0.40	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	11.61	2.32	2.72	3.48	0.22	3.48	2.24	4.34	10.19	5.84	4.46	3.70	5.52
Chloride	5.19	0.11	0.00	0.03	0.00	0.00	0.00	1.16	3.07	0.56	0.11	0.00	0.00
Fluoride	0.22	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.00
Nitrate Nitrogen	0.06	0.00	0.00	0.00	0.00	0.00	0.00	5.64	0.00	1.21	0.00	0.00	0.50
Sulfate	2.00	0.21	0.33	0.23	0.02	0.87	18.37	0.79	0.95	0.81	0.33	0.27	0.44
Hydroxyl Ion	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	24.45	2.64	3.46	3.73	0.24	4.51	20.62	11.93	14.21	8.44	4.91	3.97	6.45
CHARGE BALANCE (%)	0	-1	3	1	69	-25	-8	2	-6	-1	3	12	-4
TDS (mg/L)	1174	134	200	230	66	218	1356	828	792	478	284	266	374
TSS (mg/L)	14	3	11	1	278	29	14	1	66	2	7	9	6

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-307	GW-308	GW-309	GW-310	GW-311	GW-312	GW-313	GW-314	GW-315	GW-316	GW-317	GW-323	GW-324
Location	RS	RS	RS	RS	RS	RS	SPI	SPI	SPI	SPI	SPI	SPI	S3
Date Sampled	04/26/91	04/30/91	04/25/91	04/30/91	04/26/91	04/26/91	04/09/91	04/08/91	04/08/91	04/08/91	04/06/91	04/04/91	04/03/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	7.98	8.98	8.98	5.49	3.44	7.98	4.69	3.34	3.74	1.95	2.15	1.95	1.40
Magnesium	1.32	1.32	1.89	0.90	0.42	0.01	1.81	1.56	1.07	1.73	1.73	2.06	0.43
Potassium	0.09	0.08	0.09	0.07	0.04	0.33	0.03	0.03	0.05	0.06	0.02	0.03	0.02
Sodium	0.39	0.43	0.57	0.30	0.07	0.40	0.04	0.02	0.05	0.01	0.09	0.03	0.20
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	9.78	10.81	11.53	6.77	3.96	8.73	6.57	4.96	4.91	3.75	3.98	4.06	2.05
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	6.29	6.61	8.21	4.62	4.06	0.00	6.06	5.32	4.84	3.76	4.16	4.26	2.00
Chloride	0.65	0.65	0.99	0.23	0.08	0.03	0.06	0.06	0.08	0.06	0.00	0.03	0.03
Fluoride	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Nitrate Nitrogen	0.79	0.57	1.03	0.36	0.05	0.14	0.05	0.07	0.43	0.04	0.01	0.00	0.00
Sulfate	1.56	2.62	1.19	0.81	0.08	0.08	0.04	0.06	0.21	0.06	0.10	0.04	0.19
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	5.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	9.29	10.46	11.42	6.02	4.28	6.68	6.20	5.51	5.56	3.91	4.28	4.33	2.21
CHARGE BALANCE (%)	3	2	1	6	-4	13	3	-5	-6	-2	-4	-3	-4
TDS (mg/L)	540	636	648	436	226	374	324	264	282	184	216	230	120
TSS (mg/L)	3	30	-1	6	1	52	2	-1	-1	3	1	1	-1

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-325	GW-342	GW-343	GW-344	GW-345	GW-347	GW-348	GW-364	GW-365	GW-366	GW-367	GW-369	GW-370
Location	S3	BG	BG	BG	S3	S3	S3	OLF	OLF	OLF	OLF	OLF	BG
Date Sampled	04/04/91	06/13/91	06/14/91	06/15/91	04/14/91	04/04/91	04/04/91	05/12/91	05/14/91	05/11/91	05/11/91	05/15/91	06/10/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	0.13	0.26	1.60	1.60	3.89	1.45	3.74	4.24	6.49	3.04	2.15	2.99	1.65
Magnesium	0.10	0.50	0.82	0.82	0.90	0.20	1.32	1.48	1.97	2.39	1.48	2.39	0.26
Potassium	0.00	0.05	0.07	0.07	0.13	0.09	0.03	0.07	0.09	0.05	0.04	0.13	0.00
Sodium	0.10	0.38	0.29	0.57	0.48	0.04	0.09	0.43	0.61	0.06	0.10	0.41	0.52
Hydrogen Ion	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Total Cations	0.34	2.20	2.78	3.06	5.40	1.78	5.18	6.23	9.16	5.53	3.77	5.93	2.44
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	0.16	0.72	2.52	2.78	0.60	1.72	4.34	4.66	6.35	5.48	3.34	3.32	2.04
Chloride	0.06	0.03	0.06	0.00	0.20	0.00	0.23	1.18	2.12	0.06	0.11	0.73	0.03
Fluoride	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01	0.01
Nitrate Nitrogen	0.00	0.00	0.00	0.00	2.14	0.00	1.00	0.05	0.00	0.00	0.29	1.07	0.00
Sulfate	0.17	0.37	0.10	0.31	0.23	0.04	0.12	0.71	1.08	0.06	0.17	0.67	0.29
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	0.38	1.13	2.69	3.10	3.17	1.76	5.69	6.60	9.55	5.61	3.91	5.80	2.36
CHARGE BALANCE (%)	-6	32	2	-1	26	1	-5	-3	-2	-1	-2	1	2
TDS (mg/L)	-1	88	176	188	308	96	264	.	548	342	228	302	192
TSS (mg/L)	1	416	11	3	4	37	-1	373	2	128	-1	93	54

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-372	GW-373	GW-520	GW-526	GW-531	GW-532	GW-533	GW-534	GW-535	GW-537	GW-538	GW-601	GW-602
Location	BG	BG	OLF	S3	OLF	OLF	OLF	OLF	OLF	OLF	OLF	OLF	OLF
Date Sampled	05/23/91	05/23/91	05/12/91	04/13/91	06/24/91	06/24/91	06/25/91	06/25/91	06/24/91	06/25/91	06/25/91	05/04/91	05/06/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	2.64	0.06	2.99	4.74	0.26	3.09	1.00	3.34	4.34	54.89	2.84	3.69	4.84
Magnesium	0.82	0.01	0.00	2.96	0.12	0.36	0.16	0.68	0.68	4.36	0.39	3.13	3.29
Potassium	0.05	0.02	0.26	0.33	0.00	0.02	0.00	0.05	0.03	0.07	0.02	0.05	0.17
Sodium	0.40	4.35	0.74	52.20	0.24	0.22	0.26	0.34	0.23	0.96	0.16	0.87	0.07
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	3.92	4.45	3.99	60.23	0.63	3.70	1.42	4.42	5.28	60.27	3.42	7.74	8.37
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.60	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	3.68	3.64	0.00	1.06	0.44	3.24	1.24	3.58	3.94	4.16	3.24	3.90	2.64
Chloride	0.06	0.03	1.97	0.39	0.00	0.00	0.03	0.06	0.08	0.56	0.00	1.30	0.06
Fluoride	0.01	0.06	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.04
Nitrate Nitrogen	0.00	0.00	0.00	18.42	0.00	0.00	0.00	0.00	0.00	44.70	0.00	2.64	0.00
Sulfate	0.73	0.33	0.17	0.12	0.06	0.06	0.15	0.15	0.23	0.00	0.10	0.54	6.00
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	4.47	4.65	2.95	20.00	0.51	3.31	1.42	3.78	4.26	49.42	3.35	8.39	8.73
CHARGE BALANCE (%)	-7	-2	15	50	11	6	0	8	11	10	1	-4	-2
TDS (mg/L)	258	292	292	5250	150	224	136	314	296	4310	228	460	548
TSS (mg/L)	21	23	14	5	610	22	53	-1	184	2	91	2	16

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-613	GW-614	GW-615	GW-616	GW-621	GW-622	GW-623	GW-624	GW-626	GW-627	GW-629	GW-630	GW-636
Location	S3	S3	S3	S3	BG	BG	BG	BG	BG	BG	BG	OLF	OLF
Date Sampled	04/04/91	04/04/91	04/10/91	04/12/91	06/20/91	06/20/91	06/21/91	06/21/91	06/20/91	06/22/91	06/22/91	06/25/91	05/16/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	1.30	2.15	499.00	0.20	1.75	3.04	0.05	4.44	1.55	0.05	0.04	3.09	0.38
Magnesium	0.22	0.74	189.20	0.10	0.67	0.26	0.00	0.90	0.18	0.02	0.01	0.47	0.19
Potassium	0.00	0.04	2.81	0.13	0.06	0.03	0.46	0.15	0.04	0.03	0.04	0.03	0.10
Sodium	0.15	0.41	130.50	21.75	0.10	0.08	17.40	0.10	0.17	11.31	10.44	0.21	2.74
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	1.67	3.34	821.51	22.18	2.58	3.41	17.92	5.60	1.94	11.40	10.52	3.80	3.41
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	6.83	0.00	0.00	1.16	1.44	0.00	0.32
Alkalinity-HCO3	1.82	3.42	3.14	2.98	2.90	3.20	5.22	4.32	1.82	9.23	7.41	3.54	3.12
Chloride	0.03	0.00	2.03	0.28	0.11	0.17	1.41	0.00	0.06	0.48	0.25	0.06	0.14
Fluoride	0.00	0.00	0.00	0.03	0.01	0.00	0.38	0.02	0.01	0.31	0.17	0.01	0.01
Nitrate Nitrogen	0.00	0.00	176.30	77.76	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.12	0.29	0.00	0.23	0.08	0.08	1.52	1.19	0.00	0.77	0.42	0.17	0.10
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.02	0.02	0.00	0.00
Total Anions	1.97	3.71	181.47	81.28	3.40	3.45	15.47	5.52	1.89	11.97	9.72	3.77	3.69
CHARGE BALANCE (%)	-8	-5	64	-57	-14	-1	7	1	1	-2	4	0	-4
TDS (mg/L)	142	204	59064	2022	206	212	904	346	112	708	596	236	236
TSS (mg/L)	21	6	101	8	16	-1	1150	23	3	-1	3	1	-1

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-637	GW-638	GW-639	GW-640	GW-641	GW-642	GW-643	GW-644	GW-645	GW-646	GW-647	GW-648	GW-649
Location	OLF	OLF	BG	BG	BG	BG	BG	OLF	OLF	OLF	OLF	RS	OLF
Date Sampled	05/17/91	05/17/91	06/22/91	06/22/91	06/22/91	06/15/91	06/08/91	05/10/91	05/17/91	05/10/91	05/10/91	05/01/91	04/06/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	3.64	4.09	0.05	0.65	0.15	0.38	0.40	1.15	2.00	5.99	3.19	1.70	1.45
Magnesium	0.42	1.07	0.02	0.12	0.06	0.62	0.21	0.16	2.14	4.69	2.63	1.65	0.24
Potassium	0.03	0.15	0.04	0.02	0.00	0.04	0.06	0.02	0.03	0.28	0.10	0.02	0.00
Sodium	0.11	0.48	9.14	0.16	0.08	0.30	0.31	0.18	0.03	0.57	0.10	0.03	0.10
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00	0.00	0.00	0.00	0.00
Total Cations	4.21	5.79	9.24	0.95	0.30	1.34	1.99	1.58	4.20	11.52	6.03	3.40	1.79
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	4.08	4.42	6.67	0.74	0.20	1.06	0.30	1.36	4.06	4.48	3.36	3.48	2.10
Chloride	0.08	0.06	0.25	0.00	0.00	0.03	0.06	0.06	0.03	0.06	0.03	0.03	0.06
Fluoride	0.00	0.02	0.32	0.00	0.00	0.02	0.00	0.00	0.02	0.06	14.05	0.01	0.00
Nitrate Nitrogen	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.17	1.46	0.58	0.06	0.00	0.27	0.44	0.00	0.33	9.19	3.27	0.00	0.15
Hydroxyl Ion	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	4.33	6.00	9.21	0.80	0.20	1.38	0.79	1.42	4.44	13.78	20.72	3.52	2.30
CHARGE BALANCE (%)	-1	-2	0	8	20	-1	43	6	-3	-9	-55	-2	-12
TDS (mg/L)	254	418	528	82	50	112	134	102	252	830	370	182	122
TSS (mg/L)	4	42	12	6	14	30	211	30	17	19	15	2	1

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-651	GW-652	GW-653	GW-654	GW-655	GW-683	GW-684	GW-685	GW-694	GW-695	GW-703	GW-704	GW-705
Location	BG	BG	BG	BG	BG	EXP	EXP	EXP	EXP	EXP	EXP	EXP	EXP
Date Sampled	06/21/91	06/21/91	06/21/91	06/15/91	06/15/91	05/24/91	05/30/91	06/01/91	06/19/91	06/18/91	06/18/91	06/20/91	06/20/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	3.29	3.64	0.12	0.55	0.17	2.99	2.79	3.89	4.04	0.85	1.60	1.75	0.13
Magnesium	0.90	0.62	0.14	0.21	0.44	1.23	1.07	2.06	1.48	0.99	1.65	2.14	0.06
Potassium	0.08	0.07	0.04	0.03	0.05	0.04	0.31	0.04	0.04	0.43	0.11	0.03	0.08
Sodium	0.07	0.04	0.14	1.96	0.27	0.23	0.23	0.74	0.30	2.26	0.22	0.37	10.00
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	4.35	4.37	0.45	2.75	0.93	4.50	4.41	6.73	5.86	4.53	3.57	4.28	10.28
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO ₃	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.84
Alkalinity-HCO ₃	2.30	3.80	0.20	1.94	0.66	3.18	3.20	4.92	4.12	3.04	3.16	3.04	4.96
Chloride	0.11	0.11	0.00	0.00	0.00	0.23	0.34	0.85	0.31	0.17	0.20	0.39	1.52
Fluoride	0.00	0.00	0.00	0.03	0.02	0.01	0.01	0.00	0.02	0.01	0.02	0.02	0.18
Nitrate Nitrogen	0.00	0.00	0.30	0.00	0.00	0.00	0.64	0.14	0.86	0.07	0.43	0.79	0.03
Sulfate	0.19	0.15	0.04	0.29	0.19	0.33	0.35	0.37	0.48	1.31	0.25	0.35	1.83
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total Anions	2.60	4.06	0.24	2.26	0.86	3.74	4.54	6.28	5.78	4.72	4.05	4.59	9.37
CHARGE BALANCE (%)	25	4	30	10	4	9	-2	3	1	-2	-6	-3	5
TDS (mg/L)	138	230	52	164	112	258	266	348	372	288	240	306	618
TSS (mg/L)	6	3	541	4	73	4	-1	18	-1	90	5	2	76

(CONTINUED)

APPENDIX C
Ion-Charge Balance Calculations, Second Quarter 1991

Well No.	GW-706
Location	EXP
Date Sampled	06/20/91
CATIONS (meq/L)	.
Calcium	1.80
Magnesium	1.56
Potassium	0.13
Sodium	0.26
Hydrogen Ion	0.00
Total Cations	3.75
ANIONS (meq/L)	.
Alkalinity-CO3	0.00
Alkalinity-HCO3	3.40
Chloride	0.37
Fluoride	0.01
Nitrate Nitrogen	0.71
Sulfate	0.29
Hydroxyl Ion	0.00
Total Anions	4.78
CHARGE BALANCE (%)	-12
TDS (mg/L)	262
TSS (mg/L)	3

APPENDIX G
Ion-Charge Balance Calculations, Third Quarter 1991

Well No.	GW-013	GW-042	GW-043	GW-044	GW-053	GW-054	GW-056	GW-058	GW-061	GW-063	GW-064	GW-069	GW-074
Location	OLF	BG	OLF	OLF	BG	BG	BG	BG	BG	OLF	OLF	BG	OLF
Date Sampled	08/19/91	09/05/91	08/12/91	08/09/91	09/26/91	09/15/91	09/15/91	09/20/91	09/26/91	08/13/91	08/14/91	09/20/91	08/26/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	5.49	0.19	1.00	2.25	5.49	4.59	3.79	4.24	5.49	7.58	5.99	0.43	0.03
Magnesium	1.07	0.39	0.30	0.00	1.23	1.07	2.06	2.71	1.40	3.78	1.40	0.41	0.01
Potassium	0.05	0.03	0.02	0.03	0.07	0.06	0.08	0.05	0.04	0.07	0.06	0.13	0.03
Sodium	0.17	0.13	0.27	0.20	0.39	0.09	0.87	0.27	0.52	0.33	0.20	2.48	5.22
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	6.77	0.75	1.59	2.47	7.19	5.80	6.80	7.28	7.45	11.77	7.65	3.45	5.30
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	1.44
Alkalinity-HCO3	5.84	0.46	1.36	2.50	5.30	5.12	5.34	5.64	4.42	5.00	5.52	2.44	3.72
Chloride	0.14	0.03	0.00	0.00	1.58	0.23	1.16	0.28	0.62	0.20	0.34	1.10	0.00
Fluoride	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.01
Nitrate Nitrogen	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.15	1.44	0.24	0.50	0.00	0.00
Sulfate	0.08	0.15	0.19	0.00	0.60	0.33	0.52	0.40	0.69	0.25	0.46	0.04	0.15
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Total Anions	6.06	0.68	1.55	2.50	7.48	5.68	7.01	6.47	7.17	5.68	6.81	3.74	5.34
CHARGE BALANCE (%)	6	5	1	-1	-2	1	-2	6	2	2	6	-4	-0
TDS (mg/L)	354	52	120	176	422	344	420	396	472	298	364	240	328
TSS (mg/L)	-1	-1	15	-1	36	11	16	9	5	-1	3	-1	2

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Third Quarter 1991

Well No.	GW-075	GW-080	GW-082	GW-083	GW-084	GW-085	GW-089	GW-095	GW-115	GW-117	GW-118	GW-119	GW-123
Location	OLF	BG	BG	BG	OLF	OLF	BG	BG	S3	BG	BG	BG	S3
Date Sampled	08/27/91	09/07/91	09/25/91	09/14/91	08/09/91	08/13/91	09/07/91	09/23/91	07/01/91	09/23/91	09/23/91	09/23/91	07/12/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	0.08	0.19	2.50	2.05	2.54	10.48	2.10	0.05	3.49	0.10	0.19	0.13	0.04
Magnesium	0.03	0.34	0.49	0.28	0.00	1.15	0.90	0.03	0.82	0.08	0.40	0.23	0.03
Potassium	0.06	0.04	0.03	0.00	0.02	0.04	0.05	0.04	0.05	0.24	0.38	0.31	0.38
Sodium	11.75	0.57	0.19	0.14	0.22	0.43	0.25	5.22	0.38	29.58	87.00	56.55	19.14
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	11.92	1.14	3.19	2.47	2.78	12.10	3.30	5.35	4.75	30.00	87.98	57.22	19.60
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	2.80	2.56	2.96	6.91
Alkalinity-HCO3	8.37	0.70	3.38	2.24	2.84	2.34	2.98	5.08	3.88	10.67	2.64	5.60	9.21
Chloride	0.17	0.00	0.11	0.06	0.00	0.14	0.14	0.03	0.08	16.14	29.76	19.24	0.59
Fluoride	0.26	0.01	0.01	0.01	0.00	0.00	0.01	0.03	0.01	0.21	0.09	0.16	0.36
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.00	8.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.50	0.37	0.16	0.12	0.17	0.10	0.17	0.17	0.35	0.48	0.00	0.27	1.46
Hydroxyl Ion	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.08	0.02	0.08
Total Anions	10.76	1.08	3.66	2.43	3.01	11.44	3.30	5.39	4.32	30.30	35.13	28.24	18.61
CHARGE BALANCE (%)	5	3	-7	1	-4	3	0	-0	5	-0	43	34	3
TDS (mg/L)	638	130	232	140	198	1028	186	336	322	1844	4944	3218	1138
TSS (mg/L)	6	23	2	2	51	5	17	-1	1	12	85	22	14

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Third Quarter 1991

Well No.	GW-125	GW-225	GW-227	GW-243	GW-286	GW-287	GW-309	GW-313	GW-314	GW-315	GW-316	GW-317	GW-323
Location	S3	OLF	OLF	S3	BG	BG	RS	SPI	SPI	SPI	SPI	SPI	SPI
Date Sampled	07/12/91	08/31/91	08/31/91	08/06/91	09/14/91	09/14/91	08/13/91	07/18/91	07/20/91	07/20/91	07/18/91	07/10/91	07/03/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	0.05	6.99	5.99	324.35	2.30	2.40	8.98	3.89	5.49	5.99	1.70	2.05	1.70
Magnesium	0.05	4.11	2.06	54.29	0.35	0.37	2.06	1.81	1.40	0.99	1.73	1.65	2.06
Potassium	0.38	0.06	0.05	3.58	0.02	0.02	0.10	0.03	0.06	0.09	0.05	0.02	0.03
Sodium	21.31	0.61	0.52	36.97	0.20	0.16	0.52	0.06	0.23	0.31	0.03	0.12	0.03
Hydrogen Ion	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	21.80	11.76	8.62	419.30	2.86	2.95	11.66	5.79	7.17	7.38	3.50	3.83	3.81
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	10.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	4.72	4.18	5.50	0.00	2.68	2.14	7.91	5.98	4.86	4.50	3.68	3.96	3.94
Chloride	4.71	0.98	0.56	11.20	0.03	0.06	1.07	0.06	0.23	0.00	0.03	0.00	0.00
Fluoride	0.28	0.01	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00
Nitrate Nitrogen	0.05	5.29	1.49	471.77	0.00	0.00	1.29	0.12	1.29	1.60	0.03	0.00	0.00
Sulfate	1.44	0.68	0.58	15.81	0.12	0.19	1.15	0.07	0.42	0.53	0.08	0.19	0.04
Hydroxyl Ion	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	21.74	11.13	8.13	498.80	2.84	2.39	11.42	6.22	6.78	6.62	3.83	4.15	3.98
CHARGE BALANCE (%)	0	3	3	-9	0	11	1	-4	3	5	-4	-4	-2
TDS (mg/L)	1328	854	482	33258	158	142	634	312	394	472	204	298	214
TSS (mg/L)	8	-1	2	65	-1	12	1	2	-1	1	2	-1	1

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Third Quarter 1991

Well No.	GW-342	GW-343	GW-344	GW-347	GW-348	GW-364	GW-365	GW-366	GW-370	GW-371	GW-372	GW-373	GW-520
Location	BG	BG	BG	S3	S3	OLF	OLF	OLF	BG	BG	BG	BG	OLF
Date Sampled	09/05/91	09/05/91	09/08/91	07/02/91	07/02/91	08/28/91	08/28/91	08/27/91	09/09/91	09/09/91	09/04/91	09/04/91	08/27/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	0.25	1.85	1.45	1.55	3.94	4.69	6.99	2.15	1.75	3.69	3.19	0.06	3.39
Magnesium	0.57	0.99	0.77	0.20	1.40	1.56	2.06	2.80	0.30	1.73	0.90	0.01	0.00
Potassium	0.06	0.09	0.07	0.10	0.04	0.06	0.07	0.05	0.00	0.08	0.05	0.02	0.28
Sodium	0.38	0.29	0.57	0.04	0.10	0.30	0.52	0.06	0.39	0.70	0.38	4.35	0.78
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	1.25	3.21	2.85	1.89	5.48	6.61	9.64	5.05	2.43	6.20	4.52	4.45	4.46
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.60
Alkalinity-HCO3	0.68	2.64	2.70	1.74	4.32	4.60	6.23	5.58	1.98	5.72	3.62	3.70	0.00
Chloride	0.00	0.06	0.00	0.00	0.23	1.04	0.48	0.06	0.03	0.03	0.06	0.03	1.55
Fluoride	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.02	0.01	0.00	0.01	0.08	0.01
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.79	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.19	0.10	0.29	0.02	0.10	0.67	1.06	0.06	0.29	0.33	0.69	0.69	0.00
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.26
Total Anions	0.88	2.80	2.99	1.77	5.44	6.41	7.78	5.71	2.30	6.08	4.37	5.02	3.42
CHARGE BALANCE (%)	18	7	-2	3	0	2	11	-6	3	1	2	-6	13
TDS (mg/L)	94	144	186	166	318	484	500	302	210	366	262	300	290
TSS (mg/L)	114	12	-1	16	2	160	2	106	50	4	15	18	5

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Third Quarter 1991

Well No.	GW-526	GW-537	GW-601	GW-602	GW-613	GW-614	GW-615	GW-616	GW-621	GW-622	GW-623	GW-626	GW-627
Location	S3	OLF	OLF	OLF	S3	S3	S3	S3	BG	BG	BG	BG	BG
Date Sampled	08/02/91	08/14/91	08/30/91	08/22/91	07/01/91	07/02/91	08/05/91	07/27/91	09/10/91	09/25/91	09/26/91	09/26/91	09/25/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	4.84	49.90	3.99	4.99	1.50	1.75	499.00	0.21	3.19	2.94	0.05	1.70	0.04
Magnesium	3.13	5.35	3.13	3.45	0.23	0.76	197.42	0.10	0.90	0.30	0.01	0.21	0.02
Potassium	0.41	0.00	0.04	0.25	0.02	0.04	4.09	0.13	0.05	0.03	0.21	0.04	0.03
Sodium	65.25	1.00	0.87	0.08	0.17	0.42	160.95	23.49	0.19	0.18	15.66	0.16	11.75
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	73.63	56.25	8.03	8.77	1.92	2.96	861.47	23.93	4.34	3.45	15.93	2.10	11.84
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.40	0.00	0.00	6.39	0.00	1.60
Alkalinity-HCO3	1.06	4.40	3.92	2.60	1.58	3.26	3.74	3.00	3.20	3.32	3.44	1.92	9.17
Chloride	0.00	0.59	1.24	0.06	0.03	0.00	0.00	0.25	0.20	0.23	1.38	0.09	0.51
Fluoride	0.01	0.00	0.01	0.04	0.01	0.00	0.00	0.04	0.00	0.00	0.38	0.00	0.29
Nitrate Nitrogen	59.77	46.20	12.14	0.00	0.00	0.00	407.86	17.14	0.68	0.00	0.00	0.00	0.00
Sulfate	0.00	0.00	0.60	5.31	0.12	0.27	0.00	0.29	0.19	0.10	1.33	0.06	0.66
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.04	0.00	0.01
Total Anions	60.83	51.19	17.91	8.09	1.74	3.53	411.60	21.13	4.27	3.65	12.97	2.07	12.24
CHARGE BALANCE (%)	10	5	-38	4	5	-9	35	6	1	-3	10	1	-2
TDS (mg/L)	5270	4174	488	554	196	216	60536	2048	278	222	932	140	710
TSS (mg/L)	7	3	-1	3	27	1	107	17	14	4	37	-1	1

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APPENDIX G
Ion-Charge Balance Calculations, Third Quarter 1991

Well No.	GW-630	GW-636	GW-637	GW-638	GW-639	GW-640	GW-641	GW-642	GW-643	GW-644	GW-645	GW-646	GW-647
Location	OLF	OLF	OLF	OLF	BG	BG	BG	BG	BG	OLF	OLF	OLF	OLF
Date Sampled	08/09/91	08/21/91	08/20/91	08/20/91	09/09/91	09/09/91	09/09/91	09/04/91	09/04/91	08/20/91	08/22/91	08/22/91	08/26/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	3.29	0.41	3.54	5.99	0.04	0.75	0.37	0.44	0.24	1.95	2.35	6.99	3.29
Magnesium	0.53	0.23		1.23	0.02	0.12	0.06	0.58	0.13	0.21	2.47	5.68	2.88
Potassium	0.02	0.15	0.02	0.17	0.04	0.02	1.69	0.05	0.07	0.02	0.06	0.33	0.10
Sodium	0.19	3.04	0.09	0.48	10.44	0.16	0.16	0.33	0.32	0.14	0.04	0.65	0.11
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	4.02	3.83	4.04	7.87	10.54	1.05	2.27	1.40	0.77	2.32	4.91	13.65	6.38
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.04	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	3.74	3.22	3.94	4.46	6.69	0.90	0.30	1.08	0.70	1.68	4.32	4.34	3.38
Chloride	0.06	0.17	0.08	0.06	0.28	0.00	0.00	0.03	0.06	0.06	0.03	0.06	0.03
Fluoride	0.00	0.01	0.00	0.02	0.13	0.00	0.00	0.02	0.01	0.01	0.03	0.07	0.02
Nitrate Nitrogen	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.16	0.12	0.15	1.96	0.62	0.06	0.00	0.23	0.48	0.00	0.37	7.87	2.46
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	3.96	3.56	4.17	6.53	9.26	0.96	0.30	1.36	1.25	1.74	4.75	12.34	5.89
CHARGE BALANCE (%)	1	4	-2	9	6	4	77	2	-24	14	2	5	4
TDS (mg/L)	238	204	236	480	582	84	52	102	114	116	242	816	374
TSS (mg/L)	-1	-1	3	25	11	2	17	48	55	10	8	2	-1

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APPENDIX G
Ion-Charge Balance Calculations, Third Quarter 1991

Well No.	GW-648	GW-649	GW-651	GW-652	GW-653	GW-654	GW-655	GW-683	GW-684	GW-685	GW-694	GW-695	GW-703
Location	RS	OLF	BG	BG	BG	BG	BG	EXP	EXP	EXP	EXP	EXP	EXP
Date Sampled	07/03/91	07/02/91	09/15/91	09/14/91	09/15/91	09/14/91	09/05/91	09/19/91	09/19/91	09/18/91	09/13/91	09/13/91	09/11/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	1.60	1.60	2.64	3.44	0.14	0.65	0.17	4.14	3.79	3.79	6.99	1.10	2.20
Magnesium	1.73	0.27	0.78	0.60	0.08	0.25	0.50	1.81	1.56	1.97	2.14	1.15	1.73
Potassium	0.02	0.02	0.12	0.06	0.02	0.04	0.06	0.06	0.54	0.03	0.16	0.33	0.05
Sodium	0.03	0.13	0.09	0.04	0.12	2.39	0.27	0.48	0.57	0.65	1.26	1.61	0.20
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	3.38	2.02	3.64	4.14	0.36	3.33	1.00	6.49	6.46	6.45	10.55	4.19	4.16
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
Alkalinity-HCO3	3.52	1.94	3.68	3.86	0.30	2.50	0.68	4.04	3.64	4.98	5.76	2.88	3.32
Chloride	0.03	0.06	0.11	0.11	0.00	0.00	0.00	0.59	0.79	0.82	1.33	0.17	0.20
Fluoride	0.02	0.01	0.00	0.00	0.00	0.03	0.01	0.01	0.01	0.01	0.02	0.01	0.02
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.35	0.14	2.62	0.11	0.41
Sulfate	0.02	0.12	0.21	0.15	0.04	0.31	0.19	0.44	0.42	0.37	0.75	0.77	0.25
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	3.58	2.13	4.00	4.12	0.34	2.84	0.88	6.48	6.20	6.31	10.47	3.98	4.19
CHARGE BALANCE (%)	-3	-3	-5	0	2	8	7	0	2	1	0	3	-0
TDS (mg/L)	192	174	200	228	82	192	134	404	414	372	662	228	232
TSS (mg/L)	1	-1	16	1	107	15	335	-1	3	7	2	328	9

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APPENDIX G
Ion-Charge Balance Calculations, Third Quarter 1991

Well No.	GW-704	GW-705	GW-706
Location	EXP	EXP	EXP
Date Sampled	09/12/91	09/10/91	09/13/91
CATIONS (meq/L)	.	.	.
Calcium	2.54	0.09	6.99
Magnesium	1.97	0.06	2.47
Potassium	0.03	0.07	0.23
Sodium	0.35	10.44	1.17
Hydrogen Ion	0.00	0.00	0.00
Total Cations	4.90	10.67	10.86
ANIONS (meq/L)	.	.	.
Alkalinity-CO3	0.00	0.76	0.00
Alkalinity-HCO3	3.54	5.48	6.06
Chloride	0.37	2.14	1.47
Fluoride	0.01	0.17	0.01
Nitrate Nitrogen	0.66	0.03	2.59
Sulfate	0.37	2.02	0.77
Hydroxyl Ion	0.00	0.01	0.00
Total Anions	4.95	10.60	10.89
CHARGE BALANCE (%)	-0	0	-0
TDS (mg/L)	294	660	638
TSS (mg/L)	10	38	13

APPENDIX G
Ion-Charge Balance Calculations, Fourth Quarter 1991

Well No.	GW-013	GW-040	GW-042	GW-043	GW-044	GW-053	GW-054	GW-056	GW-058	GW-061	GW-063	GW-064	GW-069
Location	OLF	BG	BG	OLF	OLF	BG	BG	BG	BG	BG	OLF	OLF	BG
Date Sampled	10/17/91	11/12/91	11/04/91	10/15/91	10/14/91	12/22/91	11/24/91	12/11/91	12/17/91	12/21/91	10/23/91	10/23/91	12/16/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	4.89	0.37	0.17	0.60	2.45	5.49	4.49	3.49	3.94	3.84	4.49	0.12	0.48
Magnesium	0.90	0.49	0.35	0.20	0.26	0.99	1.07	1.89	2.22	0.82	2.47	0.05	0.48
Potassium	0.05	0.06	0.08	0.03	0.02	0.08	0.04	0.07	0.05	0.04	0.09	0.00	0.11
Sodium	0.18	0.61	0.22	0.29	0.16	0.41	0.09	0.87	0.65	0.26	0.52	0.00	2.70
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	6.02	1.53	0.82	1.11	2.88	6.97	5.69	6.32	6.86	4.96	7.58	0.17	3.77
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Alkalinity-HCO3	5.96	0.82	0.48	0.94	2.64	5.18	5.08	5.22	5.08	3.42	6.37	5.62	2.34
Chloride	0.14	0.06	0.04	0.03	0.00	1.30	0.23	1.41	0.65	0.28	0.42	0.37	1.18
Fluoride	0.00	0.02	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.01
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.01	0.44	0.87	0.14	0.52	0.00
Sulfate	0.10	0.71	0.17	0.15	0.12	0.57	0.33	0.56	4.75	0.41	0.35	0.50	0.04
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total Anions	6.20	1.60	0.70	1.12	2.77	7.12	5.64	7.21	10.92	4.98	7.30	7.00	3.77
CHARGE BALANCE (%)	-1	-2	8	-0	2	-1	0	-7	-23	-0	2	-95	-0
TDS (mg/L)	378	126	70	120	190	406	322	412	390	298	402	432	218
TSS (mg/L)	5	24	-1	13	-1	20	31	24	12	7	8	3	2

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APPENDIX G
Ion-Charge Balance Calculations, Fourth Quarter 1991

Well No.	GW-074	GW-075	GW-080	GW-082	GW-083	GW-084	GW-085	GW-089	GW-095	GW-115	GW-117	GW-118	GW-119
Location	OLF	OLF	BG	BG	BG	OLF	OLF	BG	BG	S3	BG	BG	BG
Date Sampled	10/21/91	10/25/91	11/06/91	12/21/91	12/27/91	10/14/91	10/15/91	11/04/91	12/16/91	10/01/91	12/19/91	12/19/91	12/19/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	0.03	0.05	0.22	2.40	2.00	2.59	11.48	2.35	0.06	3.49	0.07	0.05	0.19
Magnesium	0.01	0.02	0.36	0.46	0.27	0.32	1.23	0.99	0.03	0.90	0.07	0.00	0.27
Potassium	0.02	0.06	0.11	0.02	0.03	0.02	0.05	0.06	0.05	0.05	0.28	0.82	0.00
Sodium	5.65	10.00	0.57	0.19	0.14	0.17	0.43	0.30	5.65	0.43	30.45	82.65	52.20
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	5.72	10.15	1.26	3.06	2.44	3.11	13.20	3.69	5.80	4.88	30.87	83.52	52.67
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	1.48	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	3.08	4.60	3.04
Alkalinity-HCO3	3.60	8.11	0.66	3.26	2.28	3.00	2.30	3.26	4.28	4.46	10.05	0.00	5.66
Chloride	0.00	0.14	0.00	0.11	0.06	0.00	0.20	0.18	0.03	0.08	20.11	92.30	50.38
Fluoride	0.02	0.26	0.01	0.02	0.01	0.01	0.00	0.01	0.03	0.00	0.20	0.09	0.16
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.00	0.00	11.52	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.17	0.52	0.50	0.15	0.12	0.17	0.12	0.11	0.17	0.29	0.46	0.00	0.13
Hydroxyl Ion	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.69	0.03
Total Anions	5.26	10.36	1.17	3.53	2.47	3.17	14.15	3.56	5.27	4.83	33.93	97.69	59.40
CHARGE BALANCE (%)	4	-1	4	-7	-1	-1	-3	2	5	0	-5	-8	-6
TDS (mg/L)	324	602	135	208	176	216	1040	218	328	274	1844	4976	3206
TSS (mg/L)	-1	8	550	17	1	55	-1	11	2	1	7	63	11

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Fourth Quarter 1991

Well No.	GW-123	GW-125	GW-225	GW-227	GW-243	GW-286	GW-287	GW-309	GW-313	GW-314	GW-315	GW-316	GW-317
Location	S3	S3	OLF	OLF	S3	BG	BG	RS	SPI	SPI	SPI	SPI	SPI
Date Sampled	10/04/91	10/04/91	11/01/91	11/01/91	10/11/91	11/23/91	11/23/91	10/23/91	10/05/91	10/05/91	10/05/91	10/05/91	10/03/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	0.04	0.03	6.49	5.99	329.34	2.25	1.65	8.98	5.49	4.29	5.99	2.20	2.20
Magnesium	0.01	0.04	3.87	2.55	55.11	0.35	0.42	1.81	1.81	1.73	1.15	1.89	1.65
Potassium	0.38	0.92	0.07	0.06	3.58	0.03	0.05	0.09	0.05	0.03	0.07	0.07	0.02
Sodium	18.27	19.14	0.65	0.57	36.97	0.21	0.18	0.57	0.13	0.15	0.43	0.18	0.17
Hydrogen Ion	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	18.70	20.13	11.07	9.16	425.13	2.84	2.30	11.45	7.48	6.20	7.64	4.34	4.03
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	8.39	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	5.46	0.00	4.06	5.16	0.00	2.70	2.12	7.87	6.91	5.92	4.64	3.82	4.06
Chloride	0.65	4.51	1.13	0.82	11.28	0.04	0.05	1.02	0.06	0.08	0.31	0.03	0.00
Fluoride	0.33	0.22	0.00	0.01	5.79	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00
Nitrate Nitrogen	0.00	0.08	6.21	3.21	419.14	0.00	0.00	1.08	0.14	0.29	2.43	0.03	0.00
Sulfate	1.48	1.33	0.69	0.58	37.49	0.15	0.17	1.10	0.06	0.08	0.35	0.06	0.10
Hydroxyl Ion	0.04	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	16.34	7.26	12.08	9.78	473.71	2.90	2.34	11.07	7.18	6.37	7.73	3.94	4.16
CHARGE BALANCE (%)	7	47	-4	-3	-5	-1	-1	2	2	-1	-1	5	-2
TDS (mg/L)	1092	1132	698	570	33422	194	166	670	390	344	518	188	196
TSS (mg/L)	20	25	2	11	54	45	3	1	5	4	5	7	3

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Fourth Quarter 1991

Well No.	GW-323	GW-342	GW-343	GW-344	GW-347	GW-348	GW-364	GW-365	GW-366	GW-370	GW-371	GW-372	GW-373
Location	SPI	BG	BG	BG	S3	S3	OLF	OLF	OLF	BG	BG	BG	BG
Date Sampled	10/03/91	11/05/91	11/07/91	11/07/91	10/02/91	10/02/91	10/28/91	10/29/91	10/25/91	11/14/91	11/14/91	11/02/91	11/02/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	2.05	0.25	1.45	1.55	3.84	3.79	4.59	6.49	2.05	2.00	3.79	3.09	0.05
Magnesium	2.06	0.58	0.81	0.81	0.62	1.32	1.56	2.14	1.56	0.32	1.73	0.90	0.01
Potassium	0.02	0.05	0.09	0.08	0.15	0.03	0.07	0.09	0.03	0.02	0.08	0.06	0.03
Sodium	0.03	0.29	0.32	0.61	0.12	0.13	0.33	0.61	0.07	0.37	0.70	0.43	4.35
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	4.16	1.17	2.66	3.05	4.73	5.27	6.56	9.32	3.71	2.70	6.30	4.50	4.44
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
Alkalinity-HCO3	4.12	0.82	2.84	2.80	2.10	4.58	4.78	6.29	5.82	2.24	5.84	3.64	3.60
Chloride	0.03	0.00	0.06	0.00	0.00	0.23	1.27	1.72	0.06	0.03	0.03	0.07	0.03
Fluoride	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.02	0.02	0.01	0.01	0.08
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.00	0.29	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.04	0.29	0.10	0.33	0.06	0.08	0.73	1.02	0.08	0.22	0.35	0.76	0.66
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total Anions	4.19	1.12	3.00	3.14	2.17	5.18	6.81	9.04	5.97	2.51	6.22	4.47	4.94
CHARGE BALANCE (%)	-0	2	-6	-1	37	1	-2	2	-23	4	1	0	-5
TDS (mg/L)	204	108	190	196	192	320	388	532	306	180	338	262	304
TSS (mg/L)	6	554	318	3	4	-1	12	2	6	16	18	17	6

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Fourth Quarter 1991

Well No.	GW-520	GW-526	GW-537	GW-601	GW-602	GW-613	GW-614	GW-615	GW-616	GW-621	GW-622	GW-623	GW-626
Location	OLF	S3	OLF	OLF	OLF	S3	S3	S3	S3	BG	BG	BG	BG
Date Sampled	10/24/91	10/06/91	10/23/91	10/31/91	10/18/91	10/01/91	10/01/91	10/08/91	10/07/91	11/16/91	12/21/91	12/22/91	12/22/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	2.59	4.99	0.04	3.94	4.74	1.50	2.40	548.90	0.16	4.44	3.34	0.05	2.00
Magnesium	0.00	3.21	0.02	3.21	3.54	0.24	0.76	213.88	0.10	1.32	0.35	0.01	0.23
Potassium	0.25	0.43	0.00	0.05	0.16	0.00	0.03	0.00	0.12	0.04	0.04	0.18	0.04
Sodium	0.70	56.55	0.00	1.00	0.07	0.17	0.43	134.85	21.31	0.20	0.30	14.79	0.17
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	3.54	65.18	0.06	8.20	8.51	1.90	3.62	897.63	21.70	6.00	4.03	15.04	2.43
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	5.28	0.00
Alkalinity-HCO3	0.00	1.12	4.50	3.86	3.04	1.78	3.36	4.16	3.04	2.94	3.44	7.71	2.02
Chloride	0.25	0.00	0.65	1.33	0.06	0.03	0.00	1.33	0.25	0.12	0.20	1.43	0.26
Fluoride	0.01	0.01	0.00	0.02	0.04	0.00	0.00	0.01	0.04	0.01	0.00	0.40	0.01
Nitrate Nitrogen	0.00	46.91	51.24	2.17	0.02	0.00	0.00	567.81	15.85	0.51	0.00	0.00	0.00
Sulfate	0.17	0.06	0.04	0.67	6.56	0.10	0.23	0.00	0.23	0.12	0.12	1.09	0.06
Hydroxyl Ion	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.04	0.00
Total Anions	2.07	48.10	56.42	8.04	9.72	1.91	3.59	573.29	19.82	3.69	3.76	15.95	2.35
CHARGE BALANCE (%)	26	15	-100	1	-7	-0	0	22	5	24	3	-3	2
TDS (mg/L)	280	5310	4412	466	606	140	218	884	2006	248	204	912	148
TSS (mg/L)	390	20	4	.	4	25	1	33	14	40	2	14	-1

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Fourth Quarter 1991

Well No.	GW-627	GW-630	GW-636	GW-637	GW-638	GW-639	GW-640	GW-641	GW-642	GW-643	GW-644	GW-645	GW-646
Location	BG	OLF	OLF	OLF	OLF	BG	BG	BG	BG	BG	OLF	OLF	OLF
Date Sampled	12/18/91	10/14/91	10/18/91	10/17/91	10/17/91	11/16/91	11/15/91	11/15/91	11/03/91	11/03/91	10/17/91	10/18/91	10/21/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	0.04	3.44	0.39	3.64	4.49	0.04	0.80	0.25	0.34	0.23	1.60	2.00	6.49
Magnesium	0.01	0.53	0.21	0.40	1.15	0.02	0.12	0.06	0.55	0.13	0.16	2.39	6.09
Potassium	0.02	0.02	0.13	0.04	0.14	0.03	0.02	0.00	0.05	0.04	0.00	0.04	0.36
Sodium	12.18	0.18	2.87	0.10	0.23	9.14	0.16	0.10	0.35	0.34	0.15	0.05	0.61
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	12.26	4.17	3.60	4.18	6.01	9.22	1.09	0.42	1.29	0.75	1.91	4.47	13.54
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	1.40	0.00	0.04	0.00	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	9.27	3.84	3.38	4.10	4.06	6.71	0.92	0.40	1.00	0.40	2.14	4.50	4.14
Chloride	0.54	0.06	0.20	0.08	0.03	0.27	0.03	0.00	0.03	0.06	0.06	0.03	0.06
Fluoride	0.74	0.01	0.01	0.00	0.02	0.16	0.01	0.01	0.02	0.00	0.00	0.03	0.08
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sulfate	0.58	0.17	0.12	0.17	3.37	0.58	0.04	0.00	0.25	0.40	0.02	0.48	7.23
Hydroxyl Ion	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Total Anions	12.54	4.07	3.75	4.35	7.55	9.16	0.99	0.40	1.29	0.85	2.22	5.03	11.53
CHARGE BALANCE (%)	-1	1	-2	-2	-11	0	5	2	-0	-6	-7	-6	8
TDS (mg/L)	750	260	236	254	490	556	80	58	108	94	198	274	974
TSS (mg/L)	-1	3	-1	5	502	17	5	159	35	39	486	54	-1

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Fourth Quarter 1991

Well No.	GW-647	GW-648	GW-649	GW-651	GW-652	GW-653	GW-654	GW-655	GW-683	GW-684	GW-685	GW-694	GW-695
Location	OLF	RS	OLF	BG	BG	BG	BG	BG	EXP	EXP	EXP	EXP	EXP
Date Sampled	10/21/91	10/03/91	10/02/91	11/23/91	11/23/91	12/11/91	11/23/91	11/05/91	12/12/91	12/12/91	12/12/91	11/22/91	11/22/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Calcium	2.89	1.85	1.30	3.09	3.74	0.09	0.80	0.17	2.40	1.80	3.64	4.99	0.85
Magnesium	2.80	1.81	0.22	0.90	0.70	0.07	0.33	0.41	1.15	0.90	1.73	1.65	0.99
Potassium	0.09	0.02	0.00	0.11	0.08	0.02	0.04	0.05	0.06	0.59	0.04	0.11	0.33
Sodium	0.10	0.03	0.14	0.10	0.06	0.12	1.91	0.27	0.20	0.24	0.65	0.65	1.61
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	5.88	3.71	1.66	4.22	4.58	0.30	3.08	0.89	3.80	3.53	6.06	7.40	3.78
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
Alkalinity-HCO3	3.30	3.66	1.60	3.20	3.94	0.24	2.30	0.70	2.82	2.48	4.90	4.14	2.98
Chloride	0.03	0.03	0.06	0.12	0.15	0.03	0.00	0.00	0.17	0.32	0.87	0.76	0.17
Fluoride	0.02	0.01	0.01	0.01	0.00	0.01	0.03	0.01	0.01	0.01	0.01	0.03	0.02
Nitrate Nitrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.45	0.20	2.87	0.12
Sulfate	2.69	0.04	0.12	0.20	0.18	0.04	0.31	0.19	0.32	0.29	0.42	0.69	0.69
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	6.03	3.74	1.79	3.51	4.26	0.31	2.64	0.90	3.78	3.55	6.39	8.48	4.37
CHARGE BALANCE (%)	-1	-0	-4	9	4	-2	8	-1	0	-0	-3	-7	-7
TDS (mg/L)	372	164	132	226	290	50	254	94	212	224	350	476	212
TSS (mg/L)	5	5	19	4	29	17	269	107	3	-1	3	5	30

(CONTINUED)

APPENDIX G
Ion-Charge Balance Calculations, Fourth Quarter 1991

Well No.	GW-703	GW-704	GW-705	GW-706	GW-710	GW-711	GW-712
Location	EXP	EXP	EXP	EXP	EXP	EXP	EXP
Date Sampled	11/18/91	11/19/91	11/17/91	11/19/91	12/05/91	12/10/91	12/09/91
CATIONS (meq/L)	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
Calcium	2.35	2.64	0.11	7.98	29.44	25.45	4.79
Magnesium	2.06	2.14	0.05	2.55	18.92	18.10	3.62
Potassium	0.08	0.04	0.08	0.18	0.31	0.54	0.09
Sodium	0.23	0.36	9.57	1.04	15.23	40.02	1.70
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.	.	.	.	.	.	.	.
Total Cations	4.71	5.18	9.81	11.76	63.89	84.10	10.20
.	.	.	.	.	.	.	.
ANIONS (meq/L)	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.48	0.00	0.00	0.00	0.00
Alkalinity-HCO3	3.28	3.60	5.82	5.36	3.34	2.76	3.28
Chloride	0.21	0.45	4.09	1.27	16.28	45.19	1.27
Fluoride	0.02	0.01	0.17	0.01	0.08	0.08	0.03
Nitrate Nitrogen	0.44	0.68	0.00	6.01	0.00	0.00	0.00
Sulfate	0.27	0.37	4.79	0.71	0.96	46.18	8.64
Hydroxyl Ion	0.00	0.00	0.01	0.00	0.00	0.00	0.00
.	.	.	.	.	.	.	.
Total Anions	4.22	5.12	15.35	13.35	20.66	94.21	13.22
.	.	.	.	.	.	.	.
CHARGE BALANCE (%)	6	1	-22	-6	51	-6	-13
.	.	.	.	.	.	.	.
TDS (mg/L)	250	298	960	734	4420	5978	898
TSS (mg/L)	24	16	19	1	30	27	11

APPENDIX G
Ion-Charge Balance Calculations, First Quarter 1991

Surface Water Location	BCK-00.63	BCK-04.55	BCK-09.40	BCK-11.97	NT-13	SS-1	SS-4	SS-5	SS-6	SS-8
Date Sampled	01/18/91	01/18/91	01/18/91	01/18/91	01/18/91	01/18/91	01/18/91	01/18/91	01/18/91	01/18/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Calcium	1.50	1.65	2.94	8.48	0.75	9.98	3.49	2.00	1.05	1.35
Magnesium	0.66	0.74	0.82	1.73	0.23	1.40	1.56	1.07	0.81	0.76
Potassium	0.03	0.03	0.05	0.09	0.03	0.10	0.05	0.03	0.00	0.02
Sodium	0.15	0.16	0.31	1.13	0.13	0.74	0.34	0.18	0.03	0.09
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.	.	.	.	.	.	.	.	.	.	.
Total Cations	2.33	2.57	4.12	11.43	1.14	12.22	5.44	3.27	1.89	2.21
.	.	.	.	.	.	.	.	.	.	.
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	1.90	2.06	2.40	4.22	0.86	6.87	4.14	3.32	1.88	2.14
Chloride	0.11	0.11	0.31	1.07	0.03	1.30	0.37	0.23	0.00	0.00
Fluoride	0.00	0.00	0.02	0.05	0.00	0.01	0.01	0.01	0.00	0.00
Nitrate Nitrogen	0.21	0.21	0.93	5.28	0.00	3.21	0.71	0.36	0.00	0.00
Sulfate	0.21	0.21	0.48	1.06	0.23	0.29	0.37	0.25	0.00	0.00
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.	.	.	.	.	.	.	.	.	.	.
Total Anions	2.43	2.59	4.14	11.68	1.12	11.69	5.60	4.16	1.88	2.14
.	.	.	.	.	.	.	.	.	.	.
CHARGE BALANCE (%)	-2	-0	-0	-1	1	2	-1	-12	0	2
.	.	.	.	.	.	.	.	.	.	.
TDS (mg/L)	122	104	212	790	36	868	308	180	96	118
TSS (mg/L)	6	1	-1	1	18	8	4	2	2	1

APPENDIX G
Ion-Charge Balance Calculations, Second Quarter 1991

Surface Water Location	BCK-00.63	BCK-04.55	BCK-09.40	BCK-11.97	NT-13	SS-1	SS-4	SS-5	SS-6	SS-8
Date Sampled	04/10/91	04/10/91	04/10/91	04/10/91	04/10/91	04/10/91	04/10/91	04/10/91	04/10/91	04/10/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Calcium	1.60	1.70	8.98	3.09	0.85	9.48	3.69	1.95	1.05	1.30
Magnesium	0.76	0.82	1.65	0.90	0.29	1.40	1.48	1.15	0.99	0.82
Potassium	0.03	0.03	0.09	0.05	0.03	0.09	0.04	0.03	0.02	0.02
Sodium	0.15	0.14	1.30	0.55	0.13	0.61	0.31	0.17	0.02	0.07
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	2.53	2.69	12.02	4.40	1.30	11.58	5.53	3.29	2.07	2.21
.	.	.	.	.	.	.	.	.	.	.
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	2.16	2.24	2.50	3.94	1.18	5.22	3.98	2.76	2.10	2.24
Chloride	0.11	0.14	0.39	1.21	0.03	1.38	0.42	0.17	0.00	0.06
Fluoride	0.01	0.01	0.02	0.03	0.00	0.01	0.01	0.01	0.00	0.00
Nitrate Nitrogen	0.29	0.36	1.07	5.21	0.00	3.07	0.86	0.57	0.00	0.03
Sulfate	0.21	0.21	0.42	1.06	0.19	1.00	0.37	0.23	0.06	0.04
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	2.77	2.95	4.40	11.46	1.39	10.67	5.64	3.74	2.16	2.36
.	.	.	.	.	.	.	.	.	.	.
CHARGE BALANCE (%)	-4	-5	46	-45	-3	4	-1	-6	-2	-3
.	.	.	.	.	.	.	.	.	.	.
TDS (mg/L)	172	186	322	960	94	770	336	224	126	146
TSS (mg/L)	11	1	1	1	34	4	-1	1	2	1

APPENDIX G
Ion-Charge Balance Calculations, Third Quarter 1991

Surface Water Location	BCK-00.63	BCK-04.55	BCK-09.40	BCK-11.97	NT-13	SS-1	SS-4	SS-5	SS-6	SS-8
Date Sampled	07/29/91	07/29/91	07/29/91	07/29/91	07/29/91	07/29/91	07/29/91	07/29/91	07/29/91	07/29/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Calcium	2.54	2.50	4.29	6.49	1.70	10.98	5.49	3.44	1.60	1.85
Magnesium	1.15	1.15	1.23	1.32	0.50	1.65	1.89	1.32	1.32	1.15
Potassium	0.05	0.04	0.08	0.14	0.05	0.12	0.06	0.05	0.03	0.03
Sodium	0.20	0.20	0.57	1.30	0.20	1.00	0.57	0.32	0.02	0.06
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.	.	.	.	.	.	.	.	.	.	.
Total Cations	3.95	3.89	6.17	9.24	2.45	13.74	8.01	5.13	2.96	3.09
.	.	.	.	.	.	.	.	.	.	.
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.08	0.00	0.00	0.00	0.08	0.00	0.00	0.00
Alkalinity-HCO3	2.94	3.02	3.20	2.88	2.32	6.57	4.30	3.26	2.84	2.92
Chloride	0.00	0.20	0.00	0.73	0.00	1.83	0.00	0.00	0.00	0.06
Fluoride	0.01	0.01	0.02	0.04	0.01	0.01	0.02	0.02	0.00	0.00
Nitrate Nitrogen	0.49	0.47	2.57	4.71	0.00	4.07	2.64	1.93	0.00	0.02
Sulfate	0.27	0.25	0.56	0.90	0.08	0.96	0.67	0.42	0.06	0.04
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.	.	.	.	.	.	.	.	.	.	.
Total Anions	3.71	3.95	6.43	9.26	2.41	13.45	7.70	5.62	2.90	3.04
.	.	.	.	.	.	.	.	.	.	.
CHARGE BALANCE (%)	3	-1	-2	-0	1	1	2	-5	1	1
.	.	.	.	.	.	.	.	.	.	.
TDS (mg/L)	232	248	438	714	168	950	490	324	160	176
TSS (mg/L)	1	1	2	2	168	11	7	1	2	3

APPENDIX G
Ion-Charge Balance Calculations, Fourth Quarter 1991

Surface Water Location	BCK-00.63	BCK-04.55	BCK-09.40	BCK-11.97	NT-13	SS-1	SS-4	SS-5	SS-6	SS-8
Date Sampled	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91
CATIONS (meq/L)	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Calcium	1.30	1.40	2.40	6.99	0.55	9.98	2.64	1.35	0.85	1.00
Magnesium	0.54	0.60	0.77	1.40	0.16	1.48	1.23	0.90	0.52	0.66
Potassium	0.03	0.04	0.06	0.08	0.04	0.10	0.05	0.02	0.00	0.02
Sodium	0.13	0.14	0.27	1.17	0.11	0.91	0.25	0.11	0.03	0.08
Hydrogen Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cations	2.01	2.18	3.49	9.64	0.87	12.48	4.18	2.38	1.39	1.75
.	.	.	.	.	.	.	.	.	.	.
ANIONS (meq/L)	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Alkalinity-CO3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alkalinity-HCO3	1.54	1.64	2.16	3.54	0.46	6.87	3.36	2.02	1.26	1.58
Chloride	0.08	0.08	0.20	0.87	0.00	1.47	0.23	0.08	0.00	0.06
Fluoride	0.00	0.00	0.01	0.03	0.00	0.01	0.01	0.00	0.00	0.00
Nitrate Nitrogen	0.11	0.14	0.53	4.07	0.00	2.93	0.34	0.10	0.00	0.00
Sulfate	0.21	0.23	0.60	1.02	0.31	1.69	0.31	0.15	0.12	0.08
Hydroxyl Ion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Anions	1.94	2.09	3.50	9.53	0.77	12.97	4.25	2.35	1.38	1.72
.	.	.	.	.	.	.	.	.	.	.
CHARGE BALANCE (%)	2	2	-0	1	6	-2	-1	1	0	1
.	.	.	.	.	.	.	.	.	.	.
TDS (mg/L)	126	134	234	768	64	850	250	132	81	104
TSS (mg/L)	5	9	5	6	19	-1	39	10	2	6

APPENDIX H
NITRATE (AS N) DATA SUMMARY

EXPLANATION

LOCATION:

BG - Bear Creek Burial Grounds WMA
EXP - Exit-Pathway Monitoring Well
OLF - Oil Landfarm WMA
S3 - S-3 Site
SPI - Spoil Area I
RS - Rust Spoil Area

NOTES:

All concentrations reported as nitrate (as N) in milligrams per Liter (mg/L).

Results reported as less than the detection limit (i.e. < 0.2 mg/L) were not used to calculate mean concentrations.

. - Not analyzed
ND - Not detected (mean concentration)

APPENDIX H
Nitrate (as N) Data Summary, 1991

Well No.	GW-005	GW-013	GW-018	GW-037	GW-040	GW-042	GW-043	GW-044	GW-052	GW-053	GW-054	GW-056	GW-057	GW-058
Location	OLF	OLF	BG	BG	BG	BG	OLF	OLF	BG	BG	BG	BG	BG	BG
First Quarter	<0.2	<0.2	<0.2	<0.2	.	<0.2	<0.2	<0.2	12	<0.2	<0.2	0.6	<0.2	5
Second Quarter	<0.2	<0.2	<0.2	<1	.	<0.2	<0.2	<0.2	.	0.26	<0.2	0.44	<0.2	0.64
Third Quarter	.	<0.2	.	.	.	0.4	<0.2	<0.2	.	<0.2	<0.2	<0.2	.	2.11
Fourth Quarter	.	<0.2	.	.	<0.2	<0.2	<0.2	<0.2	.	0.9	<0.2	0.2	.	6.18
Mean	ND	ND	ND	ND	ND	0.4	ND	ND	12	0.58	ND	0.41	ND	3.48

(CONTINUED)

Well No.	GW-061	GW-063	GW-064	GW-069	GW-071	GW-072	GW-074	GW-075	GW-076	GW-077	GW-078	GW-079	GW-080	GW-082
Location	BG	OLF	OLF	BG	BG	BG	OLF	OLF	OLF	BG	BG	BG	BG	BG
First Quarter	7	4	9	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Second Quarter	6	4	0.73	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Third Quarter	20.1	3.3	7	<0.2	.	.	<0.2	<0.2	.	.	.	.	<0.2	<0.2
Fourth Quarter	12.2	1.94	7.23	<0.2	.	.	<0.2	<0.2	.	.	.	.	<0.2	<0.2
Mean	11.33	3.31	5.99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

(CONTINUED)

APPENDIX H
Nitrate (as N) Data Summary, 1991

Well No.	GW-083	GW-084	GW-085	GW-086	GW-089	GW-095	GW-101	GW-115	GW-117	GW-118	GW-119	GW-122	GW-123	GW-125
Location	BG	OLF	OLF	OLF	BG	BG	S3	S3	BG	BG	BG	S3	S3	S3
First Quarter	<0.2	<0.2	157	1	<0.2	<0.2	2510	<0.2	<0.2	<0.2	<0.2	667	<0.2	4
Second Quarter	<0.2	<0.2	115	1.3	<0.2	<0.2	1423	<0.2	<1	4	3	210	<0.2	0.8
Third Quarter	<0.2	<0.2	124	.	<0.2	<0.2	.	<0.2	<0.2	<2.26	<0.2	.	<0.2	0.64
Fourth Quarter	<0.2	<0.2	161.4	.	<0.2	<0.2	.	<0.2	<0.2	<0.2	<0.2	.	<0.2	1.06
Mean	ND	ND	139.35	1.15	ND	ND	1966.5	ND	ND	4	3	438.5	ND	1.63

(CONTINUED)

Well No.	GW-162	GW-163	GW-164	GW-209	GW-210	GW-211	GW-225	GW-226	GW-227	GW-243	GW-286	GW-287	GW-290	GW-291
Location	BG	BG	BG	EXP	EXP	EXP	OLF	OLF	OLF	S3	BG	BG	BG	BG
First Quarter	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	88	0.7	18	9490	.	.	<0.2	0.5
Second Quarter	<0.2	<0.2	<0.2	<0.2	<0.2	<2	79	<0.2	17	.	.	.	<0.2	<2
Third Quarter	.	.	.	.	.	.	74.1	.	20.8	6607	<0.2	<0.2	.	.
Fourth Quarter	.	.	.	.	.	.	87	.	45	5870	<0.2	<0.2	.	.
Mean	ND	ND	ND	ND	ND	ND	82.03	0.7	25.2	7322.33	ND	ND	ND	0.5

(CONTINUED)

APPENDIX H
Nitrate (as N) Data Summary, 1991

Well No.	GW-306	GW-307	GW-308	GW-309	GW-310	GW-311	GW-312	GW-313	GW-314	GW-315	GW-316	GW-317	GW-323	GW-324
Location	RS	RS	RS	RS	RS	RS	RS	SPI	SPI	SPI	SPI	SPI	SPI	S3
First Quarter	11	12	11	14	14	0.7	0.5	1.5	3.1	3	0.6	0.3	<0.2	<0.2
Second Quarter	7	11	8	14.4	5	0.71	2	0.7	0.99	6	0.5	0.2	<0.2	<0.2
Third Quarter	.	.	.	18	.	.	.	1.62	18	22.4	0.43	<0.2	<0.2	.
Fourth Quarter	.	.	.	15.12	.	.	.	2	4	34	0.4	<0.2	<0.2	.
	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	9	11.5	9.5	15.38	9.5	0.71	1.25	1.46	6.52	16.35	0.48	0.25	ND	ND

(CONTINUED)

Well No.	GW-325	GW-342	GW-343	GW-344	GW-345	GW-347	GW-348	GW-364	GW-365	GW-366	GW-367	GW-369	GW-370	GW-371
Location	S3	BG	BG	BG	S3	S3	S3	OLF	OLF	OLF	OLF	OLF	BG	BG
First Quarter	<0.2	<0.2	<0.2	<0.2	139	.	.	0.5	<0.2	<0.2	3	8	<0.2	.
Second Quarter	<0.2	<0.2	<0.2	<0.2	30	<0.2	14	0.65	<0.2	<0.2	4	15	<0.2	.
Third Quarter	.	<0.2	<0.2	<0.2	.	<0.2	11	1.5	<0.2	<0.2	.	.	<0.2	<0.2
Fourth Quarter	.	<0.2	<0.2	<0.2	.	<0.2	4	0.44	<0.2	<0.2	.	.	<0.2	<0.2
	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	ND	ND	ND	ND	84.5	ND	9.67	0.77	ND	ND	3.5	11.5	ND	ND

(CONTINUED)

APPENDIX H
Nitrate (as N) Data Summary, 1991

Well No.	GW-372	GW-373	GW-520	GW-526	GW-531	GW-532	GW-533	GW-534	GW-535	GW-537	GW-538	GW-601	GW-602	GW-613
Location	BG	BG	OLF	S3	OLF	OLF	OLF	OLF	OLF	OLF	OLF	OLF	OLF	S3
First Quarter	<0.2	<0.2	<0.2	1390	<0.2	<0.2	<0.2	<0.2	<0.2	3293	<0.2	25	<10	<0.2
Second Quarter	<0.2	<0.2	<0.2	258	<0.2	<0.2	<0.2	<0.2	<0.2	626	<0.2	37	<2	<0.2
Third Quarter	<0.2	<0.2	<0.2	837	.	.	.	.	.	647	.	170	<0.2	<0.2
Fourth Quarter	<0.2	<0.2	<0.2	657	.	.	.	.	.	717.54	.	30.42	0.26	<0.2
Mean	ND	ND	ND	785.5	ND	ND	ND	ND	ND	1320.89	ND	65.61	0.26	ND

(CONTINUED)

Well No.	GW-614	GW-615	GW-616	GW-621	GW-622	GW-623	GW-624	GW-626	GW-627	GW-629	GW-630	GW-636	GW-637	GW-638
Location	S3	S3	S3	BG	BG	BG	BG	BG	BG	BG	OLF	OLF	OLF	OLF
First Quarter	<0.2	10900	417	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3
Second Quarter	<0.2	2469	1089	4.12	<0.2	<0.2	<1	<0.2	<2	<1	<0.2	<0.2	<0.2	0.77
Third Quarter	<0.2	5712	240	9.58	<0.2	<0.2	.	<0.2	<0.2	.	<0.2	<0.2	<0.2	0.58
Fourth Quarter	<0.2	7952	222	7.18	<0.2	<0.2	.	<0.2	<2.26	.	<0.2	<0.2	<0.2	1.01
Mean	ND	6758.25	492	6.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.67

(CONTINUED)

APPENDIX H
Nitrate (as N) Data Summary, 1981

Well No.	GW-639	GW-640	GW-641	GW-642	GW-643	GW-644	GW-645	GW-646	GW-647	GW-648	GW-649	GW-651	GW-652	GW-653
Location	BG	BG	BG	BG	BG	OLF	OLF	OLF	OLF	RS	OLF	BG	BG	BG
First Quarter	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Second Quarter	<1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Third Quarter	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fourth Quarter	<1.13	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mean	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

(CONTINUED)

Well No.	GW-654	GW-655	GW-683	GW-684	GW-685	GW-694	GW-695	GW-703	GW-704	GW-705	GW-706	GW-710	GW-711	GW-712
Location	BG	BG	EXP	EXP	EXP	EXP	EXP	EXP	EXP	EXP	EXP	EXP	EXP	EXP
First Quarter	0.07	<0.2	.	.	.	.	.	.	.	.	.	.	.	.
Second Quarter	<0.2	<0.2	<0.2	9	2	12	1	6	11	0.4	10	.	.	.
Third Quarter	<0.2	<0.2	19.64	18.89	1.95	36.66	1.57	5.73	9.19	0.36	36.26	.	.	.
Fourth Quarter	<0.2	<0.2	6.4	6.32	2.74	40.23	1.66	6.2	9.55	<1.1	84.15	<2	<23	<2.2
Mean	0.07	ND	13.02	11.4	2.23	29.63	1.41	5.98	9.91	0.38	43.47	ND	ND	ND

APPENDIX H
Nitrate (as N) Data Summary, 1991

Surface Water Location	BCK-00.63	BCK-04.55	BCK-09.40	BCK-11.97	NT-13	SS-1	SS-4	SS-5	SS-6	SS-8
First Quarter	3	3	13	74	<0.2	45	10	5	<10	<10
Second Quarter	4	5	15	73	<0.2	43	12	8	<0.2	0.4
Third Quarter	6.8	6.6	36	66	<0.2	57	37	27	<0.2	0.3
Fourth Quarter	1.57	1.93	7.47	57	<0.2	41	4.77	1.36	<0.2	<0.2
Mean	3.84	4.13	17.87	67.5	ND	46.5	15.94	10.34	ND	0.35

APPENDIX I

VALIDATED RESULTS OF VOLATILE ORGANIC COMPOUND ANALYSES

EXPLANATION

LOCATION:

BG - Bear Creek Burial Grounds WMA
EXP - Exit-Pathway Monitoring Well
OLF - Oil Landfarm WMA
S3 - S-3 Site
SPI - Spoil Area I
RS - Rust Spoil Area

NOTES:

FD - Field Duplicate
FP - False Positive
- - Constituent not detected in associated blank samples (Blank Qualification Results) or not reported (Validated VOC Results)

All results in micrograms per Liter (ug/L).

Compound not detected at the following minimum attainable detection limits (ug/L):

G	=	5	T	=	250
N	=	10	F	=	300
V	=	20	E	=	400
Z	=	25	W	=	500
D	=	30	L	=	1000
A	=	40	P	=	2000
M	=	50	H	=	4000
X	=	80	J	=	5000
Y	=	90	S	=	10000
K	=	100	U	=	20000
B	=	130	C	=	40000
R	=	200			

Results of VOC analyses reported for each groundwater sample were evaluated using results for each associated laboratory and trip blank sample to identify false positives (i.e. results that are probable artifacts of the groundwater sampling or analysis procedures). To identify the false positives, the maximum concentration of each VOC detected in either blank sample (Appendix F) is multiplied by a qualification factor to determine the blank qualification result (BQR) for the compound. A factor of 5 is used for most compounds and a factor of 10 is used for the common laboratory reagents methylene chloride, acetone, 2-butanone, and toluene (U.S. Environmental Protection Agency 1988b). If a compound detected in the blank samples is also detected in an associated groundwater sample, the concentration reported for the groundwater sample (Appendix E) is compared to the corresponding BQR. If the concentration of the compound in the groundwater sample is at or below the BQR, the result is considered a false positive and is excluded from the summed VOC concentration determined for the sample.

CORRELATION OF GROUNDWATER SAMPLES TO ASSOCIATED BLANKS

APPENDIX I
Correlation of Groundwater Samples to Associated Blanks
First Quarter 1991

WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-005	OLF		01/26/91	910128-128	910128-133	910130-138
GW-013	OLF		01/28/91	910129-018	910129-024	910201-038
GW-018	BG		03/21/91	910322-020	910322-022	910327-039
GW-037	BG		03/09/91	910310-014	910310-022	910318-001
GW-042	BG		03/05/91	910307-002	910307-006	910311-001
GW-043	OLF		01/22/91	910123-060	910123-066	910127-003
GW-044	OLF		01/22/91	910123-062	910123-066	910129-003
GW-052	BG		03/20/91	910321-007	910321-009	910326-008
GW-053	BG		03/19/91	910320-015	910320-020	910326-008
GW-054	BG		02/27/91	910227-136	910227-141	910305-003
GW-056	BG		02/26/91	910227-041	910227-046	910301-183
GW-057	BG		02/26/91	910227-042	910227-046	910304-003
GW-058	BG		03/19/91	910320-014	910320-020	910326-008
GW-061	BG		03/19/91	910320-016	910320-020	910326-008
GW-063	OLF		02/08/91	910209-037	910209-039	910214-004
GW-064	OLF		02/20/91	910221-014	910221-016	910222-036
GW-069	BG		03/19/91	910320-010	910320-013	910326-008
GW-071	BG		03/24/91	910325-004	910325-012	910329-002
GW-071	BG	FD	03/24/91	910325-005	910325-012	910329-002
GW-072	BG		03/19/91	910320-009	910320-013	910326-008
GW-074	OLF		01/30/91	910130-118	910130-120	910204-003
GW-075	OLF		01/28/91	910129-019	910129-024	910201-005
GW-075	OLF	FD	01/28/91	910129-020	910129-024	910201-005
GW-076	OLF		01/26/91	910128-127	910128-133	910130-138
GW-077	BG		02/27/91	910227-133	910227-141	910304-003
GW-078	BG		02/27/91	910227-134	910227-141	910304-003
GW-079	BG		02/23/91	910224-090	910224-096	910301-008
GW-080	BG		02/23/91	910224-091	910224-096	910301-008
GW-082	BG		03/09/91	910310-012	910310-022	910318-001
GW-083	BG		03/09/91	910310-013	910310-022	910318-001
GW-084	OLF		01/22/91	910123-064	910123-066	910129-003
GW-085	OLF		01/26/91	910128-126	910128-133	910131-001
GW-086	OLF		01/26/91	910128-117	910128-133	910131-001
GW-089	BG		03/05/91	910307-004	910307-006	910312-001
GW-095	BG		03/19/91	910321-003	910321-009	910325-001
GW-095	BG	FD	03/19/91	910321-005	910321-009	910325-001
GW-101	S3		01/12/91	910115-015	910115-013	910123-001
GW-115	S3		01/05/91	910105-026	910105-028	910109-127
GW-115	S3	FD	01/05/91	910105-029	910105-028	910109-127
GW-117	BG		03/25/91	910326-013	910326-019	910401-002
GW-118	BG		03/25/91	910326-076	910326-078	910401-002
GW-119	BG		03/25/91	910326-012	910326-019	910329-002
GW-122	S3		01/12/91	910115-016	910115-013	910123-001
GW-123	S3		03/25/91	910326-009	910326-019	910329-002
GW-125	S3		03/25/91	910326-010	910326-019	910329-002

APPENDIX I
Correlation of Groundwater Samples to Associated Blanks
First Quarter 1991

WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-162	BG		02/28/91	910302-001	910301-158	910307-001
GW-163	BG		03/02/91	910302-049	910302-051	910308-001
GW-164	BG		03/05/91	910306-013	910306-017	910311-001
GW-164	BG	FD	03/05/91	910306-014	910306-017	910311-001
GW-209	EXP		02/23/91	910224-085	910224-089	910301-008
GW-210	EXP		02/23/91	910224-086	910224-089	910301-008
GW-211	EXP		02/26/91	910227-040	910227-046	910304-003
GW-225	OLF		02/21/91	910221-295	910221-297	910228-074
GW-226	OLF		02/08/91	910209-042	910209-039	910214-004
GW-227	OLF		02/08/91	910209-040	910209-039	910214-004
GW-243	S3		01/22/91	910123-058		910129-045
GW-290	BG		03/21/91	910322-018	910322-022	910327-039
GW-291	BG		03/24/91	910325-002	910325-012	910401-172
GW-306	RS		01/14/91	910116-006	910116-015	910124-001
GW-307	RS		01/14/91	910116-004	910116-015	910124-001
GW-307	RS	FD	01/14/91	910116-005	910116-015	910124-001
GW-308	RS		01/14/91	910116-007	910116-015	910124-001
GW-309	RS		01/13/91	910116-002	910116-036	910123-001
GW-310	RS		01/15/91	910116-017	910116-020	910123-042
GW-311	RS		01/13/91	910116-003	910116-036	910123-001
GW-312	RS		01/14/91	910116-001	910116-015	910124-001
GW-313	SPI		01/09/91	910110-023	910110-025	910117-123
GW-314	SPI		01/08/91	910110-016	910110-022	910115-056
GW-314	SPI	FD	01/08/91	910110-017	910110-022	910115-056
GW-315	SPI		01/08/91	910110-015	910110-022	910115-056
GW-316	SPI		01/08/91	910110-014	910110-022	910115-056
GW-317	SPI		01/06/91	910107-037	910107-042	910110-131
GW-323	SPI		01/06/91	910107-036	910107-042	910110-131
GW-324	S3		01/05/91	910105-023	910105-025	910108-056
GW-325	S3		01/05/91	910105-020	910105-022	910108-056
GW-342	BG		03/06/91	910307-007	910307-009	910311-001
GW-343	BG		03/07/91	910308-060	910308-062	910312-057
GW-344	BG		03/09/91	910310-028	910310-032	910313-004
GW-345	S3		01/16/91	910116-155	910116-159	910125-051
GW-364	OLF		02/07/91	910208-007	910208-009	910211-003
GW-365	OLF		02/09/91	910209-066	910209-068	910212-031
GW-366	OLF		02/01/91	910204-079	910201-259	910206-035
GW-366	OLF	FD	02/01/91	910204-080	910201-259	910206-035
GW-367	OLF		02/02/91	910204-076	910204-078	910206-003
GW-369	OLF		02/10/91	910210-044	910210-046	910212-031
GW-370	BG		02/28/91	910301-156	910301-158	910306-003
GW-372	BG		02/22/91	910224-080	910224-084	910228-074
GW-373	BG		02/22/91	910224-081	910224-084	910228-074
GW-520	OLF		03/25/91	910326-011	910326-019	910329-002
GW-526	S3		01/16/91	910116-157	910116-159	910125-051

APPENDIX I
Correlation of Groundwater Samples to Associated Blanks
First Quarter 1991

WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-531	OLF		03/26/91	910328-022	910328-024	910403-001
GW-532	OLF		03/26/91	910327-016	910327-026	910401-002
GW-533	OLF		03/26/91	910328-025	910328-029	910403-001
GW-534	OLF		03/26/91	910327-020	910327-026	910401-172
GW-535	OLF		03/26/91	910328-027	910328-029	910403-001
GW-537	OLF		03/26/91	910327-019	910327-026	910401-172
GW-538	OLF		03/28/91	910330-001	910330-003	910402-072
GW-601	OLF		01/25/91	910126-008	910126-010	910131-001
GW-602	OLF		01/25/91	910126-006	910126-010	910130-018
GW-613	S3		01/05/91	910105-031	910105-028	910110-131
GW-614	S3		01/05/91	910105-018	910105-022	910108-056
GW-615	S3		01/11/91	910112-006	910112-008	910122-001
GW-616	S3		01/12/91	910115-014	910115-013	910123-001
GW-621	BG		03/20/91	910321-010	910321-014	910326-008
GW-622	BG		03/20/91	910321-012	910321-014	910327-039
GW-623	BG		03/24/91	910325-003	910325-012	910329-002
GW-624	BG		03/24/91	910325-006	910325-012	910329-002
GW-626	BG		03/23/91	910323-024	910323-026	910328-001
GW-627	BG		03/24/91	910325-013	910325-015	910328-100
GW-629	BG		03/26/91	910328-030	910328-032	910403-001
GW-630	OLF	FD	03/26/91	910327-017	910327-026	910401-172
GW-630	OLF		03/26/91	910327-018	910327-026	910401-172
GW-636	OLF		02/11/91	910211-207	910211-209	910214-068
GW-637	OLF		02/12/91	910212-105	910212-111	910221-086
GW-638	OLF		02/12/91	910212-106	910212-111	910221-086
GW-639	BG		03/25/91	910327-008	910327-014	910401-002
GW-640	BG		03/25/91	910327-009	910327-014	910401-002
GW-641	BG		03/25/91	910327-010	910327-014	910401-002
GW-642	BG		03/09/91	910310-015	910310-022	910319-001
GW-643	BG		02/27/91	910227-135	910227-141	910306-003
GW-644	OLF		01/31/91	910201-008	910201-010	910204-040
GW-645	OLF		02/12/91	910212-107	910212-111	910221-086
GW-646	OLF		01/31/91	910201-011	910201-010	910204-040
GW-647	OLF		02/01/91	910201-257	910201-259	910205-001
GW-648	RS		01/15/91	910116-016	910116-020	910123-042
GW-649	OLF		01/06/91	910107-038	910107-042	910111-224
GW-651	BG		03/23/91	910323-027	910323-026	910328-001
GW-652	BG		03/23/91	910323-029	910323-026	910328-001
GW-653	BG		03/23/91	910323-031	910323-026	910328-001
GW-654	BG		03/09/91	910310-016	910310-022	910319-001
GW-655	BG		03/09/91	910310-029	910310-032	910318-001

APPENDIX I
Correlation of Groundwater Samples to Associated Blanks
Second Quarter 1991

WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-005	OLF		05/09/91	910510-173	910510-183	910517-053
GW-013	OLF		05/02/91	910503-002	910503-004	910507-134
GW-018	BG		06/20/91	910621-054	910621-060	910628-240
GW-037	BG		06/14/91	910615-001	910615-005	910620-027
GW-042	BG		06/11/91	910613-006	910613-014	910614-276
GW-043	OLF		05/01/91	910502-024	910502-032	910506-118
GW-044	OLF		05/01/91	910502-026	910502-032	910506-118
GW-053	BG		06/19/91	910620-034	910620-040	910627-065
GW-054	BG		05/31/91	910601-029	910601-031	910605-078
GW-056	BG		05/24/91	910525-009	910525-013	910530-029
GW-057	BG		06/19/91	910620-032	910620-040	910627-065
GW-058	BG		06/20/91	910621-058	910621-060	910628-240
GW-061	BG		06/19/91	910620-036	910620-040	910627-065
GW-063	OLF		05/12/91	910514-004	910514-010	910520-098
GW-064	OLF		05/17/91	910522-008	910522-015	910528-039
GW-069	BG		06/17/91	910620-001	910620-009	910623-001
GW-071	BG		06/21/91	910624-114	910624-118	910911-156
GW-072	BG		06/18/91	910618-025	910618-027	910623-005
GW-074	OLF		05/10/91	910511-017	910511-021	910519-001
GW-075	OLF		05/10/91	910511-019	910511-021	910519-001
GW-076	OLF		05/09/91	910510-175	910510-183	910517-053
GW-077	BG		06/05/91	910606-050	910606-054	910611-088
GW-078	BG		06/05/91	910606-052	910606-054	910611-088
GW-079	BG		06/04/91	910606-002	910606-006	910611-088
GW-080	BG		05/24/91	910525-011	910525-013	910530-029
GW-082	BG		06/11/91	910613-001	910613-005	910613-058
GW-083	BG		06/11/91	910613-008	910613-014	910614-276
GW-084	OLF		05/01/91	910502-028	910502-032	910506-118
GW-085	OLF		05/09/91	910510-177	910510-183	910519-001
GW-085	OLF	FD	05/09/91	910510-179	910510-183	910519-001
GW-086	OLF		05/09/91	910510-181	910510-183	910517-053
GW-089	BG		06/11/91	910613-003	910613-005	910614-276
GW-095	BG		06/18/91	910620-013		910624-176
GW-095	BG	FD	06/18/91	910620-015		910624-176
GW-101	S3		04/14/91	910416-014	910416-017	910422-001
GW-115	S3		04/03/91	910404-006	910404-012	910409-007
GW-115	S3	FD	04/03/91	910404-008	910404-012	910405-003
GW-117	BG		06/17/91	910620-003	910620-009	910623-001
GW-118	BG		06/17/91	910620-005	910620-009	910623-001
GW-119	BG		06/17/91	910620-007	910620-009	910623-001
GW-122	S3		04/13/91	910416-008	910416-012	910419-031
GW-123	S3		04/06/91	910408-033	910408-040	910411-003
GW-125	S3		04/06/91	910408-034	910408-040	910411-003
GW-162	BG		06/11/91	910613-010	910613-014	910614-276
GW-162	BG	FD	06/11/91	910613-012	910613-014	910614-276

APPENDIX I
Correlation of Groundwater Samples to Associated Blanks
Second Quarter 1991

WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-163	BG		06/12/91	910614-080	910614-082	910619-079
GW-164	BG		06/13/91	910614-085	910614-087	910620-027
GW-209	EXP		06/04/91	910606-004	910606-006	910611-088
GW-210	EXP		06/05/91	910606-055	910606-057	910611-088
GW-211	EXP		06/06/91	910608-003	910608-005	910612-115
GW-225	OLF		05/17/91	910522-009	910522-015	910528-039
GW-226	OLF		05/13/91	910514-028	910514-030	910521-001
GW-227	OLF		05/12/91	910514-005	910514-010	910520-098
GW-243	S3		04/18/91	910418-094		
GW-290	BG		06/20/91	910621-229	910621-237	910629-004
GW-291	BG		06/21/91	910624-116	910624-118	910911-158
GW-306	RS		04/26/91	910427-010	910427-016	910501-008
GW-307	RS		04/26/91	910427-012	910427-016	910501-008
GW-308	RS		04/30/91	910502-007	910502-011	910506-001
GW-309	RS		04/25/91	910427-002	910427-006	910501-001
GW-309	RS	FD	04/25/91	910427-004	910427-006	910501-001
GW-310	RS		04/30/91	910502-009	910502-011	910506-001
GW-311	RS		04/26/91	910427-007	910427-009	910501-001
GW-312	RS		04/26/91	910427-014	910427-016	910506-117
GW-313	SPI		04/09/91	910411-033	910411-035	910415-001
GW-314	SPI		04/08/91	910410-108	910410-114	910412-001
GW-314	SPI	FD	04/08/91	910410-109	910410-114	910412-001
GW-315	SPI		04/08/91	910410-107	910410-114	910412-001
GW-316	SPI		04/08/91	910410-106	910410-114	910412-001
GW-317	SPI		04/06/91	910408-032	910408-040	910411-003
GW-323	SPI		04/04/91	910405-027	910405-029	910409-007
GW-324	S3		04/03/91	910404-010	910404-012	910409-007
GW-325	S3		04/04/91	910405-016	910405-022	910408-001
GW-342	BG		06/13/91	910614-083	910614-082	910620-027
GW-343	BG		06/14/91	910615-003	910615-005	910620-027
GW-344	BG		06/15/91	910617-072	910617-074	910621-238
GW-345	S3		04/14/91	910416-013	910416-017	910419-031
GW-347	S3		04/04/91	910405-018	910405-022	910408-001
GW-348	S3		04/04/91	910405-025	910405-029	910409-007
GW-364	OLF		05/12/91	910514-003	910514-010	910520-098
GW-365	OLF		05/14/91	910515-023	910515-027	910521-001
GW-365	OLF	FD	05/14/91	910515-025	910515-027	910521-001
GW-366	OLF		05/11/91	910512-011	910512-015	910519-004
GW-367	OLF		05/11/91	910512-012	910512-015	910519-004
GW-369	OLF		05/15/91	910516-030	910516-032	910521-065
GW-370	BG		06/10/91	910610-087	910610-089	910619-079
GW-372	BG		05/23/91	910524-153	910524-157	910528-039
GW-373	BG		05/23/91	910524-155	910524-157	910528-039
GW-520	OLF		05/12/91	910514-002	910514-010	910520-098
GW-526	S3		04/13/91	910416-009	910416-012	910419-031

APPENDIX I
Correlation of Groundwater Samples to Associated Blanks
Second Quarter 1991

WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-531	OLF		06/24/91	910625-038	910625-040	910911-156
GW-532	OLF		06/24/91	910625-036	910625-040	910911-156
GW-533	OLF		06/25/91	910625-126	910625-136	910629-004
GW-534	OLF		06/25/91	910625-128	910625-136	910703-089
GW-535	OLF		06/24/91	910625-034	910625-040	910911-156
GW-537	OLF		06/25/91	910625-124	910625-136	910703-089
GW-538	OLF		06/25/91	910625-130	910625-136	910703-089
GW-601	OLF		05/04/91	910506-021	910506-023	910514-062
GW-602	OLF		05/06/91	910507-022	910507-024	910514-062
GW-613	S3		04/04/91	910405-020	910405-022	910409-007
GW-614	S3		04/04/91	910405-023	910405-029	910409-007
GW-615	S3		04/10/91	910411-021	910411-023	910417-090
GW-616	S3		04/12/91	910413-065	910413-067	910418-028
GW-621	BG		06/20/91	910621-233	910621-237	910629-004
GW-622	BG		06/20/91	910621-056	910621-060	910628-240
GW-623	BG		06/21/91	910624-069	910624-073	910911-157
GW-624	BG		06/21/91	910624-071	910624-073	910911-158
GW-626	BG		06/20/91	910621-231	910621-237	910629-004
GW-627	BG		06/22/91	910624-119	910624-121	910911-155
GW-629	BG		06/22/91	910624-074	910624-078	910911-157
GW-629	BG	FD	06/22/91	910624-076	910624-078	910911-157
GW-630	OLF		06/25/91	910625-132	910625-136	910703-089
GW-630	OLF	FD	06/25/91	910625-134	910625-136	910703-089
GW-636	OLF		05/16/91	910522-109	910522-111	910531-316
GW-637	OLF		05/17/91	910522-005	910522-015	910528-039
GW-638	OLF		05/17/91	910522-006	910522-015	910528-039
GW-639	BG		06/22/91	910624-122	910625-078	910911-155
GW-640	BG		06/22/91	910625-076	910625-078	910911-155
GW-641	BG		06/22/91	910625-074	910625-078	910911-155
GW-642	BG		06/15/91	910617-054	910617-056	910620-099
GW-643	BG		06/08/91	910608-028	910608-030	910612-115
GW-644	OLF		05/10/91	910511-011	910511-021	910519-001
GW-645	OLF		05/17/91	910522-007	910522-015	910528-039
GW-646	OLF		05/10/91	910511-013	910511-021	910519-001
GW-647	OLF		05/10/91	910511-015	910511-021	910519-001
GW-648	RS		05/01/91	910502-030	910502-032	910506-118
GW-649	OLF		04/06/91	910408-035	910408-040	910411-003
GW-651	BG		06/21/91	910624-018	910624-016	910911-159
GW-652	BG		06/21/91	910624-012	910624-016	910911-159
GW-653	BG		06/21/91	910624-124	910624-126	910911-158
GW-654	BG		06/15/91	910617-050	910617-056	910620-099
GW-655	BG		06/15/91	910617-052	910617-056	910620-099
GW-683	EXP		05/24/91	910525-001	910525-003	910530-029
GW-684	EXP		05/30/91	910601-016	910601-018	910605-001
GW-685	EXP		06/01/91	910605-003	910605-007	910605-078

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WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-685	EXP	FD	06/01/91	910605-004	910605-007	910605-078
GW-694	EXP		06/19/91	910620-010	910620-012	910624-176
GW-695	EXP		06/18/91	910620-084	910618-027	910627-065
GW-703	EXP		06/18/91	910620-082	910618-027	910627-065
GW-704	EXP		06/20/91	910621-063	910621-065	910629-013
GW-705	EXP		06/20/91	910621-061	910621-065	910629-013
GW-706	EXP		06/20/91	910621-235	910621-237	910629-004

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WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-013	OLF		08/19/91	910819-190	910819-192	910822-087
GW-042	BG		09/05/91	910906-281	910906-285	910909-054
GW-043	OLF		08/12/91	910813-012	910813-014	910814-205
GW-044	OLF		08/09/91	910810-009	910810-015	910813-105
GW-053	BG		09/26/91	910927-292	910927-296	910928-025
GW-054	BG		09/15/91	910915-050	910915-058	910918-020
GW-056	BG		09/15/91	910915-052	910915-058	910917-003
GW-058	BG		09/20/91	910920-202	910920-206	910923-006
GW-061	BG		09/26/91	910927-290	910927-296	910928-025
GW-063	OLF		08/13/91	910813-319		
GW-063	OLF		08/13/91	910814-122	910814-123	910814-187
GW-064	OLF		08/14/91	910814-214	910814-220	910816-257
GW-064	OLF	FD	08/14/91	910814-216	910814-220	910816-257
GW-069	BG		09/20/91	910920-204	910920-206	910923-006
GW-074	OLF		08/26/91	910827-093	910827-097	910829-045
GW-075	OLF		08/27/91	910828-010	910828-009	910829-001
GW-080	BG		09/07/91	910908-013	910908-012	910909-054
GW-082	BG		09/25/91	910925-150	910925-154	910926-030
GW-083	BG		09/14/91	910915-009	910915-017	910916-007
GW-084	OLF		08/09/91	910810-011	910810-015	910813-105
GW-085	OLF		08/13/91	910813-321	910813-323	910814-205
GW-089	BG		09/07/91	910908-010	910908-012	910909-118
GW-095	BG		09/23/91	910923-017	910923-019	910924-036
GW-115	S3		07/01/91	910701-093	910701-095	910708-060
GW-117	BG		09/23/91	910924-038	910924-044	910918-034
GW-118	BG		09/23/91	910924-040	910924-044	910918-034
GW-119	BG		09/23/91	910924-042	910924-044	910918-034
GW-123	S3		07/12/91	910712-256	910712-258	910718-001
GW-125	S3		07/12/91	910712-254	910712-258	910719-037
GW-225	OLF		08/31/91	910901-013	910901-012	910903-085
GW-227	OLF		08/31/91	910901-008	910901-012	910904-186
GW-227	OLF	FD	08/31/91	910901-009	910901-012	910904-186
GW-243	S3		08/06/91	910806-234	910806-236	910807-140
GW-286	BG		09/14/91	910915-011	910915-017	910916-189
GW-287	BG		09/14/91	910915-013	910915-017	910916-189
GW-309	RS		08/13/91	910813-317	910813-323	910814-205
GW-313	SPI		07/18/91	910719-001	910719-005	910723-001
GW-314	SPI		07/20/91	910722-001	910722-007	910726-209
GW-314	SPI	FD	07/20/91	910722-003	910722-007	910726-209
GW-315	SPI		07/20/91	910722-005	910722-007	910724-051
GW-316	SPI		07/18/91	910719-003	910719-005	910723-001
GW-317	SPI		07/10/91	910711-063	910711-065	910715-121
GW-323	SPI		07/03/91	910709-059	910709-063	910709-001
GW-342	BG		09/05/91	910906-278	910906-280	910909-002
GW-343	BG		09/05/91	910907-004	910907-011	910909-054

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WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-344	BG		09/08/91	910909-016	910909-020	910910-005
GW-344	BG	FD	09/08/91	910909-018	910909-020	910910-005
GW-347	S3		07/02/91	910709-144	910709-163	910711-001
GW-348	S3		07/02/91	910709-142	910709-163	910711-001
GW-364	OLF		08/28/91	910829-028	910829-032	910829-045
GW-365	OLF		08/28/91	910829-030	910829-032	910830-007
GW-366	OLF		08/27/91	910828-012	910828-009	910829-001
GW-370	BG		09/09/91	910910-029	910910-031	910911-002
GW-371	BG		09/09/91	910909-161	910909-163	910909-118
GW-372	BG		09/04/91	910905-004	910905-008	910904-186
GW-373	BG		09/04/91	910905-011	910905-013	910906-001
GW-520	OLF		08/27/91	910828-007	910828-009	910829-001
GW-526	S3		08/02/91	910802-226	910802-228	910807-002
GW-537	OLF		08/14/91	910814-218	910814-220	910816-001
GW-601	OLF		08/30/91	910831-017	910831-021	910903-009
GW-602	OLF		08/22/91	910823-150	910823-154	910824-001
GW-613	S3		07/01/91	910701-089	910701-095	910708-060
GW-613	S3	FD	07/01/91	910701-091	910701-095	910708-060
GW-614	S3		07/02/91	910709-161	910709-163	910711-001
GW-615	S3		08/05/91	910806-101	910806-103	910808-190
GW-616	S3		07/27/91	910728-001	910728-003	910731-071
GW-621	BG		09/10/91	910911-006	910911-008	910909-054
GW-622	BG		09/25/91	910925-148	910925-154	910926-030
GW-623	BG		09/26/91	910927-294	910927-296	911001-002
GW-626	BG		09/26/91	910927-286	910927-296	910928-025
GW-626	BG	FD	09/26/91	910927-288	910927-296	910928-025
GW-627	BG		09/25/91	910925-152	910925-154	910926-030
GW-630	OLF		08/09/91	910810-013	910810-015	910813-105
GW-636	OLF		08/21/91	910823-173	910823-177	910824-004
GW-636	OLF	FD	08/21/91	910823-175	910823-177	910824-004
GW-637	OLF		08/20/91	910821-073	910821-118	910822-087
GW-638	OLF		08/20/91	910821-075	910821-118	910822-087
GW-639	BG		09/09/91	910910-036	910910-031	910911-002
GW-639	BG	FD	09/09/91	910910-038	910910-031	910911-002
GW-640	BG		09/09/91	910910-032	910910-031	910911-002
GW-641	BG		09/09/91	910910-034	910910-031	910911-002
GW-642	BG		09/04/91	910905-006	910905-008	910906-001
GW-643	BG		09/04/91	910905-009	910905-013	910906-001
GW-644	OLF		08/20/91	910821-116	910821-118	910822-087
GW-645	OLF		08/22/91	910823-148	910823-154	910824-001
GW-646	OLF		08/22/91	910823-152	910823-154	910824-001
GW-647	OLF		08/26/91	910827-095	910827-097	910831-002
GW-648	RS		07/03/91	910709-061	910709-063	910709-001
GW-649	OLF		07/02/91	910709-159	910709-163	910711-001
GW-651	BG		09/15/91	910915-054	910915-058	910917-003

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WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-652	BG		09/14/91	910915-015	910915-017	910916-189
GW-653	BG		09/15/91	910915-056	910915-058	910917-003
GW-654	BG		09/14/91	910914-031	910914-033	910916-007
GW-655	BG		09/05/91	910906-283	910906-285	910909-054
GW-683	EXP	FD	09/19/91	910919-168	910919-172	910922-006
GW-683	EXP		09/19/91	910919-170	910919-172	910922-006
GW-684	EXP		09/19/91	910919-166	910919-172	910922-006
GW-685	EXP		09/18/91	910918-105	910918-107	910920-002
GW-694	EXP		09/13/91	910914-009	910914-013	910915-022
GW-695	EXP		09/13/91	910914-011	910914-013	910915-022
GW-703	EXP		09/11/91	910912-006	910912-008	910913-009
GW-704	EXP		09/12/91	910912-181	910912-183	910914-001
GW-705	EXP		09/10/91	910911-114		
GW-705	EXP		09/11/91	910912-005	910912-008	910913-009
GW-706	EXP		09/13/91	910914-006	910914-008	910915-022

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WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-013	OLF		10/17/91	911018-014	911018-016	911021-002
GW-040	BG		11/12/91	911113-021	911113-023	911114-001
GW-042	BG		11/04/91	911105-012	911105-014	911108-001
GW-043	OLF		10/15/91	911016-001	911016-005	911017-001
GW-044	OLF		10/14/91	911015-018	911015-024	911011-174
GW-053	BG		12/22/91	911223-002	911223-004	920120-124
GW-054	BG		11/24/91	911126-027	911126-029	911204-011
GW-056	BG		12/11/91	911211-105	911211-107	911213-001
GW-058	BG		12/17/91	911218-021	911218-023	911218-001
GW-061	BG		12/21/91	911222-004	911222-003	911227-071
GW-063	OLF		10/23/91	911023-183	911023-182	911027-029
GW-064	OLF		10/23/91	911023-185	911023-182	911028-002
GW-069	BG		12/16/91	911217-010	911217-012	911217-001
GW-074	OLF		10/21/91	911022-145	911022-149	911023-005
GW-075	OLF		10/25/91	911027-003	911027-007	911028-036
GW-080	BG		11/06/91	911107-011	911111-041	911111-002
GW-082	BG		12/21/91	911222-006	911222-003	911226-140
GW-083	BG		12/27/91	911228-007	911228-004	911231-082
GW-084	OLF		10/14/91	911015-020	911015-024	911011-174
GW-085	OLF		10/15/91	911016-003	911016-005	911017-001
GW-089	BG		11/04/91	911105-015	911105-014	911108-001
GW-095	BG		12/16/91	911217-013	911217-012	911217-057
GW-115	S3		10/01/91	911001-100	911001-102	911002-181
GW-117	BG		12/19/91	911220-001	911220-007	911223-047
GW-118	BG		12/19/91	911220-005	911220-007	911223-047
GW-119	BG		12/19/91	911220-003	911220-007	911223-047
GW-123	S3		10/04/91	911005-015	911005-019	911008-043
GW-125	S3		10/04/91	911005-017	911005-019	911009-001
GW-225	OLF		11/01/91	911102-025	911102-024	911108-001
GW-227	OLF		11/01/91	911102-022	911102-024	911105-048
GW-243	S3		10/11/91	911014-054	911014-056	911016-009
GW-286	BG		11/23/91	911124-028	911124-023	911126-026
GW-287	BG		11/23/91	911124-026	911124-023	911126-026
GW-309	RS		10/23/91	911023-180	911023-182	911027-029
GW-313	SPI		10/05/91	911006-005	911006-013	911010-003
GW-314	SPI		10/05/91	911006-007	911006-013	911010-003
GW-315	SPI		10/05/91	911006-009	911006-013	911010-003
GW-315	SPI	FD	10/05/91	911006-011	911006-013	911010-003
GW-316	SPI		10/05/91	911006-033	911006-035	911009-001
GW-317	SPI		10/03/91	911004-464	911004-468	911008-043
GW-323	SPI		10/03/91	911004-462	911004-468	911008-043
GW-342	BG		11/05/91	911106-089	911106-088	911111-002
GW-343	BG		11/07/91	911108-020	911108-022	911112-001
GW-344	BG		11/07/91	911111-058	911111-060	911112-001
GW-344	BG	FD	11/07/91	911111-061	911111-060	911112-001

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WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-347	S3		10/02/91	911002-214	911002-220	911004-001
GW-348	S3		10/02/91	911002-216	911002-220	911004-001
GW-364	OLF		10/28/91	911029-004	911029-006	911030-001
GW-365	OLF		10/29/91	911030-004	911030-006	911031-001
GW-366	OLF		10/25/91	911027-005	911027-007	911028-036
GW-370	BG		11/14/91	911115-090	911115-089	911118-002
GW-371	BG		11/14/91	911115-087	911115-089	911118-002
GW-372	BG		11/02/91	911103-080	911103-074	911107-008
GW-373	BG		11/02/91	911103-072	911103-074	911105-048
GW-520	OLF		10/24/91	911024-079	911024-081	911028-036
GW-526	S3		10/06/91	911007-006	911007-008	911012-001
GW-537	OLF		10/23/91	911023-187	911023-182	911027-029
GW-537	OLF	FD	10/23/91	911023-189	911023-182	911027-029
GW-601	OLF		10/31/91	911031-072	911031-074	911101-243
GW-601	OLF	FD	10/31/91	911031-075	911031-074	911101-243
GW-602	OLF		10/18/91	911020-006	911020-010	911022-001
GW-613	S3		10/01/91	911001-094	911001-102	911002-181
GW-613	S3	FD	10/01/91	911001-096	911001-102	911002-181
GW-614	S3		10/01/91	911001-098	911001-102	911002-181
GW-615	S3		10/08/91	911009-012	911009-014	911011-197
GW-616	S3		10/07/91	911008-105	911008-107	911010-128
GW-621	BG		11/16/91	911118-022	911118-026	911119-001
GW-622	BG		12/21/91	911222-001	911222-003	911227-071
GW-623	BG		12/22/91	911223-005	911223-004	911227-116
GW-626	BG		12/22/91	911223-007	911223-004	911227-116
GW-627	BG		12/18/91	911218-065	911218-069	911227-071
GW-627	BG	FD	12/18/91	911218-067	911218-069	911220-057
GW-630	OLF		10/14/91	911015-022	911015-024	911015-125
GW-636	OLF		10/18/91	911020-001	911020-005	911022-001
GW-636	OLF	FD	10/18/91	911020-003	911020-005	911022-001
GW-637	OLF		10/17/91	911018-017	911018-016	911021-002
GW-638	OLF		10/17/91	911018-012	911019-006	911021-002
GW-639	BG		11/16/91	911118-024	911118-026	911119-001
GW-640	BG		11/15/91	911115-394	911115-393	911119-001
GW-640	BG	FD	11/15/91	911115-396	911115-393	911119-001
GW-641	BG		11/15/91	911115-391	911115-393	911119-001
GW-642	BG		11/03/91	911103-077	911103-079	911108-001
GW-643	BG		11/03/91	911103-075	911103-079	911105-048
GW-644	OLF		10/17/91	911018-019	911018-016	911021-002
GW-645	OLF		10/18/91	911020-008	911020-010	911022-001
GW-646	OLF		10/21/91	911022-147	911022-149	911023-005
GW-647	OLF		10/21/91	911022-143	911022-149	911023-005
GW-648	RS		10/03/91	911004-466	911004-468	911008-043
GW-649	OLF		10/02/91	911002-218	911002-220	911002-178
GW-651	BG		11/23/91	911124-024	911124-023	911126-026

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Correlation of Groundwater Samples to Associated Blanks
Fourth Quarter 1991

WELL NO.	LOCATION	TYPE	DATE	SAMPLE NO.	TRIP BLANK NO.	LAB BLANK NO.
GW-652	BG		11/23/91	911124-030	911124-023	911126-026
GW-653	BG		12/11/91	911211-108	911211-107	911213-001
GW-654	BG		11/23/91	911124-021	911124-023	911126-026
GW-655	BG		11/05/91	911106-091	911106-088	911111-002
GW-683	EXP		12/12/91	911213-011	911213-013	911216-002
GW-684	EXP		12/12/91	911213-009	911213-013	911216-002
GW-685	EXP		12/12/91	911213-004	911213-008	911216-002
GW-685	EXP	FD	12/12/91	911213-006	911213-008	911216-002
GW-694	EXP		11/22/91	911122-130	911122-132	911126-026
GW-695	EXP		11/22/91	911122-093	911122-095	911125-059
GW-703	EXP		11/18/91	911119-030	911119-038	911125-059
GW-704	EXP		11/19/91	911120-043	911120-045	911121-053
GW-705	EXP		11/17/91	911118-039	911118-052	911119-096
GW-706	EXP		11/19/91	911121-220	911121-224	911125-059
GW-710	EXP		12/05/91	911206-019	911206-021	911210-027
GW-711	EXP		12/10/91	911211-042	911211-044	911213-001
GW-712	EXP		12/09/91	911209-151	911209-153	911210-027

BLANK QUALIFICATION RESULTS

APPENDIX I
Blank Qualification Results, First Quarter 1991

Well No.	GW-053	GW-056	GW-063	GW-064	GW-071	GW-072	GW-074	GW-082	GW-089	GW-117	GW-119	GW-122
Location	BG	BG	OLF	OLF	BG	BG	OLF	BG	BG	BG	BG	S3
Date Sampled	03/19/91	02/26/91	02/08/91	02/20/91	03/24/91	03/19/91	01/30/91	03/09/91	03/05/91	03/25/91	03/25/91	01/12/91
Acetone	.	.	.	.	.	.	.	.	.	.	.	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Bromoform	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	70	4	.	5	10	15	5	15	.	.	4	65
Chloromethane	.	.	.	.	.	.	.	.	.	.	.	.
1,2-Dichloroethene	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	.	.	.	.	.	.	.	.	.	.	20
Methylene chloride	.	.	.	10	30	.	.	.	.	.	.	.
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	.	10
Toluene	.	.	.	.	.	.	.	.	.	.	.	.
1,1,2-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Vinyl acetate	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, First Quarter 1991

Well No.	GW-123	GW-125	GW-225	GW-226	GW-227	GW-243	GW-291	GW-306	GW-307	GW-308	GW-309	GW-310
Location	S3	S3	OLF	OLF	OLF	S3	BG	RS	RS	RS	RS	RS
Date Sampled	03/25/91	03/25/91	02/21/91	02/08/91	02/08/91	01/22/91	03/24/91	01/14/91	01/14/91	01/14/91	01/13/91	01/15/91
Acetone	.	.	160	.	.	.	.	.	.	.	.	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Bromoform	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	4	4	4	.	.	.	10	65	65	65	65	.
Chloromethane	.	.	.	.	.	.	.	.	.	.	.	.
1,2-Dichloroethene	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	.	.	.	.	.	.	.	.	.	20	.
Methylene chloride	.	.	20	.	.	.	30	.	.	.	.	.
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	10	.
Toluene	.	.	.	.	.	.	.	.	.	.	.	.
1,1,2-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Vinyl acetate	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, First Quarter 1991

Well No.	GW-311	GW-312	GW-313	GW-314	GW-315	GW-316	GW-343	GW-364	GW-365	GW-367	GW-369	GW-372
Location	RS	RS	SPI	SPI	SPI	SPI	BG	OLF	OLF	OLF	OLF	BG
Date Sampled	01/13/91	01/14/91	01/09/91	01/08/91	01/08/91	01/08/91	03/07/91	02/07/91	02/09/91	02/02/91	02/10/91	02/22/91
Acetone	.	.	.	.	.	.	.	.	.	.	.	160
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Bromoform	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	65	65	.	.	.	.	10	50	5	20	.	10
Chloromethane	.	.	.	.	.	.	.	.	.	.	.	.
1,2-Dichloroethene	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanohe	20	.	.	.	.	.	.	.	.	.	.	.
Methylene chloride	.	.	.	.	.	.	10	.	.	.	.	20
1,1,2,2-Tetrachloroethane	10	.	.	.	.	.	.	.	.	.	.	.
Toluene	.	.	.	.	.	.	.	8	8	.	.	.
1,1,2-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Vinyl acetate	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	10	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, First Quarter 1991

Well No.	GW-373	GW-520	GW-534	GW-537	GW-601	GW-615	GW-623	GW-624	GW-626	GW-627	GW-629	GW-630
Location	BG	OLF	OLF	OLF	OLF	S3	BG	BG	BG	BG	BG	OLF
Date Sampled	02/22/91	03/25/91	03/26/91	03/26/91	01/25/91	01/11/91	03/24/91	03/24/91	03/23/91	03/24/91	03/26/91	03/26/91
Acetone	160	.	90	90	.	.	.	.	.	60	.	90
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Bromoform	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	10	4	105	105	10	.	10	10	5	10	110	105
Chloromethane	.	.	.	.	.	.	.	.	.	.	.	.
1,2-Dichloroethene	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	.	.	.	.	.	.	.	.	.	.	.
Methylene chloride	20	.	10	10	.	.	30	30	.	.	.	10
1,1,2,2-Tetrachloroethane	.	.	.	.	.	5	.	.	.	.	.	.
Toluene	.	.	.	.	.	.	.	.	.	.	.	.
1,1,2-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Vinyl acetate	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, First Quarter 1991

Well No.	GW-637	GW-638	GW-645	GW-647	GW-653
Location	OLF	OLF	OLF	OLF	BG
Date Sampled	02/12/91	02/12/91	02/12/91	02/01/91	03/23/91
Acetone	.	.	.	.	.
Bromodichloromethane	.	.	.	.	.
Bromoform	.	.	.	.	.
Chloroform	10	10	10	25	5
Chloromethane	.	.	.	.	.
1,2-Dichloroethene	.	.	.	.	.
4-Methyl-2-pentanone	.	.	.	.	.
Methylene chloride	20	20	20	.	.
1,1,2,2-Tetrachloroethane	.	.	.	.	.
Toluene	.	.	.	10	.
1,1,2-Trichloroethane	.	.	.	.	.
Vinyl acetate	5	5	5	.	.
Xylenes	.	.	.	.	.

APPENDIX I
Blank Qualification Results, Second Quarter 1991

Well No.	GW-018	GW-037	GW-042	GW-053	GW-054	GW-056	GW-057	GW-058	GW-061	GW-063	GW-064	GW-069
Location	BG	BG	BG	BG	BG	BG	BG	BG	BG	OLF	OLF	BG
Date Sampled	06/20/91	06/14/91	06/11/91	06/19/91	05/31/91	05/24/91	06/19/91	06/20/91	06/19/91	05/12/91	05/17/91	06/17/91
Acetone	.	.	.	.	.	.	.	.	.	.	90	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	10	30	135	125	15	45	125	10	125	.	20	20
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	10	20	.	.	.	.	.	10	.	.	.	.
Methylene chloride	160	170	.	170	20	170	170	160	170	.	160	160
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	.	.
1,1,1-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

Well No.	GW-071	GW-072	GW-080	GW-082	GW-089	GW-095	GW-117	GW-118	GW-119	GW-163	GW-164	GW-225
Location	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	OLF
Date Sampled	06/21/91	06/18/91	05/24/91	06/11/91	06/11/91	06/18/91	06/17/91	06/17/91	06/17/91	06/12/91	06/13/91	05/17/91
Acetone	.	.	.	.	.	.	.	.	.	.	.	90
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	115	65	45	140	140	.	20	20	20	80	65	20
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	.	.	.	.	.	.	.	.	.	20	.
Methylene chloride	20	.	170	.	.	170	160	160	160	.	170	160
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	.	.
1,1,1-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Second Quarter 1991

Well No.	GW-226	GW-227	GW-290	GW-291	GW-306	GW-307	GW-308	GW-309	GW-310	GW-311	GW-312	GW-313
Location	OLF	OLF	BG	BG	RS	RS	RS	RS	RS	RS	RS	SPI
Date Sampled	05/13/91	05/12/91	06/20/91	06/21/91	04/26/91	04/26/91	04/30/91	04/25/91	04/30/91	04/26/91	04/26/91	04/09/91
Acetone	.	.	130	90	.	.	.	.	.	.	.	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	10	.	20	115	10	10	35	10	35	.	10	10
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	.	.	.	.	.	.	.	.	.	.	.
Methylene chloride	.	.	.	20	.	.	.	.	.	.	.	.
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	.	.
1,1,1-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

Well No.	GW-314	GW-315	GW-342	GW-343	GW-364	GW-365	GW-367	GW-369	GW-370	GW-372	GW-373	GW-533
Location	SPI	SPI	BG	BG	OLF	OLF	OLF	OLF	BG	BG	BG	OLF
Date Sampled	04/08/91	04/08/91	06/13/91	06/14/91	05/12/91	05/14/91	05/11/91	05/15/91	06/10/91	05/23/91	05/23/91	06/25/91
Acetone	.	.	.	.	.	.	.	.	.	90	90	90
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	5	5	80	30	.	15	10	25	110	15	15	35
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	.	20	20	.	.	.	.	.	.	.	.
Methylene chloride	.	.	170	170	.	.	.	.	.	170	170	.
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	.	.
1,1,1-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Second Quarter 1991

Well No.	GW-534	GW-537	GW-538	GW-601	GW-615	GW-621	GW-622	GW-623	GW-624	GW-626	GW-627	GW-629
Location	OLF	OLF	OLF	OLF	S3	BG	BG	BG	BG	BG	BG	BG
Date Sampled	06/25/91	06/25/91	06/25/91	05/04/91	04/10/91	06/20/91	06/20/91	06/21/91	06/21/91	06/20/91	06/22/91	06/22/91
Acetone	90	90	90	.	.	130	.	.	90	130	.	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	35	35	35	10	4	20	10	130	130	20	45	50
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	15	15	15	.	.	.	10	.	.	.	.	.
Methylene chloride	170	170	170	.	20	.	160	.	.	.	.	50
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	.	.
1,1,1-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

Well No.	GW-630	GW-637	GW-638	GW-642	GW-645	GW-653	GW-654	GW-655	GW-683	GW-684	GW-685	GW-694
Location	OLF	OLF	OLF	BG	OLF	BG	BG	BG	EXP	EXP	EXP	EXP
Date Sampled	06/25/91	05/17/91	05/17/91	06/15/91	05/17/91	06/21/91	06/15/91	06/15/91	05/24/91	05/30/91	06/01/91	06/19/91
Acetone	90	90	90	100	90	90	100	100	.	.	.	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	35	20	20	115	20	145	115	115	35	60	10	70
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	15	.	.	.	.	.	.	.	.	.	.	.
Methylene chloride	170	160	160	.	160	20	.	.	170	.	20	170
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	.	.
1,1,1-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Second Quarter 1991

Well No.	GW-695	GW-703	GW-704	GW-705	GW-706
Location	EXP	EXP	EXP	EXP	EXP
Date Sampled	06/18/91	06/18/91	06/20/91	06/20/91	06/20/91
Acetone	.	.	.	.	130
Bromodichloromethane	.	.	.	.	.
Carbon disulfide	.	.	.	.	.
Chloroform	65	65	35	35	20
1,2-Dichloropropane	.	.	.	.	.
4-Methyl-2-pentanone	.	.	.	.	.
Methylene chloride	170	170	170	170	.
1,1,2,2-Tetrachloroethane	.	.	.	.	.
1,1,1-Trichloroethane	.	.	.	.	.

APPENDIX I
Blank Qualification Results, Third Quarter 1991

Well No.	GW-042	GW-044	GW-053	GW-054	GW-056	GW-058	GW-061	GW-063	GW-064	GW-080	GW-082	GW-083
Location	BG	OLF	BG	BG	BG	BG	BG	OLF	OLF	BG	BG	BG
Date Sampled	09/05/91	08/09/91	09/26/91	09/15/91	09/15/91	09/20/91	09/26/91	08/13/91	08/14/91	09/07/91	09/25/91	09/14/91
Acetone	.	290	.	220	220	.	.	110	.	.	.	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	50	.	.	.	.
Chloroform	.	.	.	.	.	.	.	.	10	.	2	.
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
Ethylbenzene	.	.	.	.	.	.	.	.	.	.	.	.
2-Hexanone	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	.	20	.	.	.	20	.	.	.	20	.
Methylene chloride	10	.	410	.	.	30	410	20	50	40	50	90
Toluene	.	.	10	20	20	6	10	10	.	.	10	10
1,1,1-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Vinyl acetate	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Third Quarter 1991

Well No.	GW-084	GW-089	GW-095	GW-115	GW-117	GW-118	GW-119	GW-123	GW-125	GW-225	GW-227	GW-243
Location	OLF	BG	BG	S3	BG	BG	BG	S3	S3	OLF	OLF	S3
Date Sampled	08/09/91	09/07/91	09/23/91	07/01/91	09/23/91	09/23/91	09/23/91	07/12/91	07/12/91	08/31/91	08/31/91	08/06/91
Acetone	290	.	.	.	.	.	.	.	110	.	.	.
Bromodichloromethane	.	.	.	5	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	.	.	.	175	.	.	.	.	.	4	4	.
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
Ethylbenzene	.	.	.	.	.	.	.	.	.	.	.	.
2-Hexanone	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	.	.	.	10	10	10	.	10	.	.	.
Methylene chloride	.	40	20	.	10	10	10	.	160	970	970	.
Toluene	.	.	7	.	10	10	10	.	.	.	.	.
1,1,1-Trichloroethane	.	.	.	5	.	.	.	.	.	.	.	.
Vinyl acetate	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Third Quarter 1991

Well No.	GW-309	GW-313	GW-314	GW-315	GW-316	GW-323	GW-344	GW-347	GW-348	GW-364	GW-365	GW-366
Location	RS	SPI	SPI	SPI	SPI	SPI	BG	S3	S3	OLF	OLF	OLF
Date Sampled	08/13/91	07/18/91	07/20/91	07/20/91	07/18/91	07/03/91	09/08/91	07/02/91	07/02/91	08/28/91	08/28/91	08/27/91
Acetone	190	.	.	.	.	.	.	.	.	.	.	.
Bromodichloromethane	20	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	175	.	.	.	.	45	.	50	50	5	5	20
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
Ethylbenzene	.	.	.	.	.	.	.	.	.	.	.	.
2-Hexanone	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	.	10	10	.	.	.	.	.	.	.	.
Methylene chloride	10	20	160	160	20	30	20	.	.	400	400	90
Toluene	.	5	.	.	5	.	5	.	.	9	9	7
1,1,1-Trichloroethane	.	.	.	.	.	5	.	5	5	.	.	.
Vinyl acetate	.	.	.	5	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Third Quarter 1991

Well No.	GW-370	GW-373	GW-520	GW-526	GW-601	GW-613	GW-614	GW-615	GW-616	GW-622	GW-623	GW-626
Location	BG	BG	OLF	S3	OLF	S3	S3	S3	S3	BG	BG	BG
Date Sampled	09/09/91	09/04/91	08/27/91	08/02/91	08/30/91	07/01/91	07/02/91	08/05/91	07/27/91	09/25/91	09/26/91	09/26/91
Acetone	.	.	.	.	.	.	.	.	.	.	.	.
Bromodichloromethane	.	.	.	.	.	5	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	.	.	20	4	.	175	50	.	.	2	.	.
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
Ethylbenzene	.	.	.	.	4	.	.	.	.	.	2	.
2-Hexanone	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	10	.	.	.	25	.	.	.	10	20	20	20
Methylene chloride	260	390	90	20	10	.	.	.	160	50	410	410
Toluene	8	.	7	.	40	.	.	.	.	10	30	10
1,1,1-Trichloroethane	.	.	.	.	.	5	5	.	.	.	.	.
Vinyl acetate	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	20	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Third Quarter 1991

Well No.	GW-627	GW-630	GW-639	GW-640	GW-641	GW-648	GW-649	GW-651	GW-653	GW-654	GW-685	GW-694
Location	BG	OLF	BG	BG	BG	RS	OLF	BG	BG	BG	EXP	EXP
Date Sampled	09/25/91	08/09/91	09/09/91	09/09/91	09/09/91	07/03/91	07/02/91	09/15/91	09/15/91	09/14/91	09/18/91	09/13/91
Acetone	.	290	.	.	.	.	.	220	220	.	.	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	2	.	.	.	.	45	50	.	.	.	.	.
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
Ethylbenzene	.	.	.	.	.	.	.	.	.	.	.	.
2-Hexanone	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	20	.	10	10	10	.	.	.	.	.	.	.
Methylene chloride	50	.	260	260	260	30	.	.	.	40	60	100
Toluene	10	.	8	8	8	.	.	20	20	10	30	.
1,1,1-Trichloroethane	.	.	.	.	.	5	5	.	.	.	.	.
Vinyl acetate	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Third Quarter 1991

Well No.	GW-695	GW-703	GW-704	GW-705
Location	EXP	EXP	EXP	EXP
Date Sampled	09/13/91	09/11/91	09/12/91	09/11/91
Acetone	.	.	.	.
Bromodichloromethane	.	.	.	.
Carbon disulfide	.	.	.	.
Chloroform	.	.	.	.
1,2-Dichloropropane	.	.	5	.
Ethylbenzene	.	.	.	.
2-Hexanone	.	.	.	.
4-Methyl-2-pentanone	.	.	.	.
Methylene chloride	100	50	.	50
Toluene	.	9	10	9
1,1,1-Trichloroethane	.	.	.	.
Vinyl acetate	.	.	.	.
Xylenes	.	.	.	.

APPENDIX I
Blank Qualification Results, Fourth Quarter 1991

Well No.	GW-013	GW-040	GW-042	GW-043	GW-044	GW-053	GW-056	GW-058	GW-063	GW-064	GW-075	GW-080
Site	OLF	BG	BG	OLF	OLF	BG	BG	BG	OLF	OLF	OLF	BG
Date Sampled	10/17/91	11/12/91	11/04/91	10/15/91	10/14/91	12/22/91	12/11/91	12/17/91	10/23/91	10/23/91	10/25/91	11/06/91
Acetone	.	.	.	370	20	.	30	.	.	.	.	.
Bromodichloromethane	.	.	.	.	.	.	.	25	.	.	.	.
Bromoform	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	10	.	.	.	.	.	.
Carbon tetrachloride	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	15	.	5	10	10	.	15	190	5	5	5	.
1,2-Dichloropropane	.	.	.	.	.	5	35	.	.	.	.	.
Ethylbenzene	.	.	.	.	.	.	.	.	.	.	.	.
2-Hexanone	.	.	.	.	10	.	.	.	.	.	.	.
4-Methyl-2-pentanone	25	.	.	.	.	.	.	.	.	.	.	.
Methylene chloride	10	20	9	10	360	130	70	8	.	.	10	10
1,1,2,2-Tetrachloroethane	.	.	.	.	5	.	.	.	.	.	.	.
Toluene	30	.	10	6	.	.	.	.	9	9	10	10
1,1,2-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Fourth Quarter 1991

Well No.	GW-082	GW-083	GW-084	GW-085	GW-089	GW-115	GW-117	GW-118	GW-119	GW-123	GW-125	GW-225
Site	BG	BG	OLF	OLF	BG	S3	BG	BG	BG	S3	S3	OLF
Date Sampled	12/21/91	12/27/91	10/14/91	10/15/91	11/04/91	10/01/91	12/19/91	12/19/91	12/19/91	10/04/91	10/04/91	11/01/91
Acetone	.	.	20	370	.	90	.	.	.	.	.	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Bromoform	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Carbon tetrachloride	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	10	15	10	10	5	.	20	20	20	4	4	15
1,2-Dichloropropane	.	10	.	.	.	.	.	.	.	.	.	.
Ethylbenzene	.	.	.	.	.	.	.	.	.	.	.	.
2-Hexanone	5	5	10	.	.	10	.	.	.	.	.	.
4-Methyl-2-pentanone	10	.	.	.	.	20	.	.	.	.	.	.
Methylene chloride	.	90	360	10	9	8	.	.	.	40	40	10
1,1,2,2-Tetrachloroethane	.	.	5	.	.	.	.	.	.	.	.	.
Toluene	.	.	.	6	10	30	.	.	.	10	10	10
1,1,2-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	15	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Fourth Quarter 1991

Well No.	GW-227	GW-243	GW-287	GW-309	GW-313	GW-314	GW-315	GW-316	GW-317	GW-323	GW-342	GW-343
Site	OLF	S3	BG	RS	SPI	SPI	SPI	SPI	SPI	SPI	BG	BG
Date Sampled	11/01/91	10/11/91	11/23/91	10/23/91	10/05/91	10/05/91	10/05/91	10/05/91	10/03/91	10/03/91	11/05/91	11/07/91
Acetone	.	.	.	.	.	.	.	460	.	.	.	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Bromoform	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	10	.	.	.	.	.	.	.	.	.
Carbon tetrachloride	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	15	10	.	5	4	4	4	.	5	5	.	2
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
Ethylbenzene	.	.	.	.	.	.	.	.	.	.	.	.
2-Hexanone	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	.	.	.	.	.	.	.	.	.	.	.
Methylene chloride	10	180	70	.	150	150	150	70	540	540	10	20
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Toluene	.	.	.	9	10	10	10	10	7	7	20	20
1,1,2-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Fourth Quarter 1991

Well No.	GW-344	GW-364	GW-365	GW-366	GW-371	GW-372	GW-373	GW-520	GW-526	GW-537	GW-601	GW-613
Site	BG	OLF	OLF	OLF	BG	BG	BG	OLF	S3	OLF	OLF	S3
Date Sampled	11/07/91	10/28/91	10/29/91	10/25/91	11/14/91	11/02/91	11/02/91	10/24/91	10/06/91	10/23/91	10/31/91	10/01/91
Acetone	.	.	.	.	.	.	.	.	.	.	.	90
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Bromoform	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	.	.	.	.	.	.	.
Carbon tetrachloride	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	4	10	.	5	.	.	.	15	4	5	.	.
1,2-Dichloropropane	.	.	.	.	.	.	.	.	.	.	.	.
Ethylbenzene	.	.	.	.	.	.	.	.	.	.	.	.
2-Hexanone	.	.	.	.	.	.	.	.	.	.	.	10
4-Methyl-2-pentanone	.	15	.	.	.	.	.	.	.	.	.	20
Methylene chloride	20	30	10	10	30	10	10	20	20	.	20	8
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Toluene	20	20	20	10	.	10	.	10	20	9	.	30
1,1,2-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	.	.	.	.	.	.	.	15

(CONTINUED)

APPENDIX I
Blank Qualification Results, Fourth Quarter 1991

Well No.	GW-614	GW-615	GW-616	GW-623	GW-626	GW-627	GW-630	GW-637	GW-638	GW-639	GW-640	GW-642
Site	S3	S3	S3	BG	BG	BG	OLF	OLF	OLF	BG	BG	BG
Date Sampled	10/01/91	10/08/91	10/07/91	12/22/91	12/22/91	12/18/91	10/14/91	10/17/91	10/17/91	11/16/91	11/15/91	11/03/91
Acetone	90	50	130	.	.	.	20	.	.	.	.	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Bromoform	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	3	10	10	.	.	.	.	.	.	.
Carbon tetrachloride	.	.	.	.	.	4	.	.	.	.	.	.
Chloroform	.	10	3	.	.	225	10	15	15	.	.	.
1,2-Dichloropropane	.	.	.	5	5	.	.	.	.	.	.	.
Ethylbenzene	.	.	.	.	.	.	.	.	.	.	.	.
2-Hexanone	10	.	.	10	10	.	.	.	.	.	.	.
4-Methyl-2-pentanone	20	10	.	15	15	10	.	25	25	.	.	.
Methylene chloride	8	60	10	70	70	.	360	10	20	10	90	20
1,1,2,2-Tetrachloroethane	.	.	.	5	5	.	.	.	.	.	.	.
Toluene	30	.	.	.	.	.	.	30	30	.	.	10
1,1,2-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	15	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Fourth Quarter 1991

Well No.	GW-643	GW-644	GW-647	GW-648	GW-649	GW-651	GW-652	GW-653	GW-654	GW-655	GW-683	GW-685
Site	BG	OLF	OLF	RS	OLF	BG	BG	BG	BG	BG	EXP	EXP
Date Sampled	11/03/91	10/17/91	10/21/91	10/03/91	10/02/91	11/23/91	11/23/91	12/11/91	11/23/91	11/05/91	12/12/91	12/12/91
Acetone	.	.	.	.	250	.	.	30	.	.	90	.
Bromodichloromethane	.	.	.	.	.	.	.	.	.	.	.	.
Bromoform	.	.	.	.	.	.	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	.	10	10	.	10	.	.	.
Carbon tetrachloride	.	.	.	.	.	.	.	.	.	.	.	.
Chloroform	.	15	10	5	.	.	.	15	.	.	15	10
1,2-Dichloropropane	.	.	.	.	.	.	.	35	.	.	45	30
Ethylbenzene	.	.	.	.	3	.	.	.	.	.	.	.
2-Hexanone	.	.	.	.	.	.	.	.	.	.	.	.
4-Methyl-2-pentanone	.	25	.	.	15	.	.	.	.	.	.	.
Methylene chloride	20	10	1300	540	60	70	70	70	70	10	20	140
1,1,2,2-Tetrachloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Toluene	10	30	.	7	40	.	.	.	.	20	.	.
1,1,2-Trichloroethane	.	.	.	.	.	.	.	.	.	.	.	.
Xylenes	.	.	.	.	15	.	.	.	.	.	.	.

(CONTINUED)

APPENDIX I
Blank Qualification Results, Fourth Quarter 1991

Well No.	GW-694	GW-703	GW-704	GW-706	GW-710	GW-712
Site	EXP	EXP	EXP	EXP	EXP	EXP
Date Sampled	11/22/91	11/18/91	11/19/91	11/19/91	12/05/91	12/09/91
Acetone	110	.	110	.	.	.
Bromodichloromethane	.	.	.	.	.	.
Bromoform	.	.	.	.	.	.
Carbon disulfide	.	.	.	.	10	.
Carbon tetrachloride	.	.	.	.	.	.
Chloroform	.	.	.	.	.	10
1,2-Dichloropropane	5	.	5	.	.	.
Ethylbenzene	.	.	.	.	.	.
2-Hexanone	.	.	55	.	.	.
4-Methyl-2-pentanone	.	.	25	.	.	.
Methylene chloride	20	20	20	40	150	230
1,1,2,2-Tetrachloroethane	.	.	20	.	.	.
Toluene	.	.	.	.	.	.
1,1,2-Trichloroethane	.	.	5	.	.	.
Xylenes	.	.	.	.	.	.

VALIDATED VOC RESULTS

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APPENDIX I
Validated VOC Results
First Quarter 1991

Well No. . Location . Date Sampled	GW-053		GW-056		GW-063		GW-064		GW-071		GW-072	
	BG		BG		OLF		OLF		BG		BG	
	03/19/91		02/26/91		02/08/91		02/20/91		03/24/91		03/19/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	29	1.9	N	.
Benzene	G	.	G	.	G	.	G	.	130	8.3	G	.
Carbon tetrachloride	G	.	G	.	1	2.9	4	3.9	N	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	N	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	V	.	N	.
Chloroform	G	.	FP	.	0.8	2.3	FP	.	FP	.	G	.
1,1-Dichloroethane	9	22.5	G	.	G	.	G	.	430	27.5	9	100
1,1-Dichloroethene	G	.	G	.	G	.	G	.	14	0.9	G	.
1,2-Dichloroethene	20	50	G	.	G	.	9	8.7	43	2.7	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	V	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	N	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	400	25.5	G	.
Toluene	G	.	G	.	G	.	G	.	N	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	1	1	110	7	G	.
Trichloroethene	G	.	G	.	33	94.8	89	86.4	410	26.2	G	.
Vinyl chloride	11	27.5	N	.	N	.	N	.	V	.	N	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	40	100	0	.	34.8	100	103	100	1566	100	9	100

(CONTINUED)

APPENDIX I
Validated VOC Results
First Quarter 1991

Well No. . Location . Date Sampled	GW-074		GW-082		GW-089		GW-117		GW-119		GW-122	
	OLF		BG		BG		BG		BG		S3	
	01/30/91		03/09/91		03/05/91		03/25/91		03/25/91		01/12/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	11	52.4	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	7	33.3	3	10.7	5	71.4	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	72	100	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	FP	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	20	71.4	2	28.6	1	100
Toluene	0.7	100	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Trichloroethene	G	.	G	.	G	.	5	17.9	G	.	G	.
Vinyl chloride	N	.	N	.	3	14.3	N	.	N	.	N	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	0.7	100	72	100	21	100	28	100	7	100	1	100

(CONTINUED)

APPENDIX I
Validated VOC Results
First Quarter 1991

Well No. . Location . Date Sampled	GW-123		GW-125		GW-225		GW-226		GW-227		GW-243	
	S3		S3		OLF		OLF		OLF		S3	
	03/25/91		03/25/91		02/21/91		02/08/91		02/08/91		01/22/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	12	100	13	100	FP	.	N	.	N	.	600	9.9
Benzene	G	.	G	.	N	.	1	1.8	G	.	B	.
Carbon tetrachloride	G	.	G	.	8	1.9	G	.	G	.	B	.
Chlorobenzene	G	.	G	.	N	.	6	10.9	G	.	B	.
Chloroethane	N	.	N	.	V	.	4	7.3	N	.	T	.
Chloroform	FP	.	FP	.	4	0.9	G	.	G	.	38	0.6
1,1-Dichloroethane	G	.	G	.	N	.	G	.	G	.	B	.
1,1-Dichloroethene	G	.	G	.	5	1.2	2	3.6	G	.	B	.
1,2-Dichloroethene	G	.	G	.	N	.	36	65.5	G	.	B	.
4-Methyl-2-pentanone	N	.	N	.	V	.	N	.	N	.	T	.
Methylene chloride	G	.	G	.	N	.	G	.	G	.	200	3.3
Tetrachloroethene	G	.	G	.	6	1.4	G	.	G	.	5200	85.8
Toluene	G	.	G	.	N	.	G	.	G	.	B	.
1,1,1-Trichloroethane	G	.	G	.	3	0.7	G	.	G	.	25	0.4
Trichloroethene	G	.	G	.	400	93.9	6	10.9	9	100	B	.
Vinyl chloride	N	.	N	.	V	.	N	.	N	.	T	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	12	100	13	100	426	100	55	100	9	100	6063	100

(CONTINUED)

APPENDIX I
Validated VOC Results
First Quarter 1991

Well No. . Location . Date Sampled	GW-291		GW-306		GW-307		GW-308		GW-309		GW-310	
	BG		RS		RS		RS		RS		RS	
	03/24/91		01/14/91		01/14/91		01/14/91		01/13/91		01/15/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	A	.	N	.	N	.	N	.	N	.	N	.
Benzene	V	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	V	.	2	2.3	G	.	4	6.3	G	.	G	.
Chlorobenzene	V	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	A	.	N	.	N	.	N	.	N	.	N	.
Chloroform	FP	.	FP	.	FP	.	FP	.	G	.	G	.
1,1-Dichloroethane	V	.	G	.	4	9.1	2	3.1	G	.	G	.
1,1-Dichloroethene	V	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	V	.	9	10.5	G	.	G	.	8	44.4	20	26.7
4-Methyl-2-pentanone	A	.	8	9.3	N	.	N	.	N	.	N	.
Methylene chloride	V	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	640	90	G	.	1	2.3	1	1.6	G	.	3	4
Toluene	V	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	V	.	2	2.3	2	4.5	3	4.7	G	.	G	.
Trichloroethene	71	10	65	75.6	37	84.1	54	84.4	10	55.6	52	69.3
Vinyl chloride	A	.	N	.	N	.	N	.	N	.	N	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	711	100	86	100	44	100	64	100.1	18	100	75	100

(CONTINUED)

APPENDIX I
Validated VOC Results
First Quarter 1991

Well No. . Location . Date Sampled	GW-311		GW-312		GW-313		GW-314		GW-315		GW-316	
	RS		RS		SPI		SPI		SPI		SPI	
	01/13/91		01/14/91		01/09/91		01/08/91		01/08/91		01/08/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	3	9.1	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	FP	.	FP	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	120	82.2	140	81.4	32	37.6	G	.
4-Methyl-2-pentanone	FP	.	5	5.9	N	.	N	.	N	.	4	100
Methylene chloride	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	18	12.3	24	14	38	44.7	G	.
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Trichloroethene	30	90.9	80	94.1	8	5.5	8	4.7	15	17.6	G	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	33	100	85	100	146	100	172	100.1	85	99.9	4	100

(CONTINUED)

APPENDIX I
Validated VOC Results
First Quarter 1991

Well No. . Location . Date Sampled	GW-343		GW-364		GW-365		GW-367		GW-369		GW-372	
	BG		OLF		OLF		OLF		OLF		BG	
	03/07/91		02/07/91		02/09/91		02/02/91		02/10/91		02/22/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	FP	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	1	1.8	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	FP	.	G	.	G	.	G	.	0.8	1.4	FP	.
1,1-Dichloroethane	G	.	5	12.8	5	5.5	G	.	G	.	G	.
1,1-Dichloroethene	G	.	5	12.8	12	13.2	G	.	G	.	G	.
1,2-Dichloroethene	G	.	12	30.8	52	57.1	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Toluene	G	.	FP	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	2	5.1	6	6.6	G	.	G	.	G	.
Trichloroethene	G	.	15	38.5	16	17.6	19	100	54	96.8	G	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	0	.	39	100	91	100	19	100	55.8	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
First Quarter 1991

Well No. . Location . Date Sampled	GW-373		GW-520		GW-534		GW-537		GW-601		GW-615	
	BG		OLF		OLF		OLF		OLF		S3	
	02/22/91		03/25/91		03/26/91		03/26/91		01/25/91		01/11/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	FP	.	15	100	N	.	N	.	N	.	190	97.9
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	4	2.3	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	FP	.	FP	.	FP	.	FP	.	FP	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	2	1.1	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.	4	2.1
Tetrachloroethene	G	.	G	.	G	.	G	.	1	0.6	G	.
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	0.7	0.4	G	.
Trichloroethene	G	.	G	.	G	.	G	.	170	95.7	G	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	0	.	15	100	0	.	0	.	177.7	100.1	194	100

(CONTINUED)

APPENDIX I
Validated VOC Results
First Quarter 1991

Well No. . Location . Date Sampled	GW-623		GW-624		GW-626		GW-627		GW-629		GW-630	
	BG		BG		BG		BG		BG		OLF	
	03/24/91		03/24/91		03/23/91		03/24/91		03/26/91		03/26/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	W	.	V	.	N	.	N	.	N	.	FP	.
Benzene	T	.	N	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	T	.	N	.	G	.	G	.	G	.	G	.
Chlorobenzene	T	.	N	.	G	.	G	.	G	.	G	.
Chloroethane	W	.	V	.	N	.	N	.	N	.	N	.
Chloroform	38	0.3	FP	.	G	.	FP	.	G	.	FP	.
1,1-Dichloroethane	870	5.9	22	4.1	6	5.9	G	.	6	6.8	G	.
1,1-Dichloroethene	T	.	6	1.1	4	4	G	.	G	.	G	.
1,2-Dichloroethene	T	.	330	62	70	69.3	G	.	G	.	G	.
4-Methyl-2-pentanone	W	.	V	.	N	.	N	.	N	.	N	.
Methylene chloride	T	.	N	.	G	.	G	.	G	.	G	.
Tetrachloroethene	8400	56.7	71	13.3	8	7.9	G	100	75	85.2	G	.
Toluene	T	.	N	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	110	0.7	6	1.1	2	2	G	.	G	.	G	.
Trichloroethene	5400	36.4	68	12.8	11	10.9	G	.	7	8	G	.
Vinyl chloride	W	.	29	5.5	N	.	N	.	N	.	N	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	14818	100	532	99.9	101	100	6	100	88	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
First Quarter 1991

Well No. . Location . Date Sampled	GW-637		GW-638		GW-645		GW-647		GW-653	
	OLF		OLF		OLF		OLF		BG	
	02/12/91		02/12/91		02/12/91		02/01/91		03/23/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.
Chloroform	FP	.	FP	.	FP	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	13	76.5
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	4	23.5
Toluene	G	.	G	.	G	.	FP	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.
Trichloroethene	G	.	G	.	G	.	G	.	G	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.
	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	0	.	0	.	0	.	0	.	17	100

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. . Location . Date Sampled	GW-018		GW-037		GW-042		GW-053		GW-054		GW-056	
	BG		BG		BG		BG		BG		BG	
	06/20/91		06/14/91		06/11/91		06/19/91		05/31/91		05/24/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	21	38.9	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	11	20.4	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	FP	.	FP	.	G	.	FP	.	G	.	FP	.
Tetrachloroethene	G	.	G	.	G	.	G	.	0.5	41.7	G	.
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	10	100	1	1.9	0.7	58.3	G	.
Trichloroethene	G	.	G	.	G	.	4	7.4	G	.	G	.
Vinyl chloride	N	.	N	.	N	.	17	31.5	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	0	.	10	100	54	100.1	1.2	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. Location Date Sampled	GW-057		GW-058		GW-061		GW-063		GW-064		GW-069	
	EG		BG		BG		OLF		OLF		BG	
	06/19/91		06/20/91		06/19/91		05/12/91		05/17/91		06/17/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	3	3.3	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	FP	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	6	6.5	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	FP	.	FP	.	FP	.	G	.	FP	.	FP	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	0.9	1	G	.
Trichloroethene	G	.	G	.	G	.	21	100	82	89.2	G	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	0	.	0	.	21	100	91.9	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. . Location . Date Sampled	GW-071		GW-072		GW-080		GW-082		GW-089		GW-095	
	BG		BG		BG		BG		BG		BG	
	06/21/91		06/18/91		05/24/91		06/11/91		06/11/91		06/18/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	M	.	N	.	N	.	N	.	N	.	N	.
Benzene	420	16.2	G	.	G	.	G	.	G	.	G	.
Bromoform	Z	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	Z	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	Z	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	M	.	N	.	N	.	N	.	6	46.2	N	.
Chloroform	Z	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	820	31.6	19	86.4	G	.	G	.	5	38.5	G	.
1,2-Dichloroethane	Z	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	16	0.6	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	42	1.6	G	.	G	.	51	100	G	.	G	.
Ethylbenzene	Z	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	M	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	Z	.	3	13.6	FP	.	G	.	G	.	FP	.
Tetrachloroethene	480	18.5	G	.	G	.	G	.	G	.	G	.
Toluene	Z	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	330	12.7	FP	.	G	.	G	.	G	.	G	.
Trichloroethene	490	18.9	G	.	G	.	G	.	G	.	G	.
Vinyl chloride	M	.	N	.	N	.	N	.	2	15.4	N	.
Xylenes	Z	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	2598	100.1	22	100	0	.	51	100	13	100.1	0	.

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APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. . Location . Date Sampled	GW-117		GW-118		GW-119		GW-163		GW-164		GW-225	
	BG		BG		BG		BG		BG		OLF	
	06/17/91		06/17/91		06/17/91		06/12/91		06/13/91		05/17/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	V	.
Benzene	G	.	G	.	G	.	G	.	G	.	N	.
Bromoform	G	.	G	.	G	.	G	.	G	.	N	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	7	1.9
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	N	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	V	.
Chloroform	G	.	G	.	G	.	G	.	G	.	FP	.
1,1-Dichloroethane	2	10	G	.	5	71.4	G	.	G	.	N	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	N	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	5	1.4
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	N	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	N	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	V	.
Methylene chloride	FP	.	FP	.	FP	.	G	.	FP	.	FP	.
Tetrachloroethene	14	70	G	.	2	28.6	G	.	G	.	5	1.4
Toluene	G	.	G	.	G	.	G	.	G	.	N	.
1,1,1-Trichloroethane	G	.	G	.	G	.	FP	.	G	.	3	0.8
Trichloroethene	4	20	G	.	G	.	G	.	G	.	350	94.6
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	V	.
Xylenes	G	.	G	.	G	.	G	.	G	.	N	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	20	100	0	.	7	100	0	.	0	.	370	100.1

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APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. . Location . Date Sampled	GW-226		GW-227		GW-290		GW-291		GW-306		GW-307	
	OLF		OLF		BG		BG		RS		RS	
	05/13/91		05/12/91		06/20/91		06/21/91		04/26/91		04/26/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	0.4	0.9	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	1	1.2	4	5.1
Chlorobenzene	8	18	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	FP	.	FP	.
1,1-Dichloroethane	3	6.8	G	.	G	.	G	.	G	.	3	3.8
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	1	2.3	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	29	65.3	G	.	G	.	11	1.5	8	9.8	16	20.3
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	600	82.9	G	.	G	.
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	FP	.	3	0.4	2	2.4	2	2.5
Trichloroethene	3	6.8	9	100	G	.	110	15.2	71	86.6	54	68.4
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	44.4	100.1	9	100	0	.	724	100	82	100	79	100.1

(CONTINUED)

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No.	GW-308		GW-309		GW-310		GW-311		GW-312		GW-313	
	RS		RS		RS		RS		RS		SPT	
	04/30/91		04/25/91		04/30/91		04/26/91		04/26/91		04/09/91	
Location	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Date Sampled												
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	1	1.9	G	.	N	.	3	9.7	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	FP	.	G	.	G	.	1	3.2	FP	.	G	.
1,1-Dichloroethane	2	3.7	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	11	20.5	8	40	34	40	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	0.7	1.3	1	5	3	3.5	G	.	G	.	G	.
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	2	3.7	G	.	G	.	G	.	G	.	G	.
Trichloroethene	37	68.9	11	55	48	56.5	27	87.1	61	100	1	16.7
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
SUMMED VOCs	53.7	100	20	100	85	100	31	100	61	100	€	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. . Location . Date Sampled	GW-314		GW-315		GW-342		GW-343		GW-364		GW-365	
	SPI		SPI		BG		BG		OLF		OLF	
	04/08/91		04/08/91		06/13/91		06/14/91		05/12/91		05/14/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	5	13.5	4	4.5
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	5	13.5	11	12.4
1,2-Dichloroethene	16	34.8	12	32.4	G	.	G	.	10	27	42	47.2
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	FP	.	FP	.	G	.	G	.
Tetrachloroethene	22	47.8	19	51.4	G	.	G	.	G	.	1	1.1
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	2	5.4	5	5.6
Trichloroethene	8	17.4	6	16.2	G	.	G	.	15	40.5	26	29.2
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	46	100	37	100	0	.	0	.	37	99.9	89	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. Location Date Sampled	GW-367		GW-369		GW-370		GW-372		GW-373		GW-533	
	OLF		OLF		BG		BG		BG		OLF	
	05/11/91		05/15/91		06/10/91		05/23/91		05/23/91		06/25/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	1	5.6	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	FP	.	FP	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	FP	.	G	.	G	.	FP	.
Trichloroethene	17	94.4	32	100	G	.	G	.	G	.	G	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	18	100	32	100	0	.	0	.	0	.	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. . Location . Date Sampled	GW-534		GW-537		GW-538		GW-601		GW-615		GW-621	
	OLF		OLF		OLF		OLF		S3		BG	
	06/25/91		06/25/91		06/25/91		05/04/91		04/10/91		06/20/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	130	100	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	4	2.6	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	FP	.	FP	.	FP	.	G	.	FP	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	FP	.
Trichloroethene	G	.	G	.	G	.	150	97.4	G	.	G	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	0	.	0	.	154	100	130	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. . Location . Date Sampled	GW-622		GW-623		GW-624		GW-626		GW-627		GW-629	
	BG		BG		BG		BG		BG		BG	
	06/20/91		06/21/91		06/21/91		06/20/91		06/22/91		06/22/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	130	0.6	N	.	FP	.	N	.	N	.
Benzene	G	.	7	0	4	0.3	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	33	0.2	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	FP	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	3200	15.4	50	3.6	3	6	2	10	8	6.1
1,2-Dichloroethane	G	.	8	0	4	0.3	0.8	1.6	G	.	G	.
1,1-Dichloroethene	G	.	660	3.2	18	1.3	2	4	G	.	1	0.8
1,2-Dichloroethene	G	.	580	2.8	800	58.4	32	64.3	G	.	G	.
Ethylbenzene	G	.	33	0.2	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	4	0	N	.	N	.	N	.	N	.
Methylene chloride	FP	.	61	0.3	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	8400	40.5	140	10.2	5	10	16	80	110	84
Toluene	G	.	10	0	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	610	2.9	15	1.1	FP	.	G	.	G	.
Trichloroethene	G	.	6700	32.3	160	11.7	7	14.1	2	10	12	9.2
Vinyl chloride	N	.	150	0.7	180	13.1	N	.	N	.	N	.
Xylenes	G	.	130	0.6	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	0	.	20716	99.7	1371	100	49.8	100	20	100	131	100.1

(CONTINUED)

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. . Location . Date Sampled	GW-630		GW-637		GW-638		GW-642		GW-645		GW-653	
	OLF		OLF		OLF		BG		OLF		BG	
	06/25/91		05/17/91		05/17/91		06/15/91		05/17/91		06/21/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	9	81.8
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	FP	.	FP	.	FP	.	G	.	FP	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	2	18.2
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	FP	.	G	.	G	.
Trichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	0	.	0	.	0	.	0	.	11	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. Location Date Sampled	GW-654		GW-655		GW-683		GW-684		GW-685		GW-694	
	BG		BG		EXP		EXP		EXP		EXP	
	06/15/91		06/15/91		05/24/91		05/30/91		06/01/91		06/19/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	180	100
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	3	73.2	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	FP	.	G	.	G	.	FP	.
Tetrachloroethene	G	.	G	.	G	.	G	.	0.5	12.2	G	.
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	FP	.	FP	.	G	.	G	.	G	.	G	.
Trichloroethene	G	.	G	.	G	.	0.7	100	0.6	14.6	G	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	0	.	0	.	0.7	100	4.1	100	180	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Second Quarter 1991

Well No. . Location . Date Sampled	GW-695		GW-703		GW-704		GW-705		GW-706	
	EXP		EXP		EXP		EXP		EXP	
	06/18/91		06/18/91		06/20/91		06/20/91		06/20/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	42	93.3	N	.	N	.	N	.	FP	.
Benzene	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	2	2.3	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	5	5.8	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.
Methylene chloride	FP	.	FP	.	FP	.	FP	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.
Toluene	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	FP	.	G	.	FP	.
Trichloroethene	3	6.7	25	100	79	91.9	G	.	3	100
Vinyl chloride	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	45	100	25	100	86	100	0	.	3	100

APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No.	GW-042		GW-044		GW-053		GW-054		GW-056		GW-058	
Location	BG		OLF		BG		BG		BG		BG	
Date Sampled	09/05/91		08/09/91		09/26/91		09/15/91		09/15/91		09/20/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	FP	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	0.8	1.1	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	3	4	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	14	18.5	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	1	1.3	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	0.8	1.1	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	30	39.7	G	.	2	100	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	FP	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	FP	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	FP	.	G	.	G	.	G	.
Toluene	G	.	G	.	FP	.	FP	.	FP	.	FP	.
1,1,1-Trichloroethane	4	100	G	.	0.9	1.2	G	.	G	.	G	.
Trichloroethene	G	.	G	.	FP	.	G	.	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	25	33.1	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	4	100	0	.	75.5	100	0	.	2	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No. . Location . Date Sampled	GW-061		GW-063		GW-064		GW-080		GW-082		GW-083	
	BG		OLF		OLF		BG		BG		BG	
	09/26/91		08/13/91		08/14/91		09/07/91		09/25/91		09/14/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	2	4.9	4	3.2	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	1	2.4	FP	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	9	7.3	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	FP	.	N	.	N	.	1	100	FP	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Toluene	FP	.	G	.	G	.	G	.	FP	.	FP	.
1,1,1-Trichloroethane	G	.	G	.	1	0.8	G	.	0.4	100	G	.
Trichloroethene	FP	.	38	92.7	110	88.7	G	.	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	41	100	124	100	1	100	0.4	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No. . Location . Date Sampled	GW-084		GW-089		GW-095		GW-115		GW-117		GW-118	
	OLF		BG		BG		S3		BG		BG	
	08/09/91		09/07/91		09/23/91		07/01/91		09/23/91		09/23/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	25	100	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	0.7	21.2
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	11	47.8	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	9	39.1	G	.	G	.	1	5.3	0.6	18.2
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	2	10.5	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	FP	.
Methylene chloride	0.5	100	G	.	G	.	G	.	FP	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	12	63.2	G	.
Toluene	G	.	G	.	FP	.	G	.	FP	.	FP	.
1,1,1-Trichloroethane	G	.	G	.	G	.	FP	.	G	.	G	.
Trichloroethene	G	.	G	.	G	.	G	.	4	21.1	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	2	60.6
Vinyl chloride	N	.	3	13	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0.5	100	23	99.9	0	.	25	100	19	100.1	3.3	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No. . Location . Date Sampled	GW-119		GW-123		GW-125		GW-225		GW-227		GW-243	
	BG		S3		S3		OLF		OLF		S3	
	09/23/91		07/12/91		07/12/91		08/31/91		08/31/91		08/06/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	V	.	N	.	W	.
Benzene	G	.	0.5	35.7	G	.	N	.	G	.	T	.
Carbon tetrachloride	G	.	G	.	G	.	2	0.6	G	.	T	.
Chlorobenzene	G	.	G	.	G	.	N	.	G	.	T	.
Chloroethane	N	.	N	.	N	.	V	.	N	.	W	.
Chloroform	G	.	G	.	G	.	FP	.	G	.	33	0.5
1,1-Dichloroethane	6	60	G	.	G	.	N	.	G	.	T	.
1,2-Dichloroethane	G	.	G	.	G	.	N	.	G	.	T	.
1,1-Dichloroethene	G	.	G	.	G	.	4	1.3	G	.	T	.
1,2-Dichloroethene	G	.	G	.	G	.	N	.	G	.	T	.
Ethylbenzene	G	.	G	.	G	.	N	.	G	.	T	.
4-Methyl-2-pentanone	FP	.	N	.	N	.	V	.	N	.	W	.
Methylene chloride	G	.	G	.	FP	.	N	.	G	.	270	4.4
Tetrachloroethene	3	30	G	.	G	.	5	1.6	G	.	5900	95.1
Toluene	FP	.	0.9	64.3	G	.	N	.	G	.	T	.
1,1,1-Trichloroethane	G	.	G	.	G	.	2	0.6	G	.	T	.
Trichloroethene	1	10	G	.	G	.	300	95.8	6	100	T	.
Vinyl acetate	N	.	N	.	N	.	V	.	N	.	W	.
Vinyl chloride	N	.	N	.	N	.	V	.	N	.	W	.
Xylenes	G	.	G	.	G	.	N	.	G	.	T	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	10	100	1.4	100	0	.	313	99.9	6	100	6203	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No. Location Date Sampled	GW-309		GW-313		GW-314		GW-315		GW-316		GW-323	
	RS		SPI		SPI		SPI		SPI		SPI	
	08/13/91		07/18/91		07/20/91		07/20/91		07/18/91		07/03/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	22	100	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	9	40.9	5	27.8	4	26.7	14	32.6	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	FP	.	FP	.	G	.	G	.
Tetrachloroethene	2	9.1	9	50	8	53.3	20	46.5	G	.	G	.
Toluene	G	.	FP	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	FP	.
Trichloroethene	11	50	4	22.2	3	20	9	20.9	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	22	100	18	100	15	100	43	100	22	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No. . Location . Date Sampled	GW-344		GW-347		GW-348		GW-364		GW-365		GW-366	
	BG		S3		S3		OLF		OLF		OLF	
	09/08/91		07/02/91		07/02/91		08/28/91		08/28/91		08/27/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	3	10.7	5	3.9	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	3	10.7	16	12.6	G	.
1,2-Dichloroethene	G	.	G	.	G	.	8	28.6	50	39.4	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	FP	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	2	1.6	G	.
Toluene	FP	.	G	.	G	.	G	.	FP	.	G	.
1,1,1-Trichloroethane	G	.	FP	.	FP	.	2	7.1	7	5.5	G	.
Trichloroethene	G	.	G	.	0.5	100	12	42.9	44	34.6	0.5	100
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	3	2.4	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	0	.	0.5	100	28	100	127	100	0.5	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No. . Location . Date Sampled	GW-370		GW-373		GW-520		GW-526		GW-601		GW-613	
	BG		BG		OLF		S3		OLF		S3	
	09/09/91		09/04/91		08/27/91		08/02/91		08/30/91		07/01/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	19	100	N	.	N	.	15	7.8	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	3	1.6	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	FP	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	1	0.5	G	.
1,2-Dichloroethene	G	.	G	.	G	.	1	14.3	1	0.5	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	FP	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	FP	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	1	0.5	G	.
Toluene	FP	.	G	.	FP	.	G	.	FP	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	0.7	0.4	FP	.
Trichloroethene	G	.	G	.	0.6	100	6	85.7	170	88.7	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	FP	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	19	100	0.6	100	7	100	191.7	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No.	GW-614		GW-615		GW-616		GW-622		GW-623		GW-626	
Location	S3		S3		S3		BG		BG		BG	
Date Sampled	07/02/91		08/05/91		07/27/91		09/25/91		09/26/91		09/26/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	73	94.8	N	.	N	.	P	.	N	.
Benzene	G	.	G	.	G	.	G	.	L	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	L	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	L	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	P	.	N	.
Chloroform	G	.	G	.	G	.	G	.	L	.	FP	.
1,1-Dichloroethane	G	.	G	.	G	.	1	50	1900	4.4	11	7.1
1,2-Dichloroethane	G	.	G	.	G	.	G	.	L	.	2	1.3
1,1-Dichloroethene	G	.	G	.	G	.	G	.	210	0.5	6	3.9
1,2-Dichloroethene	G	.	G	.	G	.	G	.	L	.	110	71
Ethylbenzene	G	.	G	.	G	.	G	.	L	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	FP	.	P	.	FP	.
Methylene chloride	G	.	4	5.2	FP	.	G	.	L	.	FP	.
Tetrachloroethene	G	.	G	.	G	.	G	.	25000	58.1	FP	.
Toluene	G	.	G	.	G	.	FP	.	670	1.6	FP	.
1,1,1-Trichloroethane	FP	.	G	.	G	.	1	50	220	0.5	5	3.2
Trichloroethene	G	.	G	.	G	.	G	.	15000	34.9	21	13.5
Vinyl acetate	N	.	N	.	N	.	N	.	P	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	P	.	N	.
Xylenes	G	.	G	.	G	.	G	.	L	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	0	.	77	100	0	.	2	100	43000	100	155	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No. . Location . Date Sampled	GW-627		GW-630		GW-639		GW-640		GW-641		GW-648	
	BG		OLF		BG		BG		BG		RS	
	09/25/91		08/09/91		09/09/91		09/09/91		09/09/91		07/03/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	FP	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	2	100	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	FP	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	FP	.	G	.	G	.	G	.	G	.	G	.
Toluene	FP	.	G	.	FP	.	FP	.	FP	.	.	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	FP	.
Trichloroethene	FP	.	1	100	G	.	G	.	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	2	100	1	100	0	.	0	.	0	.	0	.

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APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No. . Location . Date Sampled	GW-649		GW-651		GW-653		GW-654		GW-685		GW-694	
	OLF		BG		BG		BG		EXP		EXP	
	07/02/91		09/15/91		09/15/91		09/14/91		09/18/91		09/13/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	0.9	1
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	0.9	1
Chlorobenzene	G	.	G	.	G	.	G	.	G	.	1	1.1
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	1	1.1
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	4	4.4
1,2-Dichloroethene	G	.	G	.	8	68.4	G	.	3	83.3	38	41.9
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	3	25.6	G	.	G	.	2	2.2
Toluene	G	.	FP	.	FP	.	FP	.	FP	.	G	.
1,1,1-Trichloroethane	FP	.	G	.	G	.	G	.	G	.	2	2.2
Trichloroethene	G	.	G	.	0.7	6	G	.	0.6	16.7	41	45.2
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	0	.	11.7	100	0	.	3.6	100	90.8	100.1

(CONTINUED)

APPENDIX I
Validated VOC Results
Third Quarter 1991

Well No. . Location . Date Sampled	GW-695		GW-703		GW-704		GW-705	
	EXP		EXP		EXP		EXP	
	09/13/91		09/11/91		09/12/91		09/11/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	0.7	1	G	.
Chlorobenzene	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	0.4	0.5	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	4	5.5	G	.
1,2-Dichloroethene	G	.	G	.	2	2.7	G	.
Ethylbenzene	G	.	G	.	G	.	G	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.
Toluene	G	.	FP	.	FP	.	FP	.
1,1,1-Trichloroethane	G	.	G	.	1	1.4	G	.
Trichloroethene	2	100	23	100	65	88.9	G	.
Vinyl acetate	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.
SUMMED VOCS	2	100	23	100	73.1	100	0	.

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-013		GW-040		GW-042		GW-043		GW-044		GW-053	
	OLF		BG		BG		OLF		OLF		BG	
	10/17/91		11/12/91		11/04/91		10/15/91		10/14/91		12/22/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	FP	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	1	2.6
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	10	25.6
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	1	2.6
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	21	53.8
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	3	100	N	.
Methylene chloride	G	.	FP	.	G	.	G	.	FP	.	FP	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	FP	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	FP	.
Toluene	FP	.	0.4	100	FP	.	FP	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	0.9	100	G	.	G	.	G	.
Trichloroethene	G	.	G	.	G	.	G	.	G	.	FP	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	6	15.4
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	0.4	100	0.9	100	0	.	3	100	39	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-056		GW-058		GW-063		GW-064		GW-075		GW-080	
	BG		BG		OLF		OLF		OLF		BG	
	12/11/91		12/17/91		10/23/91		10/23/91		10/25/91		11/06/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	3	2.4	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	FP	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	2	76.9	G	.	G	.	12	9.4	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	FP	.	G	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	1	0.8	G	.	G	.
Toluene	G	.	G	.	FP	.	1	0.8	G	.	FP	.
1,1,1-Trichloroethane	G	.	G	.	G	.	1	0.8	G	.	G	.
Trichloroethene	0.6	23.1	FP	.	22	100	110	86.6	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	2.6	100	0	.	22	100	127	100.8	0	.	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-082		GW-083		GW-084		GW-085		GW-089		GW-115	
	BG		BG		OLF		OLF		BG		S3	
	12/21/91		12/27/91		10/14/91		10/15/91		11/04/91		10/01/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	0.7	2	G	.
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	19	53.2	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	13	36.4	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	27	77.1	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	N	.	3	100	N	.	N	.	FP	.
Methylene chloride	G	.	FP	.	FP	.	FP	.	G	.	G	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Toluene	G	.	G	.	G	.	FP	.	FP	.	FP	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Trichloroethene	2	5.7	G	.	G	.	G	.	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	5	14.3	N	.	N	.	N	.	3	8.4	N	.
Xylenes	1	2.9	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	35	100	0	.	3	100	0	.	35.7	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-117		GW-118		GW-119		GW-123		GW-125		GW-225	
	BG		BG		BG		S3		S3		OLF	
	12/19/91		12/19/91		12/19/91		10/04/91		10/04/91		11/01/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	13	56.5	N	.	N	.	33	97.6	M	.
Benzene	G	.	2	8.7	G	.	0.5	100	0.8	2.4	D	.
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	D	.
Bromoform	G	.	G	.	G	.	G	.	G	.	D	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	7	1.8
Chloroethane	N	.	N	.	N	.	N	.	N	.	M	.
Chloroform	G	.	G	.	G	.	G	.	G	.	D	.
1,1-Dichloroethane	1	7.7	G	.	5	71.4	G	.	G	.	D	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	D	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	3	0.8
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	D	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	D	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	M	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	M	.
Methylene chloride	G	.	G	.	G	.	G	.	G	.	D	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	G	.	D	.
Tetrachloroethene	9	69.2	G	.	2	28.6	G	.	G	.	2	0.5
Toluene	G	.	2	8.7	G	.	FP	.	FP	.	FP	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	2	0.5
Trichloroethene	3	23.1	G	.	G	.	G	.	G	.	370	96.4
Vinyl acetate	N	.	6	26.1	N	.	N	.	N	.	M	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	M	.
Xylenes	G	.	G	.	G	.	G	.	G	.	D	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	13	100	23	100	7	100	0.5	100	33.8	100	384	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-227		GW-243		GW-287		GW-309		GW-313		GW-314	
	OLF		S3		BG		RS		SPI		SPI	
	11/01/91		10/11/91		11/23/91		10/23/91		10/05/91		10/05/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	1300	14.9	N	.	N	.	N	.	N	.
Benzene	G	.	T	.	G	.	G	.	G	.	G	.
Bromodichloromethane	G	.	T	.	G	.	G	.	G	.	G	.
Bromoform	G	.	T	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	T	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	W	.	N	.	N	.	N	.	N	.
Chloroform	G	.	T	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	T	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	T	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	T	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	T	.	G	.	6	40	10	33.3	3	27.3
Ethylbenzene	G	.	T	.	G	.	G	.	G	.	G	.
2-Hexanone	N	.	W	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	W	.	N	.	N	.	N	.	N	.
Methylene chloride	FP	.	310	3.5	FP	.	FP	.	G	.	G	.
1,1,2,2-Tetrachloroethane	G	.	T	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	7100	81.2	G	.	2	13.3	13	43.3	6	54.5
Toluene	G	.	35	0.4	G	.	FP	.	FP	.	FP	.
1,1,1-Trichloroethane	G	.	T	.	G	.	G	.	G	.	G	.
Trichloroethene	7	100	T	.	G	.	7	46.7	7	23.3	2	18.2
Vinyl acetate	N	.	W	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	W	.	N	.	N	.	N	.	N	.
Xylenes	G	.	T	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	7	100	8745	100	0	.	15	100	30	99.9	11	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-315		GW-316		GW-317		GW-323		GW-342		GW-343	
	SPI		SPI		SPI		SPI		BG		BG	
	10/05/91		10/05/91		10/03/91		10/03/91		11/05/91		11/07/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	12	33.3	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	G	.	FP	.	G	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	18	50	G	.	G	.	G	.	G	.	G	.
Toluene	FP	.	FP	.	FP	.	FP	.	FP	.	FP	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Trichloroethene	6	16.7	G	.	G	.	G	.	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	36	100	0	.	0	.	0	.	0	.	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-344		GW-364		GW-365		GW-366		GW-371		GW-372	
	BG		OLF		OLF		OLF		BG		BG	
	11/07/91		10/28/91		10/29/91		10/25/91		11/14/91		11/02/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	5	13.5	5	4.9	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	5	13.5	13	12.6	G	.	G	.	G	.
1,2-Dichloroethene	G	.	12	32.4	51	49.5	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	FP	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	G	.	G	.	FP	.	FP	.	G	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	1	1	G	.	G	.	G	.
Toluene	FP	.	FP	.	FP	.	G	.	G	.	FP	.
1,1,1-Trichloroethane	G	.	2	5.4	4	3.9	G	.	G	.	G	.
Trichloroethene	G	.	13	35.1	27	26.2	0.8	100	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	2	1.9	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	37	99.9	103	100	0.8	100	0	.	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-373		GW-520		GW-526		GW-537		GW-601		GW-613	
	BG		OLF		S3		OLF		OLF		S3	
	11/02/91		10/24/91		10/06/91		10/23/91		10/31/91		10/01/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	5	3	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	0.7	0.4	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	N	.	N	.	N	.	N	.	FP	.
Methylene chloride	FP	.	FP	.	G	.	G	.	FP	.	G	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Toluene	G	.	G	.	FP	.	FP	.	G	.	FP	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	0.9	0.5	G	.
Trichloroethene	G	.	G	.	G	.	G	.	160	96	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	0	.	0	.	0	.	0	.	166.6	99.9	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-614		GW-615		GW-616		GW-623		GW-626		GW-627	
	S3		S3		S3		BG		BG		BG	
	10/01/91		10/08/91		10/07/91		12/22/91		12/22/91		12/18/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	89	100	N	.	N	.	74	2.7	N	.
Benzene	G	.	G	.	G	.	G	.	3	0.1	G	.
Bromodichloromethane	G	.	G	.	G	.	G	.	2	0.1	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	50	1.8	G	.
Chloroethane	N	.	N	.	N	.	1	2.3	10	0.4	N	.
Chloroform	G	.	G	.	G	.	G	.	FP	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	11	25	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	3	0.1	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	340	12.2	G	.
1,2-Dichloroethene	G	.	G	.	G	.	21	47.7	280	10	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	13	0.5	G	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	FP	.	N	.	N	.	N	.	N	.	N	.
Methylene chloride	G	.	FP	.	FP	.	FP	.	FP	.	G	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	FP	.	730	26.2	FP	.
Toluene	FP	.	G	.	G	.	G	.	4	0.1	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	290	10.4	G	.
Trichloroethene	G	.	G	.	G	.	FP	.	890	31.9	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	11	25	47	1.7	N	.
Xylenes	G	.	G	.	G	.	G	.	51	1.8	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCs	0	.	89	100	0	.	44	100	2787	100	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. Location Date Sampled	GW-630		GW-637		GW-638		GW-639		GW-640		GW-642	
	OLF		OLF		OLF		BG		BG		BG	
	10/14/91		10/17/91		10/17/91		11/16/91		11/15/91		11/03/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	FP	.	FP	.	N	.	N	.	N	.
Methylene chloride	FP	.	G	.	G	.	FP	.	FP	.	FP	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Toluene	G	.	FP	.	FP	.	G	.	G	.	FP	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Trichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	0	.	0	.	0	.	0	.	0	.	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No.	GW-643		GW-644		GW-647		GW-648		GW-649		GW-651	
Location	BG		OLF		OLF		RS		OLF		BG	
Date Sampled	11/03/91		10/17/91		10/21/91		10/03/91		10/02/91		11/23/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	FP	.	G	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	FP	.	N	.	N	.	FP	.	N	.
Methylene chloride	FP	.	G	.	G	.	G	.	G	.	FP	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Toluene	G	.	FP	.	FP	.	FP	.	FP	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Trichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	FP	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	0	.	0	.	0	.	0	.	0	.	0	.

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-652		GW-653		GW-654		GW-655		GW-683		GW-685	
	BG		BG		BG		BG		EXP		EXP	
	11/23/91		12/11/91		11/23/91		11/05/91		12/12/91		12/12/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	N	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	0.3	100	G	.
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	G	.	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	G	.	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	G	.	G	.	G	.	G	.	G	.	G	.
1,2-Dichloroethene	G	.	7	65.4	G	.	G	.	G	.	2	87
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
2-Hexanone	N	.	N	.	N	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	N	.	N	.	2	100	N	.	N	.
Methylene chloride	FP	.	G	.	FP	.	FP	.	G	.	FP	.
1,1,2,2-Tetrachloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Tetrachloroethene	G	.	3	28	G	.	G	.	G	.	G	.
Toluene	G	.	G	.	G	.	FP	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
Trichloroethene	G	.	0.7	6.5	G	.	G	.	G	.	0.3	13
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	0	.	10.7	99.9	0	.	2	100	0.3	100	2.3	100

(CONTINUED)

APPENDIX I
Validated VOC Results
Fourth Quarter 1991

Well No. . Location . Date Sampled	GW-694		GW-703		GW-704		GW-706		GW-710		GW-712	
	EXP		EXP		EXP		EXP		EXP		EXP	
	11/22/91		11/18/91		11/19/91		11/19/91		12/05/91		12/09/91	
	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum	ug/L	% sum
Acetone	FP	.	N	.	N	.	N	.	N	.	N	.
Benzene	G	.	G	.	G	.	G	.	G	.	G	.
Bromodichloromethane	G	.	G	.	G	.	G	.	G	.	G	.
Bromoform	G	.	G	.	1	1.3	G	.	G	.	G	.
Carbon tetrachloride	G	.	G	.	1	1.3	G	.	G	.	G	.
Chloroethane	N	.	N	.	N	.	N	.	N	.	N	.
Chloroform	.	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethane	G	.	G	.	1	1.3	G	.	G	.	G	.
1,2-Dichloroethane	G	.	G	.	G	.	G	.	G	.	G	.
1,1-Dichloroethene	2	12.5	G	.	5	6.7	G	.	G	.	G	.
1,2-Dichloroethene	G	.	G	.	G	.	11	73.3	G	.	G	.
Ethylbenzene	G	.	G	.	G	.	G	.	G	.	G	.
2-Hexanone	N	.	N	.	FP	.	N	.	N	.	N	.
4-Methyl-2-pentanone	N	.	5	17.9	FP	.	N	.	N	.	N	.
Methylene chloride	FP	.	FP	.	FP	.	G	.	FP	.	FP	.
1,1,2,2-Tetrachloroethane	G	.	G	.	FP	.	G	.	G	.	G	.
Tetrachloroethene	G	.	G	.	G	.	G	.	G	.	G	.
Toluene	G	.	G	.	G	.	G	.	G	.	G	.
1,1,1-Trichloroethane	G	.	G	.	2	2.7	G	.	G	.	G	.
Trichloroethene	14	87.5	23	82.1	65	86.7	4	26.7	G	.	G	.
Vinyl acetate	N	.	N	.	N	.	N	.	N	.	N	.
Vinyl chloride	N	.	N	.	N	.	N	.	N	.	N	.
Xylenes	G	.	G	.	G	.	G	.	G	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.
SUMMED VOCS	16	100	28	100	75	100	15	100	0	.	0	.

APPENDIX J

**TRACE METAL CONCENTRATIONS EXCEEDING
MAXIMUM CONTAMINANT LEVELS**

EXPLANATION

LOCATION:

BG - Bear Creek Burial Grounds WMA
EXP - Exit-Pathway Monitoring Well
OLF - Oil Landfarm WMA
S3 - S-3 Site
SPI - Spoil Area I
RS - Rust Spoil Area

NOTE:

mg/L - milligrams per Liter
.
- Concentration less than MCL
TOT - Total Concentration (Unfiltered Sample)
DIS - Dissolved Concentration (Filtered Sample)
TSS - Total Suspended Solids

<u>Metal</u>	<u>Maximum Contaminant Level (mg/L)</u>
Barium (ICP)	1.0
Cadmium (AAS)	0.01
Chromium (AAS)	0.05
Lead (AAS)	0.05
Mercury (CVAA)	0.002

Because of inherent analytical interferences, ICP results for arsenic, selenium, and silver were not evaluated with respect to MCLs. Historical AAS results for these metals have shown only isolated and sporadic occurrences where concentrations exceeded MCLs.

APPENDIX J
Trace Metal Concentrations Exceeding
Maximum Contaminant Levels, 1991

Well No. . Location . Date Sampled	GW-243		GW-287		GW-520		GW-526						GW-531	
	S3		BG		OLF		S3						OLF	
	10/11/91		09/14/91		03/25/91		01/16/91		04/13/91		08/02/91		03/26/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
Barium	5.3	4.7	1.6	0.13	.	.	7.8	7.8	7.9	0.027	9	9.1	.	.
Cadmium (AAS)	2.2	2.2	.	.	.	.	.	.	.	.	.	.	.	.
Chromium (AAS)	0.19	0.21	.	.	.	.	.	.	.	.	.	.	.	.
Lead (AAS)	.	.	.	.	0.057	<0.004	.	.	.	.	.	.	0.066	<0.004
Mercury (CVAA)	0.11	0.1	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TSS (mg/L)	54	.	12	.	22	.	3	.	5	.	7	.	934	.

(CONTINUED)

Well No. . Location . Date Sampled	GW-537						GW-615							
	OLF						S3							
	03/26/91		06/25/91		08/14/91		01/11/91		04/10/91		08/05/91		10/08/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
Barium	2	2.1	1.8	0.26	2.1	1.9	360	360	390	0.2	390	380	380	390
Cadmium (AAS)	.	.	.	.	.	.	0.14	0.14	0.13	<0.002	0.035	0.033	.	.
Chromium (AAS)	.	.	.	.	.	.	.	.	0.17	<0.01	.	.	.	.
Lead (AAS)	.	.	.	.	.	.	.	.	1.3	<0.004	.	.	.	.
Mercury (CVAA)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TSS (mg/L)	22	.	2	.	3	.	21	.	101	.	107	.	33	.

(CONTINUED)

APPENDIX J
Trace Metal Concentrations Exceeding
Maximum Contaminant Levels, 1991

Well No. . Location . Date Sampled	GW-005		GW-042						GW-053		GW-054		GW-057	
	OLF		BG						BG		BG		BG	
	01/26/91		03/05/91		09/05/91		11/04/91		09/26/91		11/24/91		06/19/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
Barium	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cadmium (AAS)	.	.	0.023	0.031	0.058	0.037	0.02	0.017	.	.	.	.	.	.
Chromium (AAS)	.	.	.	.	.	.	.	.	0.44	<0.01	.	.	0.71	<0.01
Lead (AAS)	0.079	<0.004	.	.	.	.	.	.	0.058	<0.004	0.073	<0.004	.	.
Mercury (CVAA)	0.0097	<0.0002	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TSS (mg/L)	172	.	<1	.	<1	.	<1	.	36	.	31	.	8	.

(CONTINUED)

Well No. . Location . Date Sampled	GW-063		GW-080		GW-101		GW-122				GW-243			
	OLF		BG		S3		S3				S3			
	02/08/91		11/06/91		04/14/91		01/12/91		04/13/91		01/22/91		08/06/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
Barium	.	.	.	.	2.4	7.1	8.2	7.9	8.4	8.4	10	5.6	8.3	10
Cadmium (AAS)	.	.	0.011	0.0025	.	.	.	.	.	.	1.6	1.6	4	2.5
Chromium (AAS)	0.13	<0.01	0.28	<0.01	.	.	.	.	.	.	0.31	0.32	0.31	0.32
Lead (AAS)	.	.	0.21	<0.004	.	.	.	.	.	.	.	.	.	.
Mercury (CVAA)	.	.	.	.	.	.	.	.	.	.	0.071	0.066	0.0023	0.002
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TSS (mg/L)	75	.	550	.	81	.	4	.	6	.	53	.	65	.

(CONTINUED)

APPENDIX J
Trace Metal Concentrations Exceeding
Maximum Contaminant Levels, 1991

Well No. . Location . Date Sampled	GW-621						GW-623				GW-644		GW-705	
	BG						BG				OLF		EXP	
	06/20/91		09/10/91		11/16/91		03/24/91		06/21/91		10/17/91		06/20/91	
	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS	TOT	DIS
Barium	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cadmium (AAS)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Chromium (AAS)	0.063	<0.01	0.095	<0.01	0.13	<0.01	0.25	<0.01	0.44	<0.01	0.44	<0.01	.	.
Lead (AAS)	.	.	.	.	.	.	0.074	0.0082	0.56	<0.004	0.16	<0.004	0.25	<0.004
Mercury (CVAA)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TSS (mg/L)	16	.	14	.	40	.	40	.	1150	.	486	.	76	.

APPENDIX K
RADIOCHEMICAL DATA SUMMARY

EXPLANATION

LOCATION:

BG - Bear Creek Burial Grounds WMA
EXP - Exit-Pathway Monitoring Well
OLF - Oil Landfarm WMA
S3 - S-3 Site
SPI - Spoil Area I
RS - Rust Spoil Area

NOTE:

pCi/L - picoCuries per Liter
CE(+/-) - Counting Error (two standard deviations)
. - Not analyzed

Mean counting error (e) calculated using the following formula from Evans (1955):

$$e = \sqrt{\frac{E_1^2}{n^2} + \frac{E_2^2}{n^2} + \frac{E_3^2}{n^2} + \dots}$$

where E_1 , E_2 , ... E_x are the individual errors, and n is the number of observations.

**GROSS ALPHA AND GROSS BETA
ACTIVITY DATA SUMMARY**

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-005		GW-013		GW-018		GW-037		GW-040		GW-042		GW-043	
	OLF		OLF		BG		BG		BG		BG		OLF	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	47.88	4.90	0.57	1.30	1.24	1.00	-0.02	1.40	.	.	0.77	1.50	0.51	1.30
Second Quarter	16.65	2.90	4.03	1.80	1.24	1.40	0.46	1.20	.	.	-0.11	1.10	-0.34	1.10
Third Quarter	.	.	0.54	1.10	.	.	.	.	.	.	0.60	1.20	1.49	1.30
Fourth Quarter	.	.	0.16	1.80	.	.	.	.	9.72	3.00	0.00	1.50	0.29	1.70
Mean	32.27	2.80	1.32	0.80	1.24	0.90	0.22	0.90	9.72	3.00	0.31	0.70	0.49	0.70
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	35.83	4.90	1.36	3.30	3.68	3.20	3.12	3.50	.	.	0.74	3.30	-2.05	3.30
Second Quarter	17.26	4.20	9.37	3.80	-1.66	3.30	0.92	3.40	.	.	1.90	3.40	3.93	3.50
Third Quarter	.	.	1.89	3.30	.	.	.	.	.	.	1.12	3.00	5.02	3.50
Fourth Quarter	.	.	2.16	2.80	.	.	.	.	12.90	3.50	-2.13	2.70	0.08	2.70
Mean	26.54	3.20	3.69	1.70	1.01	2.30	2.02	2.40	12.90	3.50	0.41	1.60	1.75	1.60

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-044		GW-052		GW-053		GW-054		GW-056		GW-057		GW-058	
	OLF		BG		BG		BG		BG		BG		BG	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	1.95	1.50	31.16	3.90	2.57	1.60	2.47	1.50	7.76	2.10	2.53	1.50	11.81	2.60
Second Quarter	0.69	1.30	.	.	1.30	1.40	0.79	1.20	1.77	1.40	2.68	1.60	4.37	1.80
Third Quarter	2.22	1.30	.	.	2.55	1.50	2.93	1.40	2.34	1.30	.	.	8.01	2.20
Fourth Quarter	0.30	1.70	.	.	-0.93	2.30	1.51	2.60	3.17	2.30	.	.	7.96	3.40
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	1.29	0.70	31.16	3.90	1.37	0.90	1.92	0.90	3.76	0.90	2.60	1.10	8.04	1.30
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	-0.38	3.40	51.44	5.30	5.43	3.40	2.41	3.40	8.65	3.70	1.18	3.30	18.33	4.00
Second Quarter	0.19	3.30	.	.	2.67	3.50	5.82	3.50	10.14	3.70	2.16	3.50	4.32	3.60
Third Quarter	0.39	3.30	.	.	9.60	3.40	24.20	4.20	2.57	3.10	.	.	17.10	3.90
Fourth Quarter	2.56	2.90	.	.	6.89	3.20	2.17	2.70	3.13	2.80	.	.	19.10	4.20
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.69	1.60	51.44	5.30	6.15	1.70	8.65	1.70	6.12	1.70	1.67	2.40	14.71	2.00

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-061		GW-063		GW-064		GW-069		GW-071		GW-072		GW-074	
	BG		OLF		OLF		BG		BG		BG		OLF	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	12.55	2.70	2.07	1.40	-0.02	1.30	1.57	1.50	1.48	1.10	-0.30	1.20	-0.13	1.20
Second Quarter	9.82	2.40	1.13	1.50	2.43	1.50	0.16	1.20	2.04	1.40	2.08	1.50	-0.09	1.30
Third Quarter	27.00	3.60	2.01	1.40	0.72	1.20	2.49	1.30	.	.	.	.	1.14	1.40
Fourth Quarter	15.90	4.00	3.84	2.00	1.23	1.40	-1.68	2.00	.	.	.	.	2.04	1.70
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	16.32	1.60	2.26	0.80	1.09	0.70	0.64	0.80	1.76	0.90	0.89	1.00	0.74	0.70
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	20.24	4.10	16.02	4.00	22.58	4.30	4.11	3.30	3.50	3.20	0.97	3.10	2.01	3.40
Second Quarter	16.87	4.20	10.07	3.70	22.95	4.40	2.26	3.40	3.85	3.20	2.55	3.40	5.49	3.50
Third Quarter	82.90	6.20	13.01	3.90	22.88	4.30	6.44	3.30	.	.	.	.	-2.50	3.00
Fourth Quarter	45.90	4.80	7.83	3.00	9.77	3.10	-2.96	3.10	.	.	.	.	2.44	2.70
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	41.48	2.40	11.73	1.80	19.54	2.00	2.46	1.60	3.67	2.30	1.76	2.30	1.86	1.60

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-075		GW-076		GW-077		GW-078		GW-079		GW-080		GW-082	
	OLF		OLF		BG		BG		BG		BG		BG	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.98	1.40	1.03	1.50	0.25	1.10	2.51	1.50	1.34	1.30	4.43	1.70	0.51	1.50
Second Quarter	0.94	1.50	0.31	1.00	0.66	1.20	1.92	1.40	0.34	1.00	2.09	1.50	0.75	0.90
Third Quarter	2.69	1.70	.	.	.	.	.	.	.	.	1.85	1.30	0.70	1.10
Fourth Quarter	1.59	2.40	.	.	.	.	.	.	.	.	2.11	1.90	0.16	2.10
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	1.55	0.90	0.67	0.90	0.45	0.80	2.21	1.00	0.84	0.80	2.62	0.80	0.53	0.70
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	7.28	3.60	8.57	3.60	0.20	3.20	4.45	3.50	0.37	3.30	8.59	3.70	3.09	3.50
Second Quarter	2.51	3.30	4.36	3.60	1.07	3.30	5.03	3.50	-1.51	3.20	9.40	3.70	0.98	3.30
Third Quarter	2.55	3.30	.	.	.	.	.	.	.	.	2.63	3.40	1.93	3.50
Fourth Quarter	4.97	3.00	.	.	.	.	.	.	.	.	7.28	3.20	4.24	3.00
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	4.33	1.70	6.46	2.50	0.63	2.30	4.74	2.50	-0.57	2.30	6.97	1.80	2.56	1.70

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-083		GW-084		GW-085		GW-086		GW-089		GW-095		GW-101	
	BG		OLF		OLF		OLF		BG		BG		S3	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	2.09	1.70	0.45	1.30	2.07	1.70	6.18	2.20	1.38	1.60	1.22	1.00	23.41	16.80
Second Quarter	0.90	1.30	1.59	1.50	1.85	1.30	3.89	1.90	0.38	1.20	1.66	1.40	10.06	14.60
Third Quarter	1.02	1.10	0.98	1.10	0.72	1.20	.	.	0.54	1.10	1.37	1.20	.	.
Fourth Quarter	1.36	2.20	0.16	1.70	1.37	2.10	.	.	-0.47	1.50	-2.97	2.00	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	1.34	0.80	0.79	0.70	1.50	0.80	5.04	1.50	0.46	0.70	0.32	0.70	16.73	11.10
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.96	3.30	1.35	3.50	69.36	6.10	11.60	3.80	1.40	3.40	1.88	3.10	43.72	38.10
Second Quarter	4.51	3.50	0.30	3.30	72.08	6.20	11.59	3.80	5.53	3.60	0.39	3.40	41.52	33.60
Third Quarter	0.55	3.00	-0.97	3.20	89.39	6.60	.	.	2.49	3.40	3.26	3.60	.	.
Fourth Quarter	2.97	2.90	2.40	2.80	24.60	4.00	.	.	1.46	2.90	-6.26	2.90	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	2.25	1.60	0.77	1.60	63.86	2.90	11.59	2.70	2.72	1.70	-0.18	1.60	42.62	25.40

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. • Location	GW-115		GW-117		GW-118		GW-119		GW-122		GW-123		GW-125	
	S3		BG		BG		BG		S3		S3		S3	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
•	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	1.57	1.20	-1.07	1.20	1.67	1.70	-0.19	1.40	-11.01	11.40	-1.04	2.70	6.60	2.20
Second Quarter	1.45	1.10	9.97	13.70	2.93	12.50	-13.91	8.80	-0.81	6.60	0.88	0.90	5.27	1.60
Third Quarter	1.84	1.40	2.39	1.40	17.41	6.80	9.13	5.60	.	.	-0.11	2.10	0.39	2.20
Fourth Quarter	5.44	1.90	-6.96	23.00	-26.60	29.00	-14.40	26.00	.	.	1.41	1.40	1.29	1.40
•	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	2.57	0.70	1.08	6.70	-1.15	8.10	-4.84	7.00	-5.91	6.60	0.28	1.00	3.39	0.90
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
•	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	2.02	3.40	-1.75	3.30	-1.57	3.30	3.81	3.60	-9.33	35.40	10.55	7.30	40.90	5.20
Second Quarter	6.79	3.30	15.22	33.40	-4.93	32.20	31.38	34.30	40.05	33.20	7.99	3.40	9.60	3.50
Third Quarter	5.20	3.40	0.69	3.50	-0.36	13.70	16.42	14.60	.	.	11.09	6.80	9.93	6.70
Fourth Quarter	13.30	3.60	-11.40	32.00	-13.60	33.00	6.25	34.00	.	.	10.50	3.50	10.60	3.60
•	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	6.83	1.70	0.69	11.60	-5.12	12.10	14.47	12.60	15.36	24.30	10.03	2.80	17.76	2.50

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-162		GW-163		GW-164		GW-209		GW-210		GW-211		GW-225	
	BG		BG		BG		EXP		EXP		EXP		OLF	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.99	1.00	1.01	1.00	2.30	1.30	3.99	1.80	1.90	1.40	-0.45	2.00	1.84	1.60
Second Quarter	0.03	1.20	1.27	1.40	1.84	1.50	3.42	1.60	-0.17	1.10	2.15	1.50	3.70	1.70
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	2.73	1.60
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	6.63	2.60
Mean	0.51	0.80	1.14	0.90	2.07	1.00	3.70	1.20	0.86	0.90	0.85	1.30	3.72	1.00
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	4.60	3.30	5.71	3.40	6.45	3.40	7.04	3.60	5.49	3.60	-22.29	5.10	42.29	5.10
Second Quarter	-1.05	3.30	0.95	3.40	-0.26	3.30	2.99	3.40	3.48	3.40	8.03	3.70	33.78	4.80
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	29.90	4.60
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	23.20	3.80
Mean	1.77	2.30	3.33	2.40	3.09	2.40	5.01	2.50	4.48	2.50	-7.13	3.20	32.29	2.30

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-226		GW-227		GW-243		GW-286		GW-287		GW-290		GW-291	
	OLF		OLF		S3		BG		BG		BG		BG	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	22.19	3.30	28.34	3.70	12000.00	770.00	.	.	.	.	1.70	1.10	2.25	1.20
Second Quarter	33.86	4.00	17.04	3.10	15000.00	830.00	.	.	.	.	1.02	1.40	0.73	1.20
Third Quarter	.	.	8.21	2.20	1060.00	70.00	2.19	1.30	1.05	1.10	.	.	.	.
Fourth Quarter	.	.	9.42	2.80	12400.00	690.00	2.75	1.90	2.61	1.90	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	28.02	2.60	15.75	1.50	10115.00	331.90	2.47	1.20	1.83	1.10	1.36	0.90	1.49	0.80
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	41.44	5.00	80.07	6.30	38000.00	1300.00	.	.	.	.	10.66	3.60	6.06	3.30
Second Quarter	32.61	4.80	64.70	5.80	75000.00	1700.00	.	.	.	.	3.53	3.60	2.78	3.10
Third Quarter	.	.	49.80	5.30	7470.00	170.00	2.25	3.10	2.44	3.10	.	.	.	.
Fourth Quarter	.	.	51.70	4.90	59800.00	1000.00	0.08	2.80	0.99	2.90	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	37.03	3.50	61.57	2.80	45067.50	592.10	1.17	2.10	1.72	2.10	7.09	2.50	4.42	2.30

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-306		GW-307		GW-308		GW-309		GW-310		GW-311		GW-312	
	RS		RS		RS		RS		RS		RS		RS	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	1.35	1.50	0.38	1.40	4.81	2.00	2.23	1.70	1.04	1.50	2.17	1.70	1.09	1.50
Second Quarter	2.71	1.70	3.60	1.80	2.66	1.70	1.08	1.50	1.96	1.50	2.88	1.80	3.03	1.80
Third Quarter	.	.	.	.	.	.	3.34	1.60	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	1.17	1.50	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	2.03	1.10	1.99	1.10	3.73	1.30	1.95	0.80	1.50	1.10	2.52	1.20	2.06	1.20
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	24.14	4.70	31.65	5.00	32.06	5.00	46.09	5.50	38.85	5.20	0.21	3.60	13.57	4.20
Second Quarter	12.49	3.80	27.17	4.50	16.92	4.00	39.43	4.90	23.14	4.40	4.34	3.40	16.25	4.00
Third Quarter	.	.	.	.	.	.	57.08	5.60	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	21.10	3.70	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	18.31	3.00	29.41	3.40	24.49	3.20	40.92	2.50	30.99	3.40	2.27	2.50	14.91	2.90

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-313		GW-314		GW-315		GW-316		GW-317		GW-323		GW-324	
	SPI		SPI		SPI		SPI		SPI		SPI		S3	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.27	1.00	1.27	1.20	0.40	1.00	2.06	1.30	1.81	1.30	2.90	1.50	0.91	1.10
Second Quarter	-0.11	1.10	2.24	1.20	0.78	0.80	3.01	1.30	0.75	0.80	1.61	1.00	2.31	1.30
Third Quarter	1.68	1.30	3.13	1.60	5.29	1.90	0.98	1.20	2.24	1.50	1.91	1.40	.	.
Fourth Quarter	1.03	1.40	2.19	1.50	2.65	1.60	0.35	1.20	1.69	1.10	3.95	1.50	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.72	0.60	2.21	0.70	2.28	0.70	1.60	0.60	1.62	0.60	2.59	0.70	1.61	0.90
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	2.22	3.30	9.07	3.70	8.57	3.70	3.07	3.40	2.59	3.40	3.07	3.40	-0.41	3.20
Second Quarter	4.62	3.30	5.36	3.20	17.10	3.80	6.71	3.30	4.84	3.20	8.80	3.40	4.72	3.20
Third Quarter	3.68	3.30	71.38	6.30	108.55	7.40	2.82	3.20	2.73	3.20	1.41	3.20	.	.
Fourth Quarter	10.80	3.60	22.30	4.10	159.00	8.20	2.35	3.10	-1.42	3.10	5.78	3.60	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	5.33	1.70	27.03	2.20	73.31	3.10	3.74	1.60	2.18	1.60	4.76	1.70	2.15	2.30

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-325		GW-342		GW-343		GW-344		GW-345		GW-347		GW-348	
	S3		BG		BG		BG		S3		S3		S3	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	2.60	1.40	0.79	1.50	0.63	1.50	1.42	1.60	3.12	1.70	.	.	.	.
Second Quarter	1.49	1.00	6.98	2.10	1.40	1.40	-0.15	1.10	1.13	1.00	2.09	1.10	2.54	1.20
Third Quarter	.	.	4.97	1.80	0.39	1.20	0.39	1.10	.	.	1.07	1.30	0.91	1.30
Fourth Quarter	.	.	2.07	1.90	2.47	2.20	0.46	1.60	.	.	1.17	1.00	1.74	1.10
Mean	2.04	0.90	3.70	0.90	1.22	0.80	0.53	0.70	2.12	1.00	1.44	0.70	1.73	0.70
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	3.89	3.50	4.50	3.50	1.29	3.40	7.48	3.70	55.85	5.80	.	.	.	.
Second Quarter	4.75	3.20	9.97	3.80	2.96	3.50	0.80	3.40	44.34	5.10	7.65	3.30	35.56	4.60
Third Quarter	.	.	8.76	3.40	6.12	3.30	8.44	3.70	.	.	3.99	3.30	29.79	4.60
Fourth Quarter	.	.	2.65	3.00	8.58	3.40	3.23	3.00	.	.	4.99	3.50	34.95	4.90
Mean	4.32	2.40	6.47	1.70	4.74	1.70	4.99	1.70	50.10	3.90	5.54	1.90	33.43	2.70

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-364		GW-365		GW-366		GW-367		GW-369		GW-370		GW-371	
	OLF		OLF		OLF		OLF		OLF		BG		BG	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	5.13	1.90	1.14	1.30	1.84	1.40	5.03	1.80	1.75	1.40	5.05	1.70	.	.
Second Quarter	1.39	1.50	3.43	1.60	2.29	1.70	2.94	1.80	2.54	1.50	1.69	1.40	.	.
Third Quarter	4.06	1.80	1.00	1.30	2.13	1.60	.	.	.	.	4.32	1.70	1.41	1.30
Fourth Quarter	0.17	1.80	3.10	2.00	2.07	2.00	.	.	.	.	3.47	2.10	1.64	2.00
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	2.69	0.90	2.17	0.80	2.08	0.80	3.98	1.30	2.14	1.00	3.63	0.90	1.52	1.20
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	8.18	3.60	3.44	3.40	4.94	3.60	7.35	3.70	13.03	3.90	5.13	3.30	.	.
Second Quarter	6.34	3.50	3.49	3.40	6.28	3.50	8.88	3.70	20.43	4.20	5.05	3.50	.	.
Third Quarter	15.30	3.90	6.07	3.40	4.00	3.40	.	.	.	.	5.04	3.50	1.37	3.30
Fourth Quarter	3.36	2.90	6.10	2.90	5.49	3.00	.	.	.	.	1.82	2.90	1.50	3.00
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	8.30	1.70	4.77	1.60	5.18	1.70	8.11	2.60	16.73	2.90	4.26	1.70	1.43	2.20

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-372		GW-373		GW-520		GW-526		GW-531		GW-532		GW-533	
	BG		BG		OLF		S3		OLF		OLF		OLF	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	1.08	1.50	1.15	1.50	-0.82	1.30	0.08	1.20	12.56	2.80	1.94	1.70	0.45	0.90
Second Quarter	1.82	1.40	2.38	1.50	2.00	1.60	8.84	9.30	3.11	1.60	0.38	1.20	0.08	1.10
Third Quarter	2.39	1.50	1.81	1.40	1.56	1.50	9.17	14.00	.	.	.	.	.	.
Fourth Quarter	2.45	1.70	0.52	1.40	0.97	1.90	7.47	6.00	.	.	.	.	.	.
Mean	1.93	0.80	1.47	0.70	0.93	0.80	6.39	4.50	7.83	1.60	1.16	1.00	0.27	0.70
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	1.61	3.30	1.20	3.30	9.31	3.80	-1.59	3.40	15.93	4.20	3.38	3.50	4.01	3.20
Second Quarter	2.52	3.30	2.21	3.30	10.56	3.70	17.78	31.90	7.26	3.40	1.66	3.00	4.91	3.20
Third Quarter	4.18	3.20	2.05	3.00	6.10	3.50	-2.04	31.00	.	.	.	.	.	.
Fourth Quarter	5.01	2.80	1.43	2.60	6.76	3.10	4.29	12.00	.	.	.	.	.	.
Mean	3.33	1.60	1.72	1.50	8.18	1.80	4.61	11.50	11.59	2.70	2.52	2.30	4.46	2.30

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-534		GW-535		GW-537		GW-538		GW-601		GW-602		GW-613	
	OLF		OLF		OLF		OLF		OLF		OLF		S3	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.25	1.50	1.18	1.10	-8.01	12.80	1.65	1.20	1.68	1.60	2.64	1.80	2.14	1.30
Second Quarter	1.11	1.30	0.44	1.20	0.28	4.40	0.85	1.20	3.44	1.60	3.70	1.60	2.24	1.20
Third Quarter	.	.	.	.	14.50	13.00	.	.	3.24	1.70	4.08	1.90	1.67	1.40
Fourth Quarter	.	.	.	.	9.81	7.00	.	.	3.69	2.00	4.69	3.00	1.15	1.30
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.68	1.00	0.81	0.80	4.14	5.00	1.25	0.80	3.01	0.90	3.78	1.10	1.80	0.70
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	9.27	3.80	4.92	3.20	157.86	41.50	5.24	3.30	20.40	4.20	16.57	4.10	-0.62	3.20
Second Quarter	1.13	3.00	2.39	3.10	234.67	22.10	4.85	3.20	23.25	4.50	16.42	4.20	1.03	3.00
Third Quarter	.	.	.	.	404.43	50.10	.	.	22.50	4.20	14.50	3.90	0.86	3.10
Fourth Quarter	.	.	.	.	134.00	17.00	.	.	17.60	3.50	8.68	3.33	1.84	2.90
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	5.20	2.40	3.65	2.20	232.74	17.70	5.04	2.30	20.94	2.10	14.04	1.90	0.78	1.50

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-614		GW-615		GW-616		GW-621		GW-622		GW-623		GW-624	
	S3		S3		S3		BG		BG		BG		BG	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	1.99	1.30	540.00	180.00	9.76	14.90	4.73	1.60	1.46	1.10	4.47	1.60	1.85	1.70
Second Quarter	2.04	1.10	586.70	194.70	6.40	1.80	4.29	1.90	0.81	1.30	15.35	2.90	1.37	1.50
Third Quarter	1.18	1.30	439.00	190.00	-0.09	4.00	5.44	1.80	2.15	1.40	5.08	1.90	.	.
Fourth Quarter	12.10	2.60	342.00	150.00	7.24	5.90	4.25	2.20	0.00	2.10	1.80	4.30	.	.
Mean	4.33	0.80	476.92	89.80	5.83	4.20	4.68	0.90	1.10	0.80	6.67	1.40	1.61	1.10
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	2.80	3.40	964.00	370.00	-24.87	34.50	15.73	3.80	4.33	3.20	8.51	3.50	3.41	3.50
Second Quarter	3.45	3.10	918.81	357.00	4.10	3.30	4.75	3.60	-0.81	3.30	15.34	4.20	6.81	3.70
Third Quarter	1.83	3.20	764.00	350.00	-15.63	12.90	29.28	4.60	-1.26	3.40	9.39	3.40	.	.
Fourth Quarter	24.70	4.10	827.00	180.00	18.60	13.00	14.10	3.60	1.91	2.90	9.74	3.50	.	.
Mean	8.20	1.70	868.45	161.90	-4.45	9.80	15.97	2.00	1.04	1.60	10.75	1.80	5.11	2.50

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-626		GW-627		GW-629		GW-630		GW-636		GW-637		GW-638	
	BG		BG		BG		OLF		OLF		OLF		OLF	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	1.82	1.10	-11.27	12.20	3.61	1.50	1.20	1.60	0.05	1.10	0.18	1.30	7.17	2.20
Second Quarter	0.68	1.40	-0.51	1.00	0.48	1.30	0.56	1.20	0.02	1.10	3.83	1.70	4.82	1.80
Third Quarter	-0.40	1.50	3.41	1.60	.	.	0.89	1.20	0.26	1.40	0.91	1.20	6.48	2.20
Fourth Quarter	0.75	2.10	-1.49	20.00	.	.	0.46	1.80	0.96	1.90	0.46	1.80	7.94	3.10
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.71	0.80	-2.46	5.90	2.04	1.00	0.78	0.70	0.32	0.70	1.34	0.80	6.60	1.20
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	5.38	3.30	-34.91	31.60	3.87	3.20	1.00	3.40	4.34	3.40	0.51	3.20	16.75	4.10
Second Quarter	6.54	3.70	3.41	3.20	-1.76	3.30	1.97	3.10	1.53	3.30	3.61	3.40	9.19	3.70
Third Quarter	-0.42	3.40	-1.58	3.30	.	.	4.70	3.40	2.62	3.30	-0.26	3.20	14.17	3.90
Fourth Quarter	4.46	3.00	-21.40	31.00	.	.	3.81	2.90	5.33	3.00	0.99	2.80	12.80	3.50
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	3.99	1.70	-13.62	11.10	1.05	2.30	2.87	1.60	3.45	1.60	1.21	1.60	13.23	1.90

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-639		GW-640		GW-641		GW-642		GW-643		GW-644		GW-645	
	BG		BG		BG		BG		BG		OLF		OLF	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	1.93	1.70	-0.33	1.40	-0.76	1.30	0.29	1.50	7.59	2.10	0.63	1.30	1.63	1.50
Second Quarter	1.51	1.40	0.06	1.10	0.69	1.20	1.19	1.40	0.61	1.20	0.07	1.20	3.60	1.70
Third Quarter	2.15	1.40	0.44	1.10	0.70	1.10	3.86	1.70	2.96	1.60	0.83	1.50	0.78	1.50
Fourth Quarter	1.23	2.30	1.88	1.80	0.85	1.60	1.63	1.40	2.37	1.60	1.36	1.90	3.78	2.30
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	1.70	0.90	0.51	0.70	0.37	0.70	1.74	0.80	3.38	0.80	0.72	0.70	2.45	0.90
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	2.13	3.50	1.92	3.50	-0.86	3.30	0.58	3.30	9.39	3.80	3.91	3.50	1.70	3.30
Second Quarter	1.32	3.00	2.51	3.10	1.69	3.00	2.93	3.50	4.40	3.50	3.59	3.10	3.09	3.40
Third Quarter	1.42	3.30	0.14	3.20	1.22	3.30	5.10	3.20	5.38	3.20	1.95	3.30	3.18	3.30
Fourth Quarter	3.61	3.20	0.00	2.80	1.23	2.90	5.19	2.80	1.81	2.50	2.72	2.90	4.24	3.00
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	2.12	1.60	1.14	1.60	0.82	1.60	3.45	1.60	5.24	1.60	3.04	1.60	3.05	1.60

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-646		GW-647		GW-648		GW-649		GW-651		GW-652		GW-653	
	OLF		OLF		RS		OLF		BG		BG		BG	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	6.39	2.10	2.76	1.50	1.16	1.50	1.31	1.20	3.91	1.50	3.65	1.40	3.66	1.40
Second Quarter	4.84	2.00	1.45	1.60	8.13	2.20	1.83	1.10	2.14	1.60	0.73	1.40	6.60	2.00
Third Quarter	6.42	2.20	0.47	1.30	4.56	1.80	0.37	1.20	6.79	1.90	1.81	1.30	2.63	1.40
Fourth Quarter	9.81	4.00	3.78	2.10	2.22	1.20	2.18	1.20	0.00	1.50	1.70	1.80	2.00	1.50
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	6.86	1.40	2.11	0.80	4.02	0.90	1.42	0.60	3.21	0.80	1.97	0.70	3.72	0.80
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	17.32	4.10	6.10	3.60	-0.78	3.50	0.77	3.30	5.54	3.30	5.44	3.30	8.12	3.40
Second Quarter	18.48	4.10	7.57	3.60	19.61	4.30	4.40	3.20	2.46	3.50	0.61	3.40	6.92	3.40
Third Quarter	24.30	4.40	3.58	3.40	3.32	3.30	2.29	3.20	6.10	3.30	7.23	3.40	9.56	3.50
Fourth Quarter	17.80	3.70	7.99	3.10	1.34	3.30	-0.95	3.20	3.23	3.00	2.07	3.00	4.50	2.70
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	19.47	2.00	6.31	1.70	5.87	1.80	1.63	1.60	4.33	1.60	3.84	1.60	7.27	1.60

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-654		GW-655		GW-683		GW-684		GW-685		GW-694		GW-695	
	BG		BG		EXP		EXP		EXP		EXP		EXP	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	1.57	1.60	0.59	1.00	.	.	.	.	.	.	.	.	.	.
Second Quarter	1.18	1.40	14.22	2.80	19.89	3.20	14.89	2.80	2.73	1.50	23.68	3.50	4.59	1.80
Third Quarter	1.73	1.30	4.92	1.80	27.80	3.60	1.59	1.20	2.87	1.40	55.48	5.10	6.16	1.9
Fourth Quarter	0.47	1.60	5.77	2.40	12.60	3.20	12.80	3.20	1.35	1.80	48.80	6.00	5.08	2.40
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	1.24	0.70	6.37	1.10	20.10	1.90	9.76	1.50	2.32	0.90	42.65	2.90	5.28	1.20
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.52	3.30	2.82	3.40	.	.	.	.	.	.	.	.	.	.
Second Quarter	1.38	3.40	17.90	4.20	37.65	4.90	36.26	4.90	7.66	3.60	48.38	5.40	15.89	4.20
Third Quarter	2.99	3.10	10.33	3.50	93.20	6.60	-2.39	2.80	8.68	3.40	143.17	7.90	12.13	3.60
Fourth Quarter	-1.33	2.80	3.59	3.00	27.40	4.00	34.30	4.30	8.68	3.10	131.00	7.20	14.00	3.60
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.89	1.60	8.66	1.80	52.75	3.00	22.72	2.40	8.34	1.90	107.52	4.00	14.01	2.20

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Well No. Location	GW-703		GW-704		GW-705		GW-706		GW-710		GW-711		GW-712	
	EXP		EXP		EXP		EXP		EXP		EXP		EXP	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Second Quarter	2.15	1.50	1.60	1.40	1.97	1.50	4.58	1.90	.	.	.	.	.	.
Third Quarter	2.42	1.40	2.32	1.40	3.90	1.60	24.84	3.40	.	.	.	.	.	.
Fourth Quarter	3.40	2.10	2.09	1.90	-0.62	2.00	58.40	7.10	32.30	21.00	23.80	22.00	1.76	2.30
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	2.66	1.00	2.00	0.90	1.75	1.00	29.27	2.70	32.30	21.00	23.80	22.00	1.76	2.30
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Second Quarter	4.37	3.60	3.59	3.60	5.27	3.70	21.84	4.40	.	.	.	.	.	.
Third Quarter	5.06	3.20	5.28	3.30	3.80	3.20	67.36	5.80	.	.	.	.	.	.
Fourth Quarter	10.50	3.40	3.33	3.00	0.86	3.00	197.00	8.70	48.60	29.00	22.40	27.00	5.65	3.00
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	6.64	2.00	4.07	1.90	3.31	1.90	95.40	3.80	48.60	29.00	22.40	27.00	5.65	3.00

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Surface Water Location	BCK-00.63		BCK-04.55		BCK-09.40		BCK-11.97		NT-13		SS-1		SS-4	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	12.94	2.90	16.26	3.10	48.06	5.00	77.24	6.20	-1.04	1.30	24.62	3.70	21.70	3.50
Second Quarter	12.46	2.60	13.65	2.70	27.52	3.70	38.30	4.30	0.75	1.10	13.86	2.70	18.23	3.00
Third Quarter	17.17	3.00	13.22	2.70	43.32	4.60	42.77	4.50	1.14	1.40	11.74	2.60	26.28	3.60
Fourth Quarter	20.50	3.70	21.60	3.80	75.50	7.00	69.00	7.50	0.43	1.40	24.40	5.00	32.40	4.70
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	15.77	1.50	16.18	1.60	48.60	2.60	56.83	2.90	0.32	0.70	18.65	1.80	24.65	1.90
GROSS BETA	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	7.30	4.30	10.75	4.40	55.09	6.10	247.57	10.60	-4.97	3.70	101.96	7.40	30.40	5.20
Second Quarter	26.92	4.60	24.49	4.50	67.75	6.10	267.54	10.70	1.07	3.40	112.65	7.40	49.55	5.50
Third Quarter	37.56	4.90	37.28	4.80	119.76	7.40	234.65	9.90	3.75	3.30	121.77	7.40	123.86	7.50
Fourth Quarter	19.80	3.60	23.50	3.80	85.70	5.90	189.00	8.50	1.31	2.70	89.10	6.20	36.20	4.30
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	22.89	2.20	24.00	2.20	82.07	3.20	234.69	5.00	0.29	1.60	106.37	3.60	60.00	2.90

(CONTINUED)

APPENDIX K
Gross Alpha and Gross Beta Activity Data Summary

Surface Water Location	SS-5		SS-6		SS-8	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
GROSS ALPHA	.	.	.	.	.	.
.	.	.	.	.	.	.
First Quarter	15.10	3.00	-0.02	1.50	-0.16	1.50
Second Quarter	14.33	2.70	0.18	0.90	0.77	1.10
Third Quarter	31.80	4.00	0.66	1.30	-0.18	1.20
Fourth Quarter	4.45	2.10	1.45	1.60	-0.44	1.20
.	.	.	.	.	.	.
Mean	16.42	1.50	0.57	0.70	-0.00	0.60
GROSS BETA	.	.	.	.	.	.
.	.	.	.	.	.	.
First Quarter	14.12	4.60	-2.43	3.80	-5.26	3.70
Second Quarter	33.87	4.90	-3.67	3.10	0.18	3.30
Third Quarter	81.75	6.30	0.95	3.20	1.35	3.20
Fourth Quarter	7.58	3.00	0.74	2.60	1.40	2.70
.	.	.	.	.	.	.
Mean	34.33	2.40	-1.10	1.60	-0.58	1.60

**ALPHA-EMITTING RADIONUCLIDE
DATA SUMMARY**

APPENDIX K
Alpha-Emitting Radionuclide Data Summary

Well No. Location	GW-042		GW-043		GW-044		GW-058		GW-079		GW-080		GW-084	
	BG		OLF		OLF		BG		BG		BG		OLF	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Uranium 234	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.46	0.90	0.81	1.10	0.00	1.40	3.19	2.40	0.00	1.90	0.00	1.70	0.00	1.40
Second Quarter	-0.42	0.80	0.43	0.90	0.41	0.80	1.23	1.40	-0.43	0.90	0.00	1.50	3.32	2.40
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.02	0.60	0.62	0.70	0.20	0.80	2.21	1.40	-0.22	1.10	0.00	1.10	1.66	1.40
Uranium 235	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	-0.46	0.90	0.00	1.40	0.00	1.40	0.46	0.90	0.00	1.60	0.00	1.50	0.00	1.40
Second Quarter	0.00	1.40	0.00	1.50	0.00	1.40	0.00	1.40	0.00	1.50	0.00	1.50	2.49	2.00
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	-0.23	0.80	0.00	1.00	0.00	1.00	0.23	0.80	0.00	1.10	0.00	1.10	1.24	1.20
Uranium 238	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.00	1.60	0.00	1.40	0.00	1.40	0.91	1.30	0.00	1.60	0.44	0.90	0.00	1.40
Second Quarter	0.42	0.80	0.87	1.20	0.82	1.20	1.64	1.60	0.00	1.50	-0.84	1.20	0.83	1.20
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.21	0.90	0.44	0.90	0.41	0.90	1.27	1.00	0.00	1.10	-0.20	0.80	0.41	0.90

(CONTINUED)

APPENDIX K
Alpha-Emitting Radionuclide Data Summary

Well No. Location	GW-115		GW-162		GW-163		GW-164		GW-317		GW-324		GW-325	
	S3		BG		BG		BG		SPI		S3		S3	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Uranium 234	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.00	1.50	-0.44	0.90	-0.43	0.90	0.41	1.40	0.48	0.90	0.00	1.40	0.00	1.50
Second Quarter	-0.43	0.90	-0.44	0.90	0.41	1.40	2.87	2.50	0.00	1.50	0.48	1.60	0.00	1.50
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	-0.22	0.90	-0.44	0.60	-0.01	0.80	1.64	1.40	0.24	0.90	0.24	1.10	0.00	1.10
Uranium 235	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.00	1.50	0.00	1.50	0.00	1.50	0.41	0.80	0.00	1.60	0.00	1.40	0.00	1.50
Second Quarter	0.00	1.50	-0.44	0.90	0.00	1.60	-0.41	0.80	0.00	1.50	0.00	1.60	0.00	1.50
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.00	1.10	-0.22	0.90	0.00	1.10	0.00	0.60	0.00	1.10	0.00	1.10	0.00	1.10
Uranium 238	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.42	0.80	0.00	1.50	0.00	1.50	0.41	0.80	0.48	0.90	0.00	1.40	0.00	1.50
Second Quarter	0.00	1.50	0.44	1.50	4.50	3.40	0.41	1.40	0.00	1.50	0.48	1.00	0.00	1.50
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.21	0.90	0.22	1.10	2.25	1.90	0.41	0.80	0.24	0.90	0.24	0.90	0.00	1.10

(CONTINUED)

APPENDIX K
Alpha-Emitting Radionuclide Data Summary

Well No. Location	GW-342		GW-343		GW-344		GW-372		GW-373		GW-613		GW-614	
	BG		BG		BG		BG		BG		S3		S3	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Uranium 234	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.42	0.80	0.00	1.50	0.42	0.80	0.43	0.90	0.00	1.50	0.00	1.50	0.00	1.50
Second Quarter	-0.42	0.80	-0.42	0.80	-0.44	0.90	1.32	1.50	0.00	1.50	0.00	1.60	0.00	1.40
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.00	0.60	-0.21	0.90	-0.01	0.60	0.87	0.90	0.00	1.10	0.00	1.10	0.00	1.00
Uranium 235	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	-0.42	0.80	-0.43	0.90	-0.42	0.80	0.43	0.90	0.00	1.50	0.00	1.50	0.00	1.50
Second Quarter	-0.42	0.80	-0.42	0.80	-0.44	0.90	0.44	0.90	0.00	1.50	0.46	0.90	0.00	1.40
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	-0.42	0.60	-0.42	0.60	-0.43	0.60	0.43	0.60	0.00	1.10	0.23	0.90	0.00	1.00
Uranium 238	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.00	1.40	0.00	1.50	0.00	1.40	0.00	1.70	-0.44	0.90	0.00	1.50	0.43	0.90
Second Quarter	0.00	1.70	-0.42	0.80	-0.44	0.90	-0.88	1.20	-0.87	1.20	0.00	1.60	0.00	1.40
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.00	1.10	-0.21	0.90	-0.22	0.80	-0.44	1.00	-0.66	0.80	0.00	1.10	0.22	0.80

(CONTINUED)

APPENDIX K
Alpha-Emitting Radionuclide Data Summary

Well No. Location	GW-642		GW-643		GW-649		GW-654		GW-655	
	BG		BG		OLF		BG		BG	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Uranium 234	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.43	0.90	-0.44	0.90	0.00	1.50	0.82	1.20	0.00	1.40
Second Quarter	3.46	2.70	0.82	1.60	0.00	1.60	0.95	1.90	0.87	1.70
Third Quarter	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Mean	1.94	1.40	0.19	0.90	0.00	1.10	0.89	1.10	0.44	1.10
Uranium 235	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.00	1.70	0.00	1.50	0.00	1.50	-0.41	0.80	-0.42	0.80
Second Quarter	-0.43	0.90	0.41	0.80	0.00	1.60	0.00	1.90	0.00	1.70
Third Quarter	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Mean	-0.22	1.00	0.20	0.90	0.00	1.10	-0.20	1.00	-0.21	0.90
Uranium 238	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.00	1.50	0.44	0.90	0.00	1.50	0.41	0.80	0.00	1.40
Second Quarter	-0.43	0.90	0.00	1.40	0.00	1.60	0.00	1.90	0.00	1.70
Third Quarter	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Mean	-0.22	0.90	0.22	0.80	0.00	1.10	0.20	1.00	0.00	1.10

APPENDIX K
Alpha-Emitting Radionuclide Data Summary

Well No. Location	GW-061		GW-227		GW-243		GW-526		GW-615	
	BG		OLF		S3		S3		S3	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Uranium 234	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.00	1.40	.	.	4270.00	2000.00	.	.	.	.
Second Quarter	0.83	1.20	.	.	303.00	170.00	.	.	.	.
Third Quarter	.	.	.	.	4650.00	200.00	0.00	3.00	76.30	26.00
Fourth Quarter	.	.	.	.	3140.00	240.00	-0.43	0.86	0.00	17.00
.	.	.	.	.	.	.	.	.	.	.
Mean	0.41	0.90	.	.	3090.75	507.80	-0.22	1.60	38.15	15.50
Uranium 235	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.00	1.40	.	.	475.00	670.00	.	.	.	.
Second Quarter	0.42	0.80	.	.	454.00	200.00	.	.	.	.
Third Quarter	.	.	.	.	365.00	56.00	0.00	3.00	19.60	13.00
Fourth Quarter	.	.	.	.	178.00	60.00	0.00	1.50	0.00	19.00
.	.	.	.	.	.	.	.	.	.	.
Mean	0.21	0.80	.	.	368.00	176.00	0.00	1.70	9.80	11.50
Uranium 238	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.00	1.40	.	.	9020.00	3000.00	.	.	.	.
Second Quarter	4.16	2.60	.	.	800.00	260.00	.	.	.	.
Third Quarter	.	.	.	.	13600.00	340.00	0.00	3.00	242.00	46.00
Fourth Quarter	.	.	.	.	7550.00	370.00	0.86	1.70	56.70	31.00
.	.	.	.	.	.	.	.	.	.	.
Mean	2.08	1.50	.	.	7742.50	763.20	0.43	1.70	149.35	27.70

(CONTINUED)

APPENDIX K
Alpha-Emitting Radionuclide Data Summary

Well No. Location	GW-061		GW-227		GW-243		GW-526		GW-615	
	BG		OLF		S3		S3		S3	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Americium 241	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	.	.	.	.	.	.
Second Quarter	.	.	.	.	27.78	11.50	.	.	.	.
Third Quarter	0.40	1.60	-0.54	0.03	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	27.00	8.80	0.86	1.70	4.51	3.90
.	.	.	.	.	.	.	.	.	.	.
Mean	0.40	1.60	-0.54	0.03	27.39	7.24	0.86	1.70	4.51	3.90
Neptunium 237	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	41.70	59.00	.	.	.	.
Second Quarter	.	.	.	.	1090.00	310.00	.	.	.	.
Third Quarter	1.26	1.50	2.04	1.80	800.00	83.00	0.00	3.00	23.70	15.00
Fourth Quarter	.	.	.	.	394.00	80.10	0.87	1.20	12.30	14.00
.	.	.	.	.	.	.	.	.	.	.
Mean	1.26	1.50	2.04	1.80	581.42	84.00	0.44	1.60	18.00	10.30
Plutonium 238	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	-0.16	0.23	.	.	.	.
Second Quarter	.	.	.	.	-20.50	41.00	.	.	.	.
Third Quarter	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Mean	.	.	.	.	-10.33	20.50	.	.	.	.

(CONTINUED)

APPENDIX K
Alpha-Emitting Radionuclide Data Summary

Well No. Location	GW-061		GW-227		GW-243		GW-526		GW-615	
	BG		OLF		S3		S3		S3	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Plutonium 239	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	0.00	0.29	.	.	.	.
Second Quarter	.	.	.	.	41.00	120.00	.	.	.	.
Third Quarter	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
Mean	.	.	.	.	20.50	60.00	.	.	.	.

APPENDIX K
Alpha-Emitting Radionuclide Data Summary

Surface Water Location	BCK-00.63		BCK-04.55		BCK-09.40		BCK-11.97		NT-13		SS-1		SS-4	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Uranium 234	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	4.79	2.90	3.24	2.30	7.51	3.50	6.17	3.30	0.43	0.90	2.37	2.10	5.62	3.10
Second Quarter	5.93	3.30	2.09	1.90	2.16	1.90	10.50	4.20	0.00	1.50	0.48	1.00	1.74	1.70
Third Quarter	3.49	2.80	3.27	2.60	7.54	3.70	13.50	5.00	0.00	1.70	6.13	3.40	14.40	5.20
Fourth Quarter	8.67	4.00	6.26	3.20	32.90	7.50	23.00	6.30	0.44	0.87	16.80	5.20	13.20	4.90
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	5.72	1.60	3.71	1.30	12.53	2.30	13.29	2.40	0.22	0.60	6.45	1.70	8.74	2.00
Uranium 235	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.44	0.90	0.00	1.40	0.42	0.80	0.88	1.30	0.00	1.50	0.95	1.30	0.00	1.50
Second Quarter	0.91	1.30	0.00	1.40	0.43	0.90	2.09	1.90	0.00	1.50	0.95	1.30	1.31	1.50
Third Quarter	0.44	0.90	0.41	0.80	0.42	0.80	0.43	0.90	0.00	1.40	0.00	1.40	0.87	1.20
Fourth Quarter	0.91	1.80	0.42	1.40	3.03	2.60	0.00	1.70	-0.44	0.87	0.82	1.60	0.46	0.91
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.68	0.60	0.21	0.60	1.07	0.70	0.85	0.80	-0.11	0.70	0.68	0.70	0.66	0.70
Uranium 238	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	3.49	2.50	6.49	3.20	22.50	6.10	11.50	4.50	0.00	1.50	3.32	2.50	9.08	4.00
Second Quarter	11.40	4.60	3.34	2.40	3.46	2.40	23.50	6.30	0.00	1.50	4.75	3.00	6.10	3.30
Third Quarter	9.59	4.10	6.13	3.20	18.00	5.50	38.20	8.10	0.00	1.40	8.18	3.70	20.90	6.00
Fourth Quarter	21.00	6.30	18.40	5.70	82.60	12.00	42.10	8.60	-0.44	0.87	17.20	5.40	10.50	4.60
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	11.37	2.30	8.59	1.90	31.64	3.70	28.82	3.50	-0.11	0.70	8.36	1.90	11.65	2.30

(CONTINUED)

APPENDIX K
Alpha-Emitting Radionuclide Data Summary

Surface Water Location	SS-5		SS-6		SS-8	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Uranium 234	.	.	.	.	.	.
.	.	.	.	.	.	.
First Quarter	3.49	2.50	0.00	1.40	0.00	1.50
Second Quarter	2.28	2.00	0.42	0.80	0.43	0.90
Third Quarter	8.54	4.20	-0.41	0.80	-0.43	0.90
Fourth Quarter	2.59	2.10	0.87	1.20	0.00	1.40
.	.	.	.	.	.	.
Mean	4.22	1.40	0.22	0.50	0.00	0.60
Uranium 235	.	.	.	.	.	.
.	.	.	.	.	.	.
First Quarter	0.44	0.90	0.41	0.80	0.00	1.50
Second Quarter	2.74	2.20	0.00	1.40	0.00	1.50
Third Quarter	0.48	1.00	0.00	1.40	0.00	1.50
Fourth Quarter	0.00	1.50	0.00	1.50	0.00	1.40
.	.	.	.	.	.	.
Mean	0.91	0.70	0.10	0.70	0.00	0.70
Uranium 238	.	.	.	.	.	.
.	.	.	.	.	.	.
First Quarter	3.49	2.50	0.00	1.40	0.00	1.50
Second Quarter	10.00	4.30	0.42	0.80	0.00	1.50
Third Quarter	14.70	5.30	0.41	0.80	0.43	0.90
Fourth Quarter	2.59	2.40	-0.43	0.87	0.00	1.60
.	.	.	.	.	.	.
Mean	7.69	1.90	0.10	0.50	0.11	0.70

**BETA-EMITTING RADIONUCLIDE
DATA SUMMARY**

APPENDIX K
Beta-Emitting Radionuclide Data Summary

Well No. . Location	GW-061		GW-115		GW-227		GW-316		GW-364		GW-365		GW-366	
	BG		S3		OLF		SPI		OLF		OLF		OLF	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Technetium 99	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	57.00	1600.00	.	.	.	.	-422.00	1600.00	3500.00	1700.00	445.00	1600.00
Second Quarter	.	.	126.00	1600.00	.	.	.	.	114.00	1600.00	617.00	1600.00	-1940.00	1600.00
Third Quarter	9.22	650.00	.	.	-487.00	1600.00	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	9.22	650.00	91.50	1131.40	-487.00	1600.00	.	.	-154.00	1131.40	2058.50	1167.30	-747.50	1131.40
Strontium	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Second Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Third Quarter	23.70	5.50	.	.	-2.57	3.50	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	23.70	5.50	.	.	-2.57	3.50	.	.	.	.	.	.	.	.
Tritium	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Second Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Third Quarter	702.00	648.00	.	.	81.00	945.00	.	.	.	.	.	.	.	.
Fourth Quarter	1566.00	1107.00	.	.	.	.	135.00	810.00	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	1134.00	642.60	.	.	81.00	945.00	135.00	810.00	.	.	.	.	.	.

(CONTINUED)

APPENDIX K
Beta-Emitting Radionuclide Data Summary

Well No. Location	GW-367		GW-520		GW-526		GW-615		GW-636		GW-637		GW-638	
	OLF		OLF		S3		S3		OLF		OLF		OLF	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Technetium 99	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	-1930.00	1600.00	-2790.00	1600.00	.	.	.	.	-103.00	1600.00	137.00	1600.00	-1140.00	1500.00
Second Quarter	-1190.00	1600.00	-2760.00	1600.00	.	.	.	.	-1530.00	1500.00	-3380.00	1500.00	388.00	1600.00
Third Quarter	.	.	.	.	1100.00	1600.00	114.00	1600.00	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	-175.00	640.00	1600.00	1700.00	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	-1560.00	1131.40	-2775.00	1131.40	462.50	861.60	857.00	1167.30	-816.50	1096.60	-1621.50	1096.60	-376.00	1096.60
Strontium	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Second Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Third Quarter	.	.	.	.	-9.92	21.00	-2.67	22.00	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	0.71	3.80	144.00	11.00	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	.	.	.	.	-4.60	10.70	70.67	12.30	.	.	.	.	.	.
Tritium	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Second Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Third Quarter	.	.	.	.	83700.00	2700.00	324.00	810.00	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	27.00	270.00	594.00	864.00	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	.	.	.	.	41863.50	1355.40	459.00	591.30	.	.	.	.	.	.

(CONTINUED)

APPENDIX K
Beta-Emitting Radionuclide Data Summary

Well No. . Location	GW-645		GW-646		GW-647		GW-649	
	OLF		OLF		OLF		OLF	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Technetium 99	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
First Quarter	-525.00	1600.00	-674.00	1600.00	-353.00	1600.00	-1540.00	1500.00
Second Quarter	959.00	1600.00	-274.00	1600.00	-320.00	1600.00	-22.80	1600.00
Third Quarter	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
Mean	217.00	1131.40	-474.00	1131.40	-336.50	1131.40	-781.40	1096.60
Strontium	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	.	.	.	.
Second Quarter	.	.	.	.	.	.	.	.
Third Quarter	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
Mean	.	.	.	.	.	.	.	.
Tritium	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
First Quarter	.	.	.	.	.	.	.	.
Second Quarter	.	.	.	.	.	.	.	.
Third Quarter	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
Mean	.	.	.	.	.	.	.	.

APPENDIX K
Beta-Emitting Radionuclide Data Summary

Well No. Location	GW-243		GW-306		GW-307		GW-308		GW-309		GW-310		GW-311	
	S3		RS		RS		RS		RS		RS		RS	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Technetium 99	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	68500.00	2900.00	2040.00	1600.00	.	.	.	.	1880.00	1600.00	.	.	.	.
Second Quarter	68900.00	3000.00	-434.00	1600.00	.	.	.	.	-776.00	1600.00	.	.	.	.
Third Quarter	68700.00	3000.00	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	80400.00	3200.00	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	71625.00	1513.50	803.00	1131.40	.	.	.	.	552.00	1131.40	.	.	.	.
Strontium	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	0.56	1.70	-0.66	1.50	.	.	.	.	2.07	1.80	.	.	.	.
Second Quarter	225.00	51.00	-29.50	31.00	.	.	.	.	-10.10	32.00	.	.	.	.
Third Quarter	241.00	42.00	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	147.00	11.00	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	153.39	16.70	-15.08	15.50	.	.	.	.	-4.01	16.00	.	.	.	.
Tritium	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	4590.00	1080.00	297.00	891.00	270.00	891.00	378.00	891.00	-135.00	864.00	-108.00	864.00	-81.00	864.00
Second Quarter	4320.00	810.00	189.00	891.00	351.00	594.00	1026.00	756.00	243.00	594.00	486.00	675.00	-54.00	567.00
Third Quarter	4050.00	610.00	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	5400.00	1080.00	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	4590.00	477.90	243.00	629.10	310.50	534.60	702.00	583.20	54.00	523.80	189.00	548.10	-67.50	515.70

(CONTINUED)

APPENDIX K
Beta-Emitting Radionuclide Data Summary

Well No. Location	GW-243		GW-306		GW-307		GW-308		GW-309		GW-310		GW-311	
	S3		RS		RS		RS		RS		RS		RS	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Cesium 137	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	.	.	0.02	0.03	.	.	.	.	0.00	0.03	.	.	.	.
Second Quarter	.	.	14.50	31.80	.	.	.	.	0.89	36.30	.	.	.	.
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	.	.	7.26	15.90	.	.	.	.	0.45	18.20	.	.	.	.
Iodine 125+129	.	.	.	.	.	.	.	.	.	.	.	.	.	.
First Quarter	2.70	54.00	0.27	20.52	2.70	40.50	0.27	19.17	2.70	43.20	0.27	21.06	0.27	20.25
Second Quarter	2.70	54.00	2.70	35.10	0.27	20.25	2.70	40.50	0.27	19.98	2.70	37.80	2.70	40.50
Third Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Fourth Quarter	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	2.70	37.80	1.48	21.60	1.48	21.60	1.48	21.60	1.48	24.30	1.48	21.60	1.48	21.60

(CONTINUED)

APPENDIX K
Beta-Emitting Radionuclide Data Summary

Well No. . Location	GW-312		GW-648	
	RS		RS	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Technetium 99	.	.	.	.
.	.	.	.	.
First Quarter	.	.	764.00	1500.00
Second Quarter	.	.	-1470.00	1600.00
Third Quarter	.	.	.	.
Fourth Quarter	.	.	.	.
.	.	.	.	.
Mean	.	.	-353.00	1096.60
<hr/>				
Strontium	.	.	.	.
.	.	.	.	.
First Quarter	.	.	.	.
Second Quarter	.	.	.	.
Third Quarter	.	.	.	.
Fourth Quarter	.	.	.	.
.	.	.	.	.
Mean	.	.	.	.
<hr/>				
Tritium	.	.	.	.
.	.	.	.	.
First Quarter	-108.00	864.00	378.00	891.00
Second Quarter	1053.00	729.00	999.00	675.00
Third Quarter	.	.	.	.
Fourth Quarter	.	.	.	.
.	.	.	.	.
Mean	472.50	564.30	688.50	558.90

(CONTINUED)

APPENDIX K
Beta-Emitting Radionuclide Data Summary

Well No. . Location	GW-312		GW-648	
	RS		RS	
	pCi/L	CE(+/-)	pCi/L	CE(+/-)
Cesium 137	.	.	.	.
.	.	.	.	.
First Quarter	.	.	.	.
Second Quarter	.	.	.	.
Third Quarter	.	.	.	.
Fourth Quarter	.	.	.	.
.	.	.	.	.
Mean	.	.	.	.
Iodine 125+129	.	.	.	.
.	.	.	.	.
First Quarter	2.70	37.80	2.70	35.10
Second Quarter	2.70	32.40	0.27	20.25
Third Quarter	.	.	.	.
Fourth Quarter	.	.	.	.
.	.	.	.	.
Mean	2.70	24.30	1.48	21.60

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