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Informal Report

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Uranium Hydrogeochemical and Stream Sediment Reconnaissance of the Arminto NTMS Quadrangle, Wyoming, Including Concentrations of Forty-Three Additional Elements

MASTER

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University of California

U. S. DEPARTMENT OF ENERGY
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Uranium Hydrogeochemical and Stream Sediment Reconnaissance of the Arminto NTMS Quadrangle, Wyoming, Including Concentrations of Forty-Three Additional Elements

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URANIUM HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE OF THE ARMINTO NTMS QUADRANGLE, WYOMING, INCLUDING CONCENTRATIONS OF FORTY-THREE ADDITIONAL ELEMENTS

by

Terrance L. Morgan

ABSTRACT

During the summers of 1976 and 1977, 570 water and 1249 sediment samples were collected from 1517 locations within the 18 000-km^2 area of the Arminto NTMS quadrangle of central Wyoming by private contractors for the Los Alamos Scientific Laboratory. Water samples were collected from wells, springs, streams, and artifical ponds; sediment samples were collected from wet and dry streams, springs, and wet and dry ponds. All water samples were analyzed for 13 elements, including uranium, and each sediment sample was analyzed for 43 elements, including uranium and thorium. All results of these analyses, including field data recorded by the samplers, are listed in Appendixes I-A and I-B.

Uranium concentrations in water samples range from below the detection limit to 84.60 parts per billion (ppb) with a mean of 4.32 ppb. All water sample types except pond water samples were considered as a single population in interpreting the data. Pond water samples were excluded due to possible concentration of uranium by evaporation. Most of the water samples containing greater than 20 ppb uranium grouped into six clusters that indicate possible areas of interest for further investigation. One cluster is associated with the Pumpkin Buttes District, and two others are near the Kaycee and Mayoworth areas of uranium mineralization. The largest cluster is located on the west side of the Powder River Basin and is associated with Triassic age rocks. One cluster is located in the central Big Horn Basin and another is in the Wind River Basin; both are in areas underlain by favorable host units.

Uranium concentrations in sediment samples range from 0.08 parts per million (ppm) to 115.50 ppm with a mean of 3.50 ppm. Two clusters of sediment samples over 7 ppm were delineated. The first, containing the two highest-concentration samples, corresponds with the Copper Mountain District. Many of the high uranium concentrations in samples in this cluster may be due to contamination from mining or prospecting activity upstream from the sample sites. The second cluster encompasses a wide area in the Wind River Basin along the southern boundary of the quadrangle.

I. INTRODUCTION

This report presents uranium and other elemental data resulting from the Hydrogeochemical and Stream Sediment Reconnaissance (HSSR) of the Arminto National Topographic Map Series (NTMS) quadrangle, Wyoming, by the Los Alamos Scientific Laboratory (LASL). The LASL is responsible for conducting the HSSR primarily in the Rocky Mountain states of New Mexico, Colorado, Wyoming, and Montana and in Alaska (Sharp, 1977). This study was conducted as part of the United States Department of Energy's National Uranium Resource Evaluation (NURE), which is designed to provide improved estimates of the availability and economics of nuclear fuel resources and to make available to industry information for use in the development and production of uranium resources. The HSSR data will ultimately be integrated with data from other NURE programs (e.g., airborne radiometric surveys and geological investigations) to complete the entire NURE program by 1987.

Totals of 570 water and 1249 sediment samples were collected from 1517 locations in the Arminto NTMS quadrangle. Water samples were collected from wells, springs, streams, and ponds; sediment samples were collected from streams, springs, and ponds. Except for seven duplicate samples collected August 29, 1979, all samples were collected by contractors during two separate time periods (Fig. 1). The north-central part of the quadrangle, along with a larger area north of the quadrangle, was sampled by a private contractor between April and July of 1976. A previous LASL HSSR report, which presents uranium analyses only (Morris, 1977), has been issued for this area. The northwest quarter of the Arminto quadrangle was sampled between July and November 1976, as a portion of a sampling project throughout the Big Horn Basin. Between August and November 1977, the southern half and the northeastern corner of the quadrangle were sampled along with the Casper NTMS quadrangle to the south (Fig. 1).

This report contains results of analyses for uranium and 12 other elements in the water samples (Appendix I-A) and uranium and 42 other elements in the sediment samples (Appendix I-B). The uranium data will be the primary topic of discussion. Also included are a list of uranium occurrences (Appendix II) and histograms showing the distribution of thorium concentrations in sediment samples (Appendix III). Standardized field, analytical, and data base management procedures were followed in all phases of the study. These procedures are described briefly in Appendix IV-A and in reports by Sharp (1977), Hues et al (1977), Sharp and Aamodt (1978), Cheadle (1978), and Kosiewicz (1979). The data presented in Appendix I are available on magnetic tape from: GJOIS Project, UCC-ND, Computer Applications Department, 4500 North Building, Oak Ridge National Laboratory, P. O. Box X, Oak Ridge, Tennessee 37830.

Plates in the rear pocket of this report include overlays for sample locations (Plate I), uranium concentrations in waters (Plate II), conductivities in waters (Plate III), uranium concentrations in sediments (Plate IV), and thorium concentrations in sediments (Plate V), all of which are 1:250 000 scale and may be used in conjunction with the Arminto NTMS quadrangle (USGS, 1962) and Arminto geologic map (Love et al, 1978).

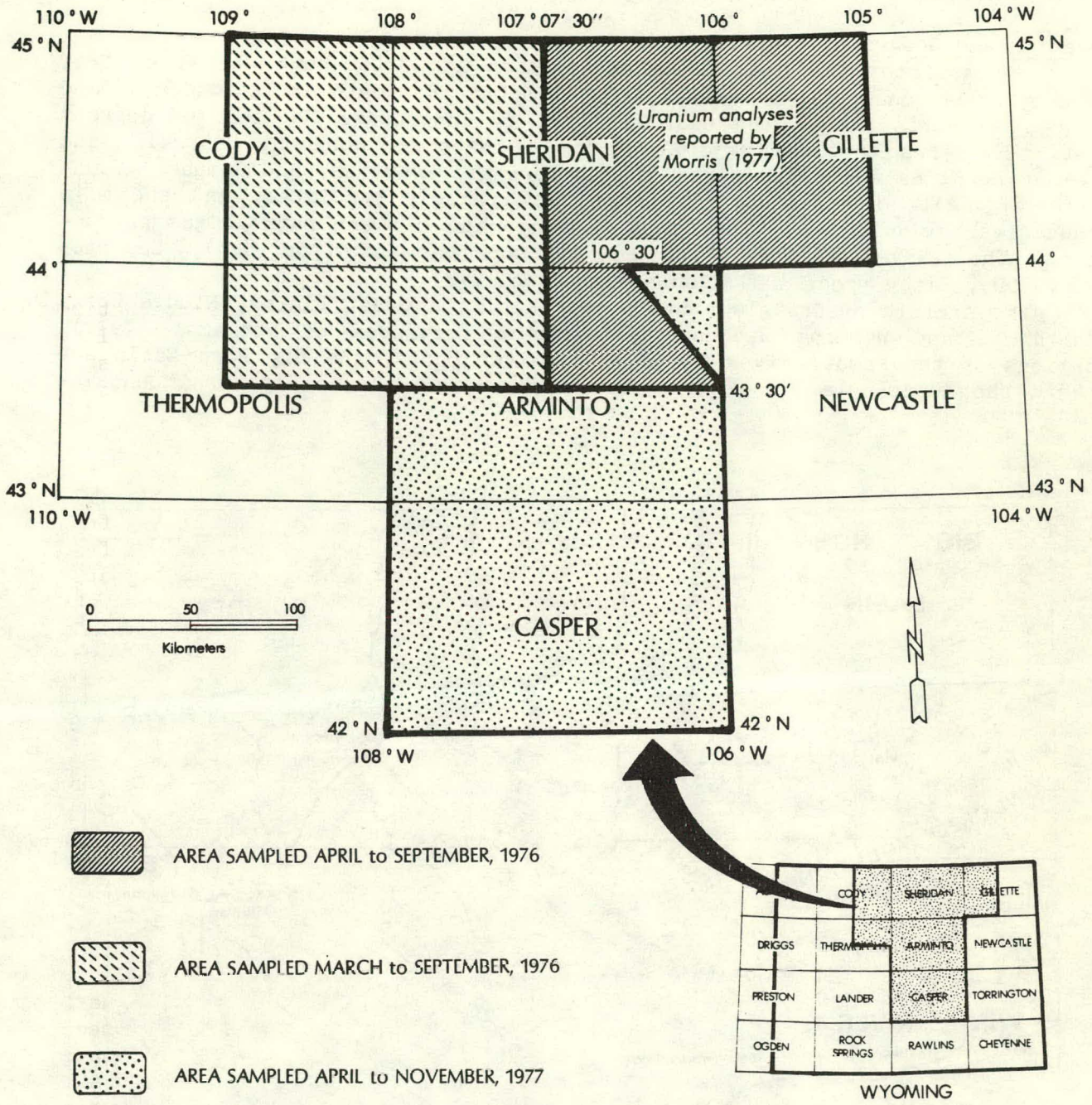


Fig. 1. Location map showing areas of sampling contracts for the Arminto NTMS quadrangle, Wyoming, and adjacent quadrangles.

II. DESCRIPTION OF THE STUDY AREA

Location and Geographic Setting

The Arminto NTMS quadrangle encompasses an 18 000-km^2 area in central Wyoming. The quadrangle is bounded on the south and north by latitudes 43 and 44 degrees north and on the east and west by longitudes 106 and 108 degrees west. The area includes major portions of Natrona, Johnson, Washakie, and Fremont counties and small parts of Hot Springs, Converse, and Campbell Counties (Fig. 2). The Arminto quadrangle is sparsely populated, and the main industries are cattle raising, some farming, and oil and natural gas production. The largest towns (1970 census) are Midwest (pop. 825), Edgerton (pop. 350), Linch (pop. 300), and Kaycee (pop. 272).

The Arminto quadrangle contains parts of the Great Plains, Middle Rocky Mountains, and Wyoming Basins physiographic provinces of Fenneman (1931). Portions of the Powder River Basin, Wind River Basin, and Big Horn Basin are within the quadrangle, as well as the southern end of the Big Horn Mountains

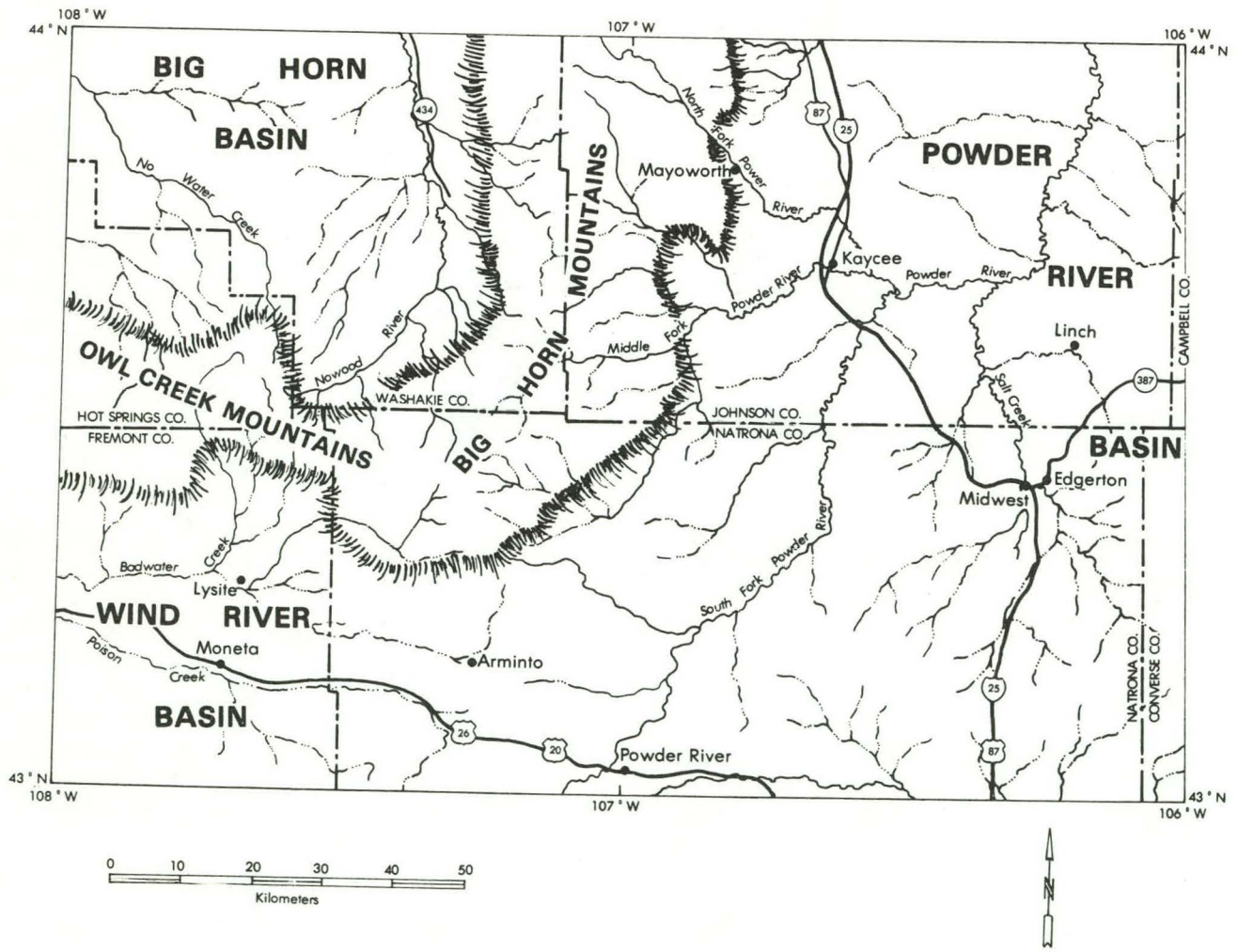


Fig. 2. Major drainages, physiographic features, counties, and towns in the Arminto quadrangle, Wyoming.

and the eastern end of the Owl Creek Mountains. The Big Horn Mountains are a north-trending group of rugged mountains with glaciated peaks at elevations up to 2776 m. The plains lie at altitudes between 1250 m (northwest corner) and about 1800 m (Big Horn Mountains foothills) and are characterized by local badland-like topography, rolling grass-covered hills, and deeply eroded gullies.

Climate

The climate of the Arminto quadrangle ranges from semiarid in the Big Horn and Owl Creek Mountains to arid in the central portions of the basins. Annual precipitation, most of which falls between late spring and early fall, is approximately 300 mm in the basins and up to 650 mm in the Big Horn Mountains. For the basins, temperatures often reach 32°C in the summer months, but average around 23°C. Lows of -37°C have been recorded in the winter with average temperatures around -4°C. Average annual temperature is about 7°C (Weather Bureau, 1965). General weather conditions at the time of sampling were recorded by the samplers and are included in the data listings of Appendix I.

III. GEOLOGY

Geologic Setting and Structure

The Arminto quadrangle contains a diversity of rock types and structures. A generalized geologic map (Fig. 3) has been condensed from the geologic map of the quadrangle (1:250 000 scale) available from the USGS (Love et al, 1978). Rock types exposed range in age from Precambrian to Recent, and represent all geologic periods except the Silurian and Devonian (Table I). A brief description of the major features and important rock units follows. More detailed descriptions of structures and rock units may be found in Wyoming Geological Association Guidebooks for the years 1947, 1958, 1969, 1970, 1975, 1976, and 1978, and in the below-referenced articles.

Portions of two major mountain ranges (the Big Horn and Owl Creek Mountains) and parts of three structural basins (the Powder River, Big Horn, and Wind River Basins) are within the area (Fig. 4). All the major structural features are the direct result of Late Cretaceous to Early Tertiary (Laramide) orogeny. In the Big Horn uplift, Paleozoic, Mesozoic, and Cenozoic strata generally conceal the Precambrian granitic and metamorphic core (Darton, 1906). Several small anticlines are found along the east side of the range, especially near Kaycee and Mayoworth (Richardson, 1961), and many small monoclines are found along the west flanks (Thom, 1947; Hoppin and Jennings, 1971). The southern end of the range plunges southwestward and merges with the eastern end of the Owl Creek uplift. The Owl Creek uplift is also an uplifted series of Precambrian granitic and metamorphic blocks exhibiting up to 10 000 m of structural relief with the adjacent Wind River Basin. Graben structures are found along the crest of the asymmetrical uplift, and reverse faults are found along the southern margin (Wise, 1963; Woodward, 1957).

During Laramide activity, the basins subsided and filled with several thousand meters of Late Cretaceous to Early Tertiary sediments derived from adjacent uplifts. These nonmarine formations consist primarily of fine-grained sandstones and interbedded multicolored claystones, mudstones, shales,

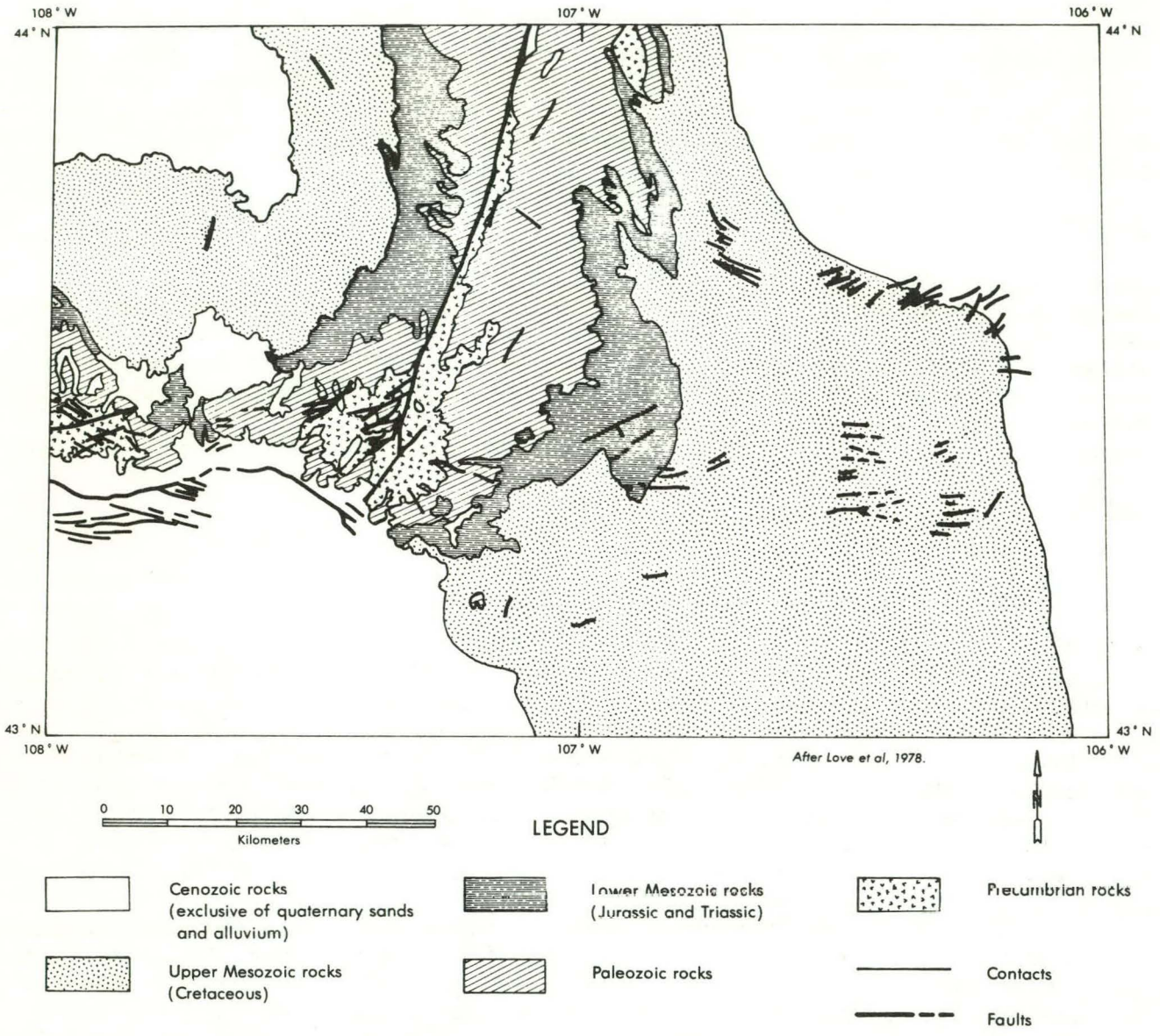


Fig. 3. Generalized geology of the Arminto quadrangle, Wyoming.

and a few coal beds. They are the most important host units for uranium mineralization in the region. The predominantly volcanic Oligocene White River formation has been hypothesized as a source for much of the uranium in the Fort Union and Wasatch formations (Love, 1952; Mrak, 1958; Sharp and Gibbons, 1964). Most of the White River formation and stratigraphically higher units have been subsequently removed by erosion.

The Powder River Basin, occupying approximately the eastern one-third of the quadrangle, is an asymmetrical synclinal structure with a gently dipping eastern limb and a steeply dipping western limb. The basin axis trends generally north-northwest (Fig. 4). In the Powder River Basin, the most important uranium-hosting units are the Wasatch and Fort Union formations.

TABLE I

GENERALIZED STRATIGRAPHIC COLUMNS OF UNITS OCCURRING WITHIN THE ARMINTO QUADRANGLE, WYOMING*

Age	West side of Powder River Basin	Big Horn Basin	Wind River Basin
Miocene	Arikaree fm.	Arikaree fm.	
Oligocene	White River fm.	White River fm.	White River fm.
Eocene	Wasatch fm.	Tatman fm. Willwood fm.	Wind River fm.
Paleocene	Fort Union fm.	Fort Union fm.	Fort Union fm.
Upper Cretaceous	Lance fm. Fox Hills sandstone Mesaverde fm. Cody shale Frontier fm.	Lance fm. Meeteetse fm. Mesaverde fm. Cody shale Frontier fm.	Lance fm. Meeteetse fm. Mesaverde fm. Cody shale Frontier fm.
Lower Cretaceous	Mowry shale Thermopolis shale Cloverly fm.	Mowry shale Thermopolis shale Cloverly fm.	Mowry shale Thermopolis shale Cloverly fm.
Jurassic	Morrison fm. Sundance fm. Gypsum Spring fm.	Morrison fm. Sundance fm. Gypsum Spring fm.	Morrison fm. Sundance fm. Gypsum Spring fm.
Triassic	Chugwater fm.	Chugwater fm. Dinwoody fm.	Chugwater fm.
Permian	Goose Egg fm.	Phosphoria fm.	Phosphoria/Goose Egg fms.
Pennsylvanian	Tensleep sandstone Amsden fm.	Tensleep sandstone Amsden fm.	Tensleep sandstone Amsden fm.
Mississippian	Madison limestone	Madison limestone	Madison limestone
Ordovician	Bighorn dolomite	Bighorn dolomite	Bighorn dolomite
Upper Cambrian	Gallatin fm. Gros Ventre fm.	Gallatin fm. Gros Ventre fm.	Gallatin fm. Gros Ventre fm.
Middle Cambrian	Flathead sandstone	Flathead sandstone	Flathead sandstone
Precambrian	metamorphic and igneous complex		

*Compiled from Hodson et al (1973), Lowry et al (1976), and Whitcomb and Lowry (1968).

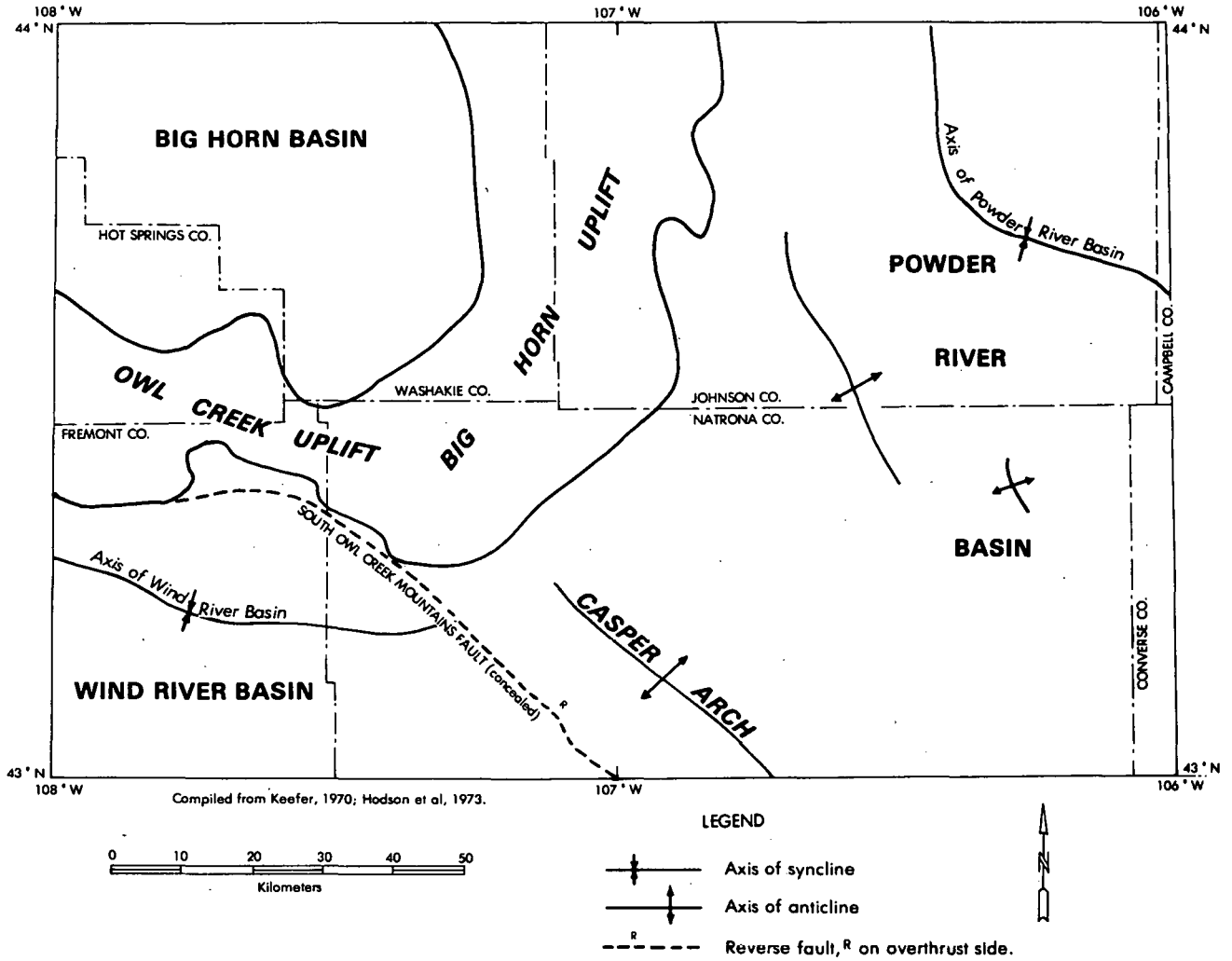


Fig. 4. Generalized structure of the Arminto quadrangle, Wyoming.

The southern end of the Big Horn Basin occupies the northwest corner of the Arminto quadrangle. The structurally deepest part of the basin lies to the north of the quadrangle (Thom, 1947; Lowry et al, 1976). As in the other basins, much of the Tertiary sediments that filled the basin, including most of the lacustrine Eocene Tatman formation and volcanics from the Absaroka volcanic field to the west of the basin, were removed by subsequent erosion (Thomas, 1965).

The Wind River Basin, to the south of the Owl Creek uplift, is an asymmetrical basin with its deepest part lying just south of the Owl Creek uplift. The eastern edge of the basin is defined by the South Owl Creek Mountains fault, a major reverse fault that also marks the western edge of the Casper arch and extends along the south side of the Owl Creek uplift (Fig. 4). This fault is concealed in most places by the onlapping Tertiary strata that were accumulating in the basin during the time the fault was active. A displacement of several thousand meters has been noted along this fault (Keefer, 1970). Within the Wind River Basin, the Wind River formation is the most important

host for uranium, though the major occurrences within this unit lie in the Gas Hills District to the south of the quadrangle.

The Casper arch is a major, but not deeply eroded, structural upwarp, about 80 km wide, that separates the Wind River and Powder River Basins (Fig. 4). The oldest unit exposed in the arch is the Middle Cretaceous Cody shale. Strata on the west limb are vertical to overturned along the South Owl Creek Mountains fault, while strata on the east limb dip at moderate angles toward the Powder River Basin (Keefer, 1970).

Hydrology

All drainages in the Arminto quadrangle are tributaries of the Missouri River system. The major surface drainages are the north-flowing Powder River and Salt Creek in the Powder River Basin, the north- and northwest-flowing Nowood River and No Water Creek in the Big Horn Basin, and the west-flowing Badwater and Poison Creeks in the Wind River Basin (Fig. 2). Tributaries to these streams, from which the majority of the stream samples were collected, are dry during most of the year. Surface water quality is highly variable, but is generally best in the smaller tributaries that drain the mountains (Hembree et al, 1952).

Ground water conditions in the Powder River, Big Horn, and Wind River Basins are very similar. Ground water is available in most places in the basins at depths less than 100 m. Artesian wells are relatively common owing to the favorable structure resulting from the uplift of the Big Horn and Owl Creek Mountains. Quality of the water, however, is generally not good; high dissolved-solids contents and salts render the water in many places unsuitable even for stock use. Water is generally of the sodium bicarbonate type, though all types are found. Quality generally deteriorates basinward. Principal aquifers include the Arikaree, Wasatch, and Fort Union formations in the Powder River Basin; the Willwood, Tatman, and Fort Union formations in the Big Horn Basin; and the Arikaree, Wind River, and Fort Union formations in the Wind River Basin, though older aquifers (e.g., Lance formation, Fox Hills sandstone, Cloverly formation, Tensleep sandstone, or Flathead sandstone) are sometimes tapped (Kohout, 1957; Whitcomb et al, 1966; Whitcomb and Lowry, 1968; Crist and Lowry, 1972; Hodson et al, 1973; Lowry et al, 1976).

Uranium Occurrences

A list of uranium occurrences in the Arminto quadrangle is given in Appendix II. Most of them lie within the uranium districts and areas shown in Fig. 5. The boundaries of these areas were arbitrarily drawn, though the names are those used by Elevatorski (1976). Also shown are occurrences outside the boundaries of a district or area, along with the number of the occurrence in Appendix II. Except as otherwise referenced, most of the following information on uranium occurrences, mineralization, and production has been taken from Elevatorski (1976).

The Arminto quadrangle contains the Copper Mountain District and the western edge of the Pumpkin Buttes District. Other districts of the southern Powder River Basin, the Turnercrest, Monument Hill, and Highland Flats Districts, lie to the east and south of the Pumpkin Buttes District. The Gas Hills District, the largest uranium-producing district in Wyoming, lies to the south of the quadrangle along the Natrona/Fremont county line.

The Copper Mountain District, in the western portion of the quadrangle (Fig. 5), has had ore production from mines located in the foothills to the south of Copper Mountain. Production was primarily from sandstones of the

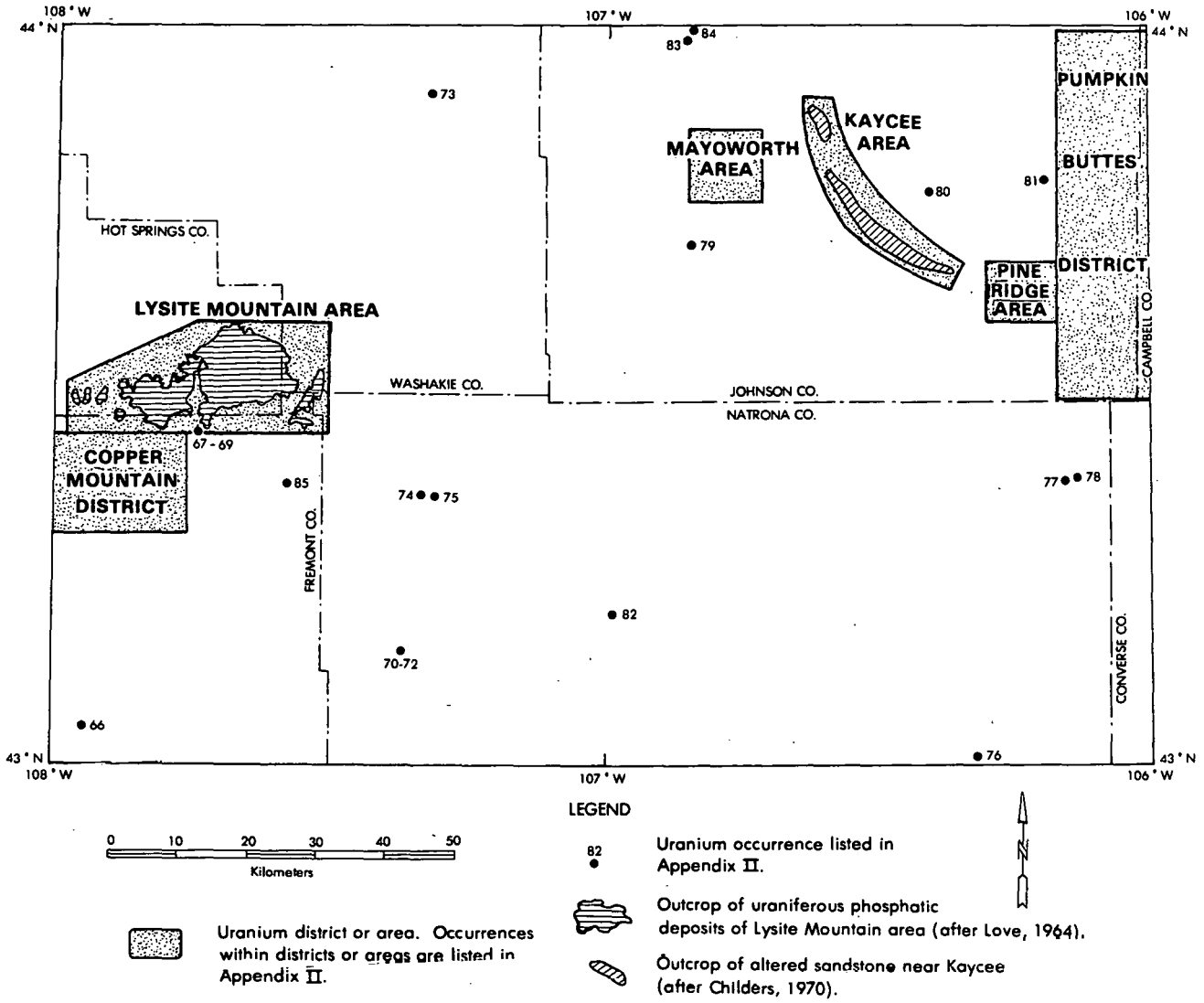


Fig. 5. Uranium districts, areas, and miscellaneous occurrences in the Arminto quadrangle, Wyoming.

Eocene Wind River formation. Recent exploration activity is aimed at developing a deposit that occurs in Precambrian granite and metamorphic rocks on the south slopes of Copper Mountain (Yellich et al, 1978).

The Pumpkin Buttes District, the western portion of which is within the Arminto quadrangle (Fig. 5), was discovered in 1951 (Love, 1952), and major uranium production occurred from 1954 to 1967. Mineralization occurs in arkosic sandstones of the Wasatch formation, primarily as shell-shaped deposits at or down dip of the contact with reddish, altered sandstones. Mineralization also occurs as small high-grade concretionary deposits within the reddish sandstone.

The Pine Ridge area immediately to the west of the Pumpkin Buttes district has had previous uranium production from three mines. Mineralization

occurs in a fine-grained carbonaceous sandstone unit of the Paleocene Fort Union formation.

Uranium mineralization in the Kaycee area has been described by Childers (1970). The mineralization in this area is similar to that found in the southern Powder River Basin districts, occurring in association with carbonaceous material down dip of hematite-stained (oxidized) zones in sandstone units of the Fort Union and Wasatch formations. The area of outcrop of the altered sandstones is shown in Fig. 5.

Uranium mineralization near Mayoworth (Fig. 5) occurring in oolitic limestone of the Sundance formation (Jurassic) has been described by Guilinger and Theobald (1957). The uranium occurs primarily as a coating or filling in joints and fractures, but also replaces calcite in the oolites or cement. Samples collected range from 0.017% to 0.32% uranium, though economic deposits are considered unlikely (Guilinger and Theobald, 1957).

Uranium in phosphatic lake bed deposits of Eocene age near Lysite Mountain has been described by Love (1964). The area of outcrop of the phosphatic beds is shown as the stippled area on Fig. 5. The uranium is probably not economic, except as a possible byproduct; 21 samples collected by Love (1964, Table 13) averaged approximately 0.012% uranium.

Other Mineral Occurrences

Little production of economic minerals other than uranium is reported for the Arminto quadrangle. Bentonite is mined from the Mowry shale, Thermopolis shale, and Frontier formation at several localities in a belt that lies to the east of the Big Horn Mountains (Wendell et al, 1976). Taconite (iron silicate) deposits are known to crop out in the Owl Creek Mountains near Copper Mountain, with an average grade of 31.6% iron (Hausel and Holden, 1978). Feldspar is presently produced from two mines in the Copper Mountain area (Hausel and Holden, 1978), and copper, feldspar, mica, and garnet were produced from several now-abandoned mines near Copper Mountain (Elevatorski, 1975). Coal is found in mineable quantities in the Fort Union and Wasatch formations, but present mining activity is small (Wendell et al, 1976).

IV. PRESENTATION OF ANALYTICAL DATA

Only the analytical results and statistical summaries for uranium are treated herein. Listings of field data and analytical results for uranium and 12 other elements in water samples are in Appendix I-A, and field data and analytical results for uranium, thorium, and 41 other elements in sediment samples are in Appendix I-B. Note that, in Appendix I, no field data is listed for samples W08672 through W08775 due to the loss of the field data forms. Sample types were determined from field maps for these locations. Histograms showing the distribution of thorium concentrations in sediment samples are in Appendix III. Descriptions of the sample collection procedures, the analytical methods used by the LASL, and the codes to the data listings of Appendix I are contained in Appendix IV. Plates included in the rear pocket consist of a sample location overlay (Plate I), a uranium concentration overlay for waters (Plate II), a conductivity overlay for waters (Plate III), a uranium concentration overlay for sediments (Plate IV), and a thorium concentration overlay for sediments (Plate V). All overlays are 1:250 000 scale for use in conjunction with both the NTMS quadrangle map (USGS, 1962) and geologic map (Love et al, 1978) of the Arminto quadrangle.

In this report, only water samples containing uranium concentrations over 20 parts per billion (ppb), those nearby in the intermediate range of 10-20 ppb, and sediment samples containing over 7 parts per million (ppm) are included in the following discussion. These values were arbitrarily selected, and the possible significance of the remaining samples should not be discounted, as subtle variations in concentration are often useful in exploration. The following sections, therefore, are not intended to be a rigorous interpretation of the data.

More detailed treatment of the data is left to the reader, as many different evaluation methods are possible. For example, contouring of the uranium values and a study of the closed contour areas is a useful method that has been used (Sharp and Hill, 1978; Warren et al, 1978). Further study may indicate elements other than uranium that may be useful as pathfinders for uranium mineralization (e.g., Warren et al, 1979). Considering samples from different source areas, for example mountains vs basins, as separate populations has been shown to be a useful method for delineating additional areas of interest (e.g., Bolivar, Hill, et al, 1979). In this study, spring water samples were collected predominantly from mountain sources and have the lowest average uranium concentration of all water sample types. Considering these as a separate population may show areas of interest in mountainous areas that may otherwise be overlooked.

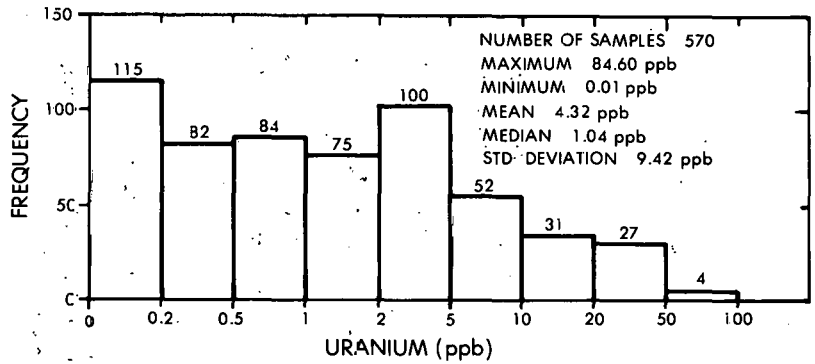
Uranium Concentrations in Water Samples

A total of 570 water samples was collected from 250 wells, 183 springs, 81 streams, and 56 ponds. Histograms and statistical summaries showing the distribution of uranium concentrations for all sample types and for each sample type separately are given in Fig. 6. As explained in Appendix IV-A, two different lower detection limits for uranium concentrations are reported for the water samples from the Arminto quadrangle. For sample numbers W08604 and lower (i.e., samples collected in 1976), the detection limit is 0.2 ppb uranium. For samples W08605 and higher, samples with uranium contents below 0.2 ppb were concentrated to give a lower detection limit of 0.02 ppb. Samples with uranium concentrations below these detection limits are reported in Appendix I-A as 0.1 ppb and 0.01 ppb, respectively.

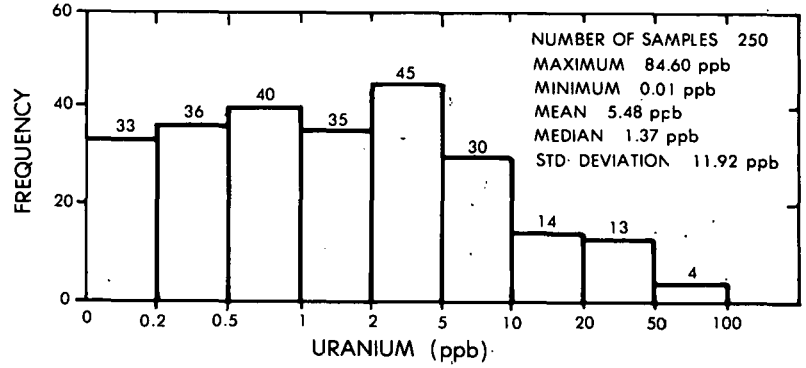
Six "clusters" of water sample locations that indicate possible areas of interest were chosen for discussion purposes and are shown on Fig. 7. Clusters were chosen to include two or more sample sites within a similar geologic and structural area that contain uranium concentrations greater than 20 ppb uranium (5% of the water sample population). Discussion is limited to the possible significance of these samples and those in the intermediate range of 10-20 ppb that cluster with them. The samples containing greater than 20 ppb uranium, corresponding to the largest interval on Plate I, are listed in Table II.

Pond water samples were not included in the selection or evaluation of clusters. Pond samples in general have a higher uranium concentration (mean of 6.12 ppb) than other surface sample types (Fig. 6), most probably due to the concentration of uranium and dissolved solids by evaporation. Furthermore, ponds were sampled only in the northern half of the quadrangle (1976 sampling contracts, Fig. 1). For these reasons, pond water samples were excluded from further discussion.

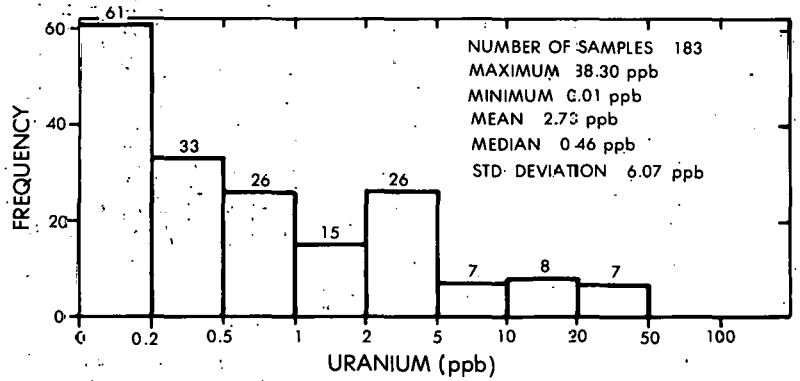
Another factor that may contribute to high uranium concentrations in waters is uranium ion complexing. Langmuir (1978) reports that the solubility of uranium minerals in the presence of carbonates or phosphates increases by several orders of magnitude due to the formation of uranyl carbonate complexes.



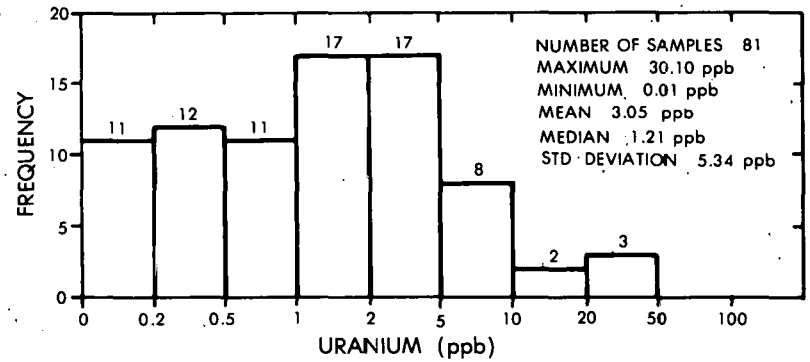
a. All waters



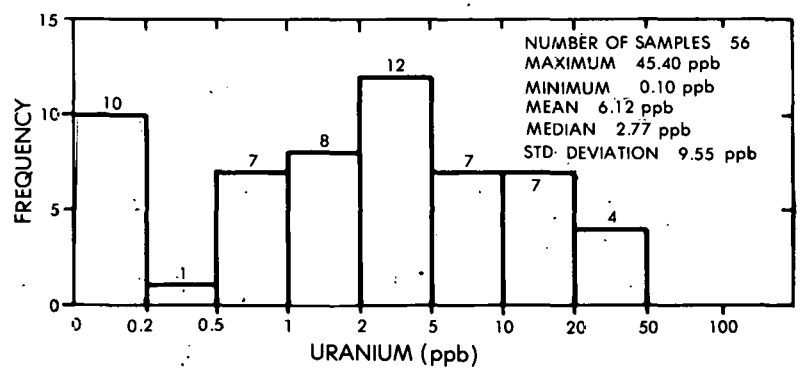
b. Well water



c. Spring water



d. Stream water



e. Artificial pond water

Fig. 6. Histograms and statistical data for uranium concentrations in water samples from the Arminto quadrangle, Wyoming.

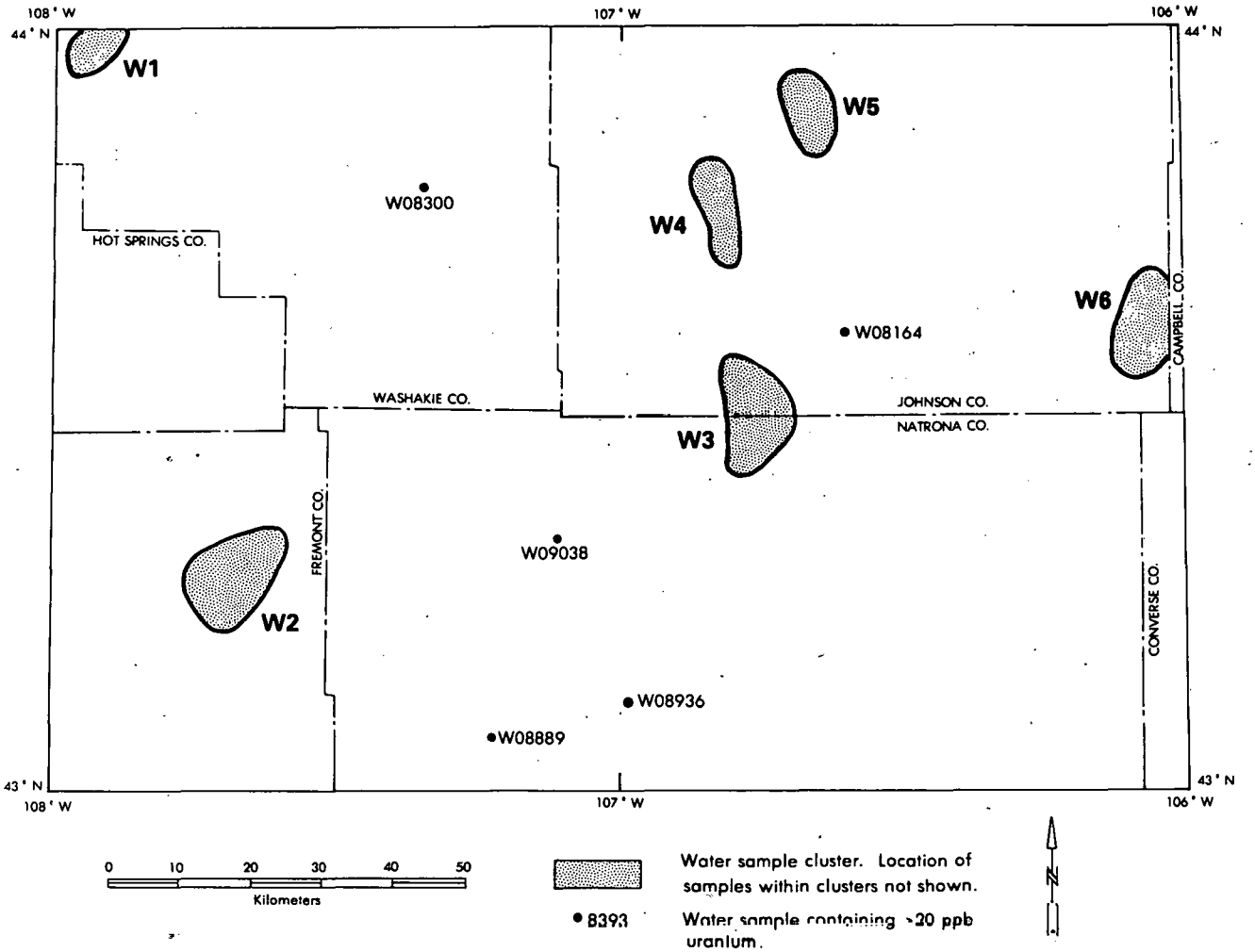


Fig. 7. Location of water sample clusters and individual samples containing > 20 ppb uranium in the Arminto quadrangle, Wyoming.

Therefore, complexing may be a significant factor in high uranium concentrations in waters from areas of carbonate rocks or in waters that have been in residence a long time.

Cluster W1 (Fig. 7) is located in the extreme northwest corner of the quadrangle in the Big Horn Basin. This cluster contains three ground water samples with >20 ppb uranium (Table II). No known uranium occurrences are nearby. Because of the scarcity of wells in this area, sample density is low and only one intermediate (10-20 ppb) supporting uranium value is associated with this cluster. The Lower Eocene Willwood formation, a series of sandstones, claystones, and mudstones that are time-equivalent to the Wind River and Wasatch formations, is exposed in the area.

Cluster W2, located in the Wind River Basin, contains four well water samples containing >10 ppb uranium, two of which contain >20 ppb. These were collected in an area underlain by the Wind River formation. No known uranium occurrences are nearby. This cluster may not be indicative of a single area of interest, since samples in this cluster are relatively separated.

TABLE II

WATER SAMPLES HAVING URANIUM CONCENTRATIONS >20 PPB FROM THE ARMINTO QUADRANGLE, WYOMING

Sample Location Number	Sample Type [a]	Geologic Formation [b]	Uranium Concentration (ppb)	Conductivity (µmho/cm)	Remarks
W08346	Well	Qa(Twl)	24.30	4400	Cluster W1: Located in central part of Big Horn Basin.
W08347	Spring	Qa(Twl)	25.90	42000	
W08354	Well	Qa(Twl)	39.00	2700	
W08609	Well	Twdr	46.26	6000	Cluster W2: Cluster also contains two samples with uranium concentrations 10-14 ppb. Poor sample density in area of cluster.
W09439	Well	Twdr	25.18	500	
W08158	Stream	Kf	24.40	31500	Cluster W3: Ground water samples are from heads of small drainage area east and down dip of the Red Wall.
W08196	Spring	Jsg	20.10	500	
W08679	Spring	PPcg	29.14	---	
W08683	Spring	PPcg	27.22	---	
W08684	Well	PPcg	28.77	---	
W08216	Well	Jsg/PM	23.50	5500	Cluster W4: Uranium occurrences located to west in Mayoworth area. Possibly associated with other occurrence to south (occurrence 79).
W08266	Well	PPcg	40.90	2500	
W08268	Well	PM	41.70	2700	
W08269	Well	PM	40.30	3000	
W08083	Spring	Klfl	38.30	1500	Cluster W5: Cluster lies just to west of trend of uraniferous sandstones of Kaycee area. Radiometric anomaly 19 (geoMetrics, 1979) is on east side of cluster.
W08085	Well	Klfl	84.60	460	
W08086	Well	Tfu	39.20	1400	
W08088	Well	Kl	72.80	800	
W08091	Well	Kl	66.00	7500	
W09319	Well	Tw	31.88	700	Cluster W6: Associated with many uranium occurrences in Pumpkin Buttes District. Radiometric anomaly 8 (geoMetrics, 1979) located in cluster.
W09322	Well	Tw	24.62	550	
W08300	Stream	Kmt	25.80	2400	Isolated high uranium value in west foothills of Big Horn Mountains--not associated with uranium occurrences or radiometric anomalies.
W08936	Well	Qs(Kc)	39.70	1700	Area is covered by Quaternary sands and underlain by Cody shale. Four other samples in the area contain 10 to 20 ppb uranium.
W09038	Well	KJ/Kmt	74.04	1300	Located at southern tip of Big Horn Mountains. Poor sample density in area. No known occurrences or radiometric anomalies nearby.
W08889	Spring	Twdr	27.31	1300	Isolated high-uranium sample located in Wind River Basin.
W08164	Stream	Kc	30.10	33000	Isolated high uranium sample south of Kaycee. Collected from stream draining area of cluster W3.
W09326	Spring	Tft	20.23	3400	Isolated high uranium value with one uranium value of 13.1 ppb in a nearby sample. Located just south of Pumpkin Buttes District.

[a] As explained in the text, artificial pond water samples are not included.

[b] Key to geologic symbols (Love et al, 1978): Qa = Quaternary alluvium; Qs = Quaternary sand deposits; Twl = Willwood formation; Tw = Wasatch formation; Twdr = Wind River formation; Tft = Tullock member of Fort Union formation; Tfu = Fort Union formation; Kl = Lance formation; Klfl = Lance, Fox Hills, and Lewis formations; Kf = Frontier formation; Kmv = Mesaverde formation; Kc = Cody shale; Kmt = Mowry and Thermopolis shales; KJ = Cloverly and Morrison formations; Jsg = Sundance and Gypsum Spring formations; PPcg = Gypsum Spring and Chugwater formations; PM = Tensleep sandstone and Amsden formation.

Cluster W3 is located on the west flank of the Powder River Basin near the southern end of the Big Horn Mountains. The cluster contains five samples with greater than 20 ppb uranium and four in the 10-20 ppb range. Eight of these samples are from ground water locations associated with a few-kilometers-wide exposure of lower Mesozoic units that is bounded on the west by the drainage divide of the Red Wall, a west-facing outcrop of Triassic Chugwater sandstones. All the ground waters from this area collected immediately downslope from the Red Wall and the one sampled creek contain high uranium values. The underlying Tensleep sandstone of Pennsylvanian age is known to contain uranium occurrences about 15 km to the north near cluster W4.

Cluster W4 contains four well samples with over 20 ppb uranium and is located to the south and southwest of Mayoworth. The known occurrences in the Mayoworth area lie about 3 km downslope to the east of the three samples in the north end of the cluster. The southernmost sample in the cluster (W08216) was collected near uranium occurrence 79 (Fig. 5 and Appendix II), which is associated with the nearby Tensleep sandstone (Pennsylvanian). Ore production has been reported from this occurrence. The samples in this cluster, as were those in cluster W3, were collected from locations near or in exposures of the Triassic Chugwater and Permian Goose Egg formations. Sample W08216, which has low concentrations of major constituents such as calcium and magnesium, contains a notably high molybdenum content.

Cluster W5 is located about 20 km north of Kaycee and consists of five ground water samples containing >20 ppb uranium, including three of the highest five values reported. These samples were collected near the contact of the Tertiary Fort Union and Cretaceous Lance formations. The cluster lies to the west of the northern end of the outcrop of altered sandstones shown by Childers (1970). Radiometric anomaly 19 (geoMetrics, 1979) lies to the east about 2-3 km. These samples may be indicative of uranium mobilization and transport from areas to the west.

Cluster W6 is comprised of four well water sample sites, two of which are over 20 ppb, located in the southern portion of the Pumpkin Buttes District (Fig. 5). This cluster is clearly associated with the many known uranium occurrences and mines in the area. Radiometric anomaly 8 (geoMetrics, 1979) is also closely associated with the cluster, and the whole general area is within anomaly 6 (Texas Instruments, Inc., 1974b). The samples in cluster W6 also have relatively low conductivities (500-700 µmho/cm) and low concentrations of major constituents such as calcium and magnesium.

Another interesting area is located on the Casper arch in the south-central part of the quadrangle. This area was sparsely sampled but has five ground water samples that contain >10 ppb uranium, only one of which is >20 ppb (39.70 ppb). These sample sites are located on Quaternary sands underlain by the Cretaceous Cody shale. Generally high uranium contents were found for ground water samples associated with similar Cretaceous shale-rich units in the Lamar quadrangle, Colorado (Shannon, 1979). Shannon concluded that many areas in the Lamar quadrangle might be favorable for in situ leaching of uranium. Because in situ leaching is currently being developed in Cretaceous rocks only a few kilometers south of the quadrangle, north of Casper (Phillips, 1979), this area may deserve further study.

Uranium Concentrations in Sediment Samples

A total of 1249 sediment samples was collected from 899 dry streams, 167 springs, 82 wet streams, 55 wet artificial ponds, and 46 dry artificial ponds.

Histograms and statistical summaries showing the distribution of uranium concentrations in each sample type are given in Fig. 8. The mean and standard deviation were recalculated for all sample types as a group and for dry stream samples because of the strong positive bias introduced by the two highest values.

A cutoff value of 7 ppm uranium, corresponding to the three largest symbols on the concentration overlay (Plate IV), was arbitrarily chosen for discussion purposes (2% of the sediment samples). Two clusters of sites with samples containing >7 ppm uranium were selected and are shown on Fig. 9. All samples containing greater than 7 ppm uranium, except for one spring and two pond sediment samples, are dry stream sediments (Table III). However, for purposes of discussion, all sample types are considered as one population.

Sediment cluster S1 (Fig. 9), which contains nine samples with >7 ppm, corresponds with the Copper Mountain District. The samples with the two highest uranium values reported herein and three others with over 10 ppm were collected from streams draining an area of several uranium occurrences and mines on the south flanks of Copper Mountain. This area also coincides with radiometric anomaly 1 (Texas Instruments, Inc., 1974a). The high uranium values for these samples might result from contamination by tailings upstream, since all the samples over 8 ppm from this area were collected downstream from occurrences or mines.

Sediment cluster S2 lies in the western half of the quadrangle along the southern edge, in the Wind River Basin (Fig. 9). The cluster is comprised of two samples containing >10 ppm uranium, five samples containing between 7 and 10 ppm, and several containing 6 to 7 ppm. This area coincides with an area of many radiometric "preferred anomalies" (Texas Instruments, Inc., 1979), and three known uranium occurrences are located to the north (occurrences 70-72, Fig. 5).

Five other samples containing over 7 ppm uranium were collected from the east side of the quadrangle (Fig. 9). These are associated with the Pumpkin Buttes District and include two samples containing >30 ppm uranium. All these samples are associated with high concentrations of mobile elements, particularly sodium and chlorine. The two dry stream samples containing >30 ppm uranium were collected from the area associated with high uranium in water samples (cluster W6, Fig. 7). These two samples also exhibit very high uranium/thorium (U/Th) ratios.

V. SUMMARY AND CONCLUSIONS

Totals of 570 water samples and 1249 sediment samples were collected from 1517 locations in the 18 000-km^2 area of the Arminto NTMS quadrangle, Wyoming. Water samples were collected from wells, streams, springs, and artificial ponds, and sediment samples were collected from streams, springs, and artificial ponds.

All water sample types except pond water samples were treated as a single population in evaluating the data. The mean uranium concentration for all sample types is 4.32 ppb; concentrations range from below the detection limit to 84.60 ppb. Pond water samples were excluded from consideration because of possible concentration of uranium by evaporation. Samples containing >20 ppb uranium (5% of the water samples) and those supporting them in the intermediate range of 10-20 ppb were arbitrarily chosen for cluster selection; most of these

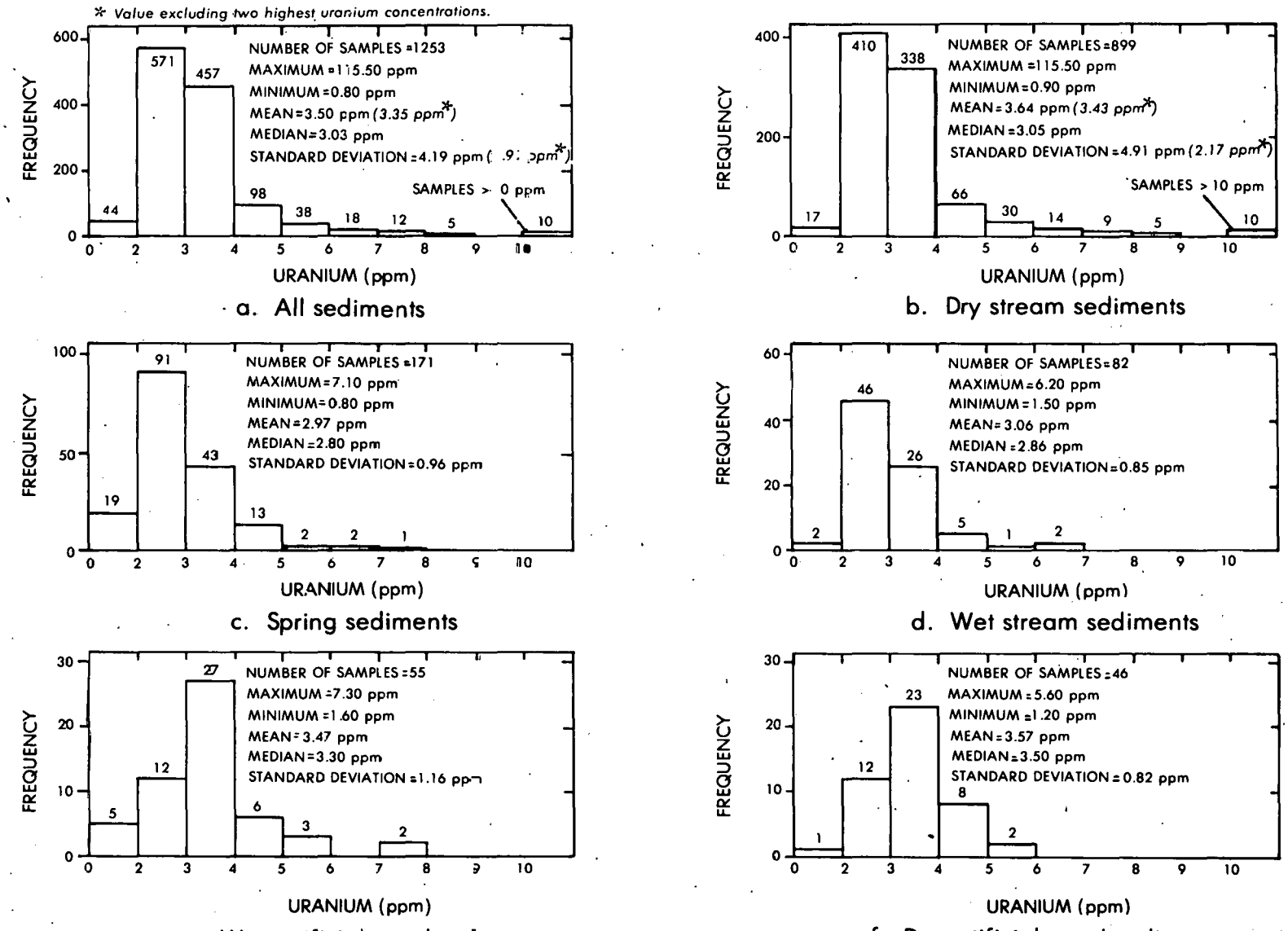


Fig. 8. Histograms and statistical data for uranium concentrations in sediment samples from the Arminto quadrangle, Wyoming.

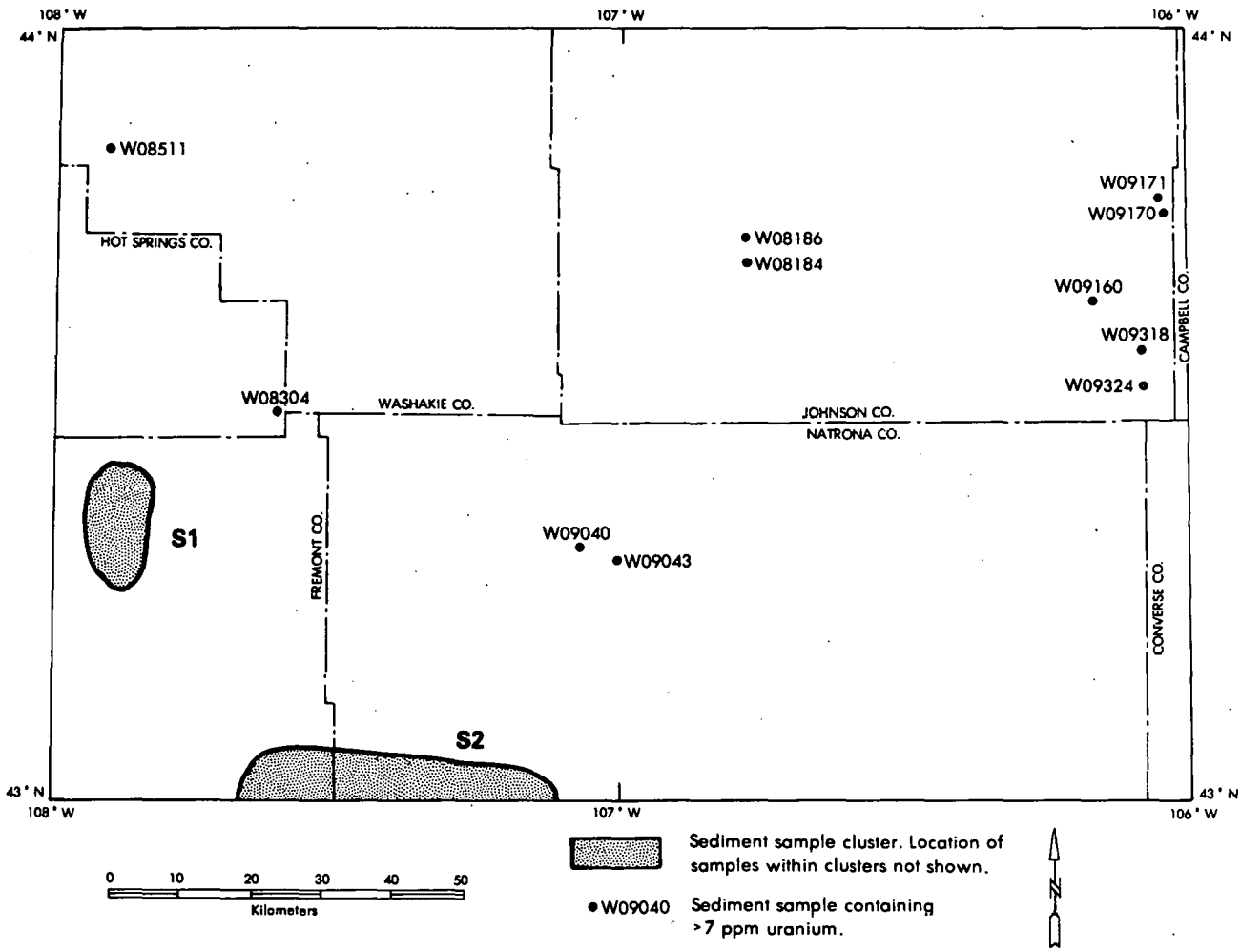


Fig. 9. Location of sediment sample clusters and individual samples containing >7 ppm uranium in the Arminto quadrangle, Wyoming.

samples grouped into six clusters of water sample sites. One cluster is associated with the Pumpkin Buttes District; two others are near the Kaycee and Mayoworth uranium areas and may be indicative of more extensive mineralization in these areas. The largest cluster contains eight ground waters and one stream water and is located entirely along the drainage divide of the Red Wall on the west side of the Powder River Basin. The two remaining clusters are located in the Wind River and Big Horn Basins and are related to the Wind River and Willwood formations, units that are favorable hosts for uranium mineralization. An area of interest on the Casper arch, underlain by the Cody shale, has uranium values that may indicate sufficient mineralization for in situ leaching in the Cretaceous rocks.

All sediment sample types were treated as a single population. The mean uranium concentration for all sediment samples is 3.50 ppm; concentrations range from 0.80 to 115.50 ppm. Discussion is arbitrarily limited to those samples containing >7 ppm uranium (2% of the sediment samples). Two clusters

TABLE III

SEDIMENT SAMPLES HAVING >7 PPM URANIUM FROM THE ARMINTO QUADRANGLE, WYOMING

Sample Location Number	Sample Type	Geologic Association*	Uranium Concentration (ppm)	Remarks
W09478	Dry stream	p€	10.64	Cluster S1: Associated with Copper Mountain District. All samples associated with high concentrations of rare earth elements. These samples subject to possible mining contamination from many occurrences upstream.
W09479	Dry stream	p€	33.96	
W09481	Dry stream	Twdr	8.13	
W09483	Dry stream	p€	11.52	
W09484	Dry stream	p€	115.50	
W09485	Dry stream	p€	73.39	
W09486	Dry stream	p€	7.39	
W09500	Dry stream	Twdr	7.48	
W09501	Dry stream	Twdr	7.74	
W08653	Dry stream	Twdr	14.03	Cluster S2: Associated with two groups of uranium occurrences in Wind River Basin. Coincides with radiometric anomaly 9 (Texas Instruments, Inc., 1974a). All these samples except W08653 associated with high concentrations of rare earth elements and hafnium.
W08655	Dry stream	Twdr	12.75	
W08885	Dry stream	Twdr	8.32	
W08886	Dry stream	Twdr	7.24	
W08905	Dry stream	Twdr	7.29	
W08907	Dry stream	Twdr	8.99	
W08909	Dry stream	Twdr	8.99	
W09160	Dry stream	Tw	7.97	Located on east side of quadrangle and associated with Pumpkin Buttes District. All samples associated with high concentrations of mobile elements, particularly sodium and chlorine.
W09170	Dry stream	Tw	13.00	
W09171	Dry stream	Tw	7.24	
W09318	Dry stream	Tw	34.35	
W09324	Dry stream	Tw	34.58	
W09040	Dry stream	Kmt	8.26	Located near southern tip of Big Horn Mountains.
W09043	Dry stream	Kf	7.83	
W08184	Pond	Kf	7.20	Located in foothills of Big Horn Mountains in area of water cluster W4.
W08186	Pond	KJ	7.30	
W08304	Spring	PM	7.10	Isolated high uranium value sample in Lysite Mountain area.
W08511	Dry stream	Tfu	7.70	Isolated high uranium value sample in Big Horn Basin.

*Key to geologic symbols (Love et al, 1978): Tw = Wasatch formation; Twdr = Wind River formation; Tfu = Fort Union formation; Kl = Lance formation; Kf = Frontier formation; Kmt = Mowry and Thermopolis shales; KJ = Cloverly and Morrison formations; PM = Tensleep sandstone and Amsden formation; p€ = Precambrian granitic and metamorphic complex.

of samples containing >7 ppm uranium were selected. The first cluster coincides with the Copper Mountain District and includes the sediment samples that contain the two highest uranium concentrations (115.50 and 73.39 ppm). The samples in this cluster are subject to contamination from the many occurrences and mines upstream from the sample sites. The second cluster, in the Wind River Basin, is associated with three uranium occurrences and several aerial radiometric anomalies. Also, a high-uranium spring water sample was collected from the vicinity of this cluster. This area is considered a favorable area for uranium mineralization.

Several other sediment samples containing >7 ppm uranium and not associated with a cluster were collected within the Pumpkin Buttes District in the Powder River Basin. Two of these samples in the southern part of the district have uranium concentrations >30 ppm and U/Th ratios >5, and they are associated with water cluster W6. Several occurrences are located upstream of these sample sites.

Possibly the most interesting areas for further investigation are the areas of clusters W3 and W4, on the east edge of the Big Horn Mountains. Samples from both clusters were collected from areas underlain by exposures of Triassic age rocks. Cluster W3 contains the largest number of samples over 10 ppb uranium of any water cluster in the quadrangle, but no known occurrences are nearby. Uranium production near the southern end of cluster W4 (occurrence 79, Fig. 5) has been reported from the Tensleep sandstone of Pennsylvanian age.

Another area especially worthy of further study is that of sediment cluster S2 in the Wind River Basin along the southern edge of the quadrangle. This area is associated with three uranium occurrences and several radiometric anomalies and is underlain by a favorable host unit, the Wind River formation. The existence of a major uranium district (the Gas Hills District) to the south suggests the possibility of "halo" mineralization.

ACKNOWLEDGMENTS

The author acknowledges the contributions of the following LASL groups and individuals. All water analyses and x-ray fluorescence and emission spectrometry of sediment samples were performed by the Analytical Chemistry Group, directed by Glenn R. Waterbury. All delayed-neutron counting and neutron activation analyses were performed by the Research Reactor Group, under the direction of Merle E. Bunker. The Statistics Group, under the direction of Ray A. Waller, carried out data base management and provided the statistical data and computer graphics. Special thanks are due the following members of the Geochemical Applications Group: Carol LaDelfe, who helped with data base clean up; Mary Luke, who verified the sample locations; Nancy J. Eckhoff, who typed and edited the report; Mary Ann Olson, who drafted the figures and plates; and Richard G. Warren, Thomas A. Weaver, and Wayne A. Morris, who critically reviewed the paper. Also, sincere appreciation is expressed to the landowners who allowed access to their land so this survey could be completed.

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APPENDIX I

LISTINGS OF FIELD DATA AND ELEMENTAL CONCENTRATIONS FOR SAMPLES FROM THE ARMINTO NTMS QUADRANGLE, WYOMING

APPENDIX I-A

Listings of Field Data and Elemental Concentrations*
for Water Samples from the Arminto Quadrangle, Wyoming
(Pages 24 through 47)

* Molybdenum and lead analyses are subject to interference from calcium, as described in Appendix IV-A.

Note that two pages, numbered (1) and (2) in the upper right hand corner, are necessary to provide the complete data listing for each numerically ordered sequence of samples.

(1)- Lists field data and uranium concentrations determined by fluorometry.
(2)- Lists concentrations of 12 additional elements determined by plasma-source emission spectrography.

(See Appendix IV for Code to Listings)

APPENDIX I-A. Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (a) UNITS IN ppb
56-43.6005-106.5238-2-10-						0-W08001-05/16/76-11-			13-13.0-	-	-		7.2-	1300-		12-1-7-4-6-1-3-1-		-4-3-2-2-	-1-	-	-	-	-										3.72
56-43.6447-106.4672-2-10-						0-W08004-05/16/76-12-			16-16.0-C-	-			7.8-11500-			6-1-7-5-6-1-3-1-		-4-3-3-2-	-9-	-	-	-	-										20.20*
56-43.7005-106.6400-2-10-						0-W08011-05/07/76-13-			25-19.0-	-	-		6.6-	8300-		11-1-7-5-8-1-2-1-3-4-3-2-1-			-	-	-	-	-										0.86
56-43.6544-106.6294-2-08-						0-W08012-05/07/76-14-			23-12.5-	-	-		6.6-12000-			16-1-7-	-	-	-	-	-	-4-3-1-1-	-1-8-										5.85
56-43.5525-106.5530-2-08-						0-W08017-05/14/76-11-			33-24.0-C-	-			7.0-25000-			15-1-7-	-	-3-3-1-	-4-2-2-1-	-1-1-													1.70
56-43.5947-106.1466-2-10-						0-W08018-05/17/76-16-			28-19.0-C-	-			7.6-	4200-		9-1-7-5-7-2-3-1-		-4-2-2-1-	-1-	-	-	-	-										31.00*
56-43.5177-106.5177-2-10-						0-W08026-05/14/76-17-			28-21.0-	-	-		7.8-	300-		12-1-7-5-7-2-2-2-		-4-2-4-1-	-1-	-	-	-	-										3.23
56-43.5200-106.5230-2-08-						0-W08027-05/14/76-17-			28-17.0-	-	-		7.8-	2800-		12-1-7-	-	-2-2-1-	-4-2-3-1-	-1-	-	-	-										1.83
56-43.5305-106.5377-2-10-						0-W08028-05/14/76-17-			27-19.0-	-	-		8.0-	1600-		15-1-7-5-7-1-2-2-		-4-2-4-1-	-1-	-	-	-	-										3.91
56-43.7261-106.6033-2-08-						0-W08034-05/16/76-17-			20-18.0-	-	-		7.8-	950-		9-1-7-	-	-3-3-1-	-4-3-3-1-	-1-2-													1.82
56-43.5577-106.2102-2-10-						0-W08038-05/17/76-12-			25-18.0-C-	-	-		7.6-	1700-		9-1-7-5-7-1-2-2-		-4-2-3-1-	-1-	-	-	-	-										42.20*
56-43.5505-106.1877-2-10-						0-W08040-05/17/76-13-			26-18.0-C-	-	-		7.2-	6000-		9-1-7-5-7-2-3-1-		-4-2-2-1-	-9-	-	-	-	-										4.53
56-43.5211-106.1944-2-10-						0-W08041-05/17/76-13-			25-18.0-C-	-	-		8.4-	200-		9-1-7-5-6-1-2-2-		-4-2-3-1-	-9-	-	-	-	-										1.13
56-43.5205-106.1372-2-08-						0-W08043-05/17/76-14-			25-16.0-C-	-	-		7.8-	900-		12-1-7-	-	-	-	-	-	-4-2-	-1-	-1-8-											0.43
56-43.5866-106.6844-2-06-						0-W08048-05/08/76-14-			19- 8.0-C-	-	-		6.6-27000-			9-1-1-	-	-2-3-1-	-4-2-3-1-	-1-	-	-	-										5.72
56-43.6922-106.5313-2-08-						0-W08053-05/10/76-12-			24-11.5-C-	-	-		6.9-31500-			8-1-1-	-	-	-	-	-	-4-3-3-1-	-1-3-										2.46
56-43.6788-106.5261-2-08-						0-W08054-05/10/76-12-			24-14.5-C-	-	-		6.9-17000-			11-1-1-	-	-	-	-	-	-4-3-3-1-	-1-1-										6.77
56-43.6466-106.6044-2-10-						0-W08057-05/10/76-14-			24-18.5-	-	-		6.5-11250-			11-1-1-5-1-		-3-1-3-4-3-2-3-	-	-	-	-	-										6.30
56-43.6977-106.4083-2-08-						0-W08059-05/11/76-12-			20-17.0-C-	-	-		6.5-14250-			14-1-1-	-	-	-	-	-	-4-2-1-3-	-1-8-	-240-									0.84
56-43.7322-106.3122-2-10-						0-W08061-05/11/76-17-			18-15.0-	-	-		6.4-75000-			14-1-1-5-7-2-3-1-2-4-3-2-2-			-	-	-	-	-										5.26
56-43.7100-106.2922-2-08-						0-W08062-05/11/76-18-			14-10.5-C-	-	-		6.4-	1650-		7-1-1-	-	-2-2-1-	-4-3-1-2-	-1-9-	3-	-	-										0.40
56-43.7047-106.2558-2-08-						0-W08065-05/12/76-10-			14-12.0-C-	-	-		6.6-	1100-		14-1-1-	-	-	-	-	-	-2-3-1-3-	-1-9-	-	-	-							17.90*
56-43.6827-106.2900-2-10-						0-W08066-05/12/76-12-			14-15.0-C-	-	-		6.4-	3850-		14-1-4-5-1-		-3-1-3-4-2-3-2-	-	-	-	-	-										1.62
56-43.6858-106.3069-2-08-						0-W08069-05/12/76-17-			18-12.0-C-	-	-		6.4-	2650-		16-1-1-	-	-3-	-1-	-4-3-2-2-	-1-8-	-	-	-										1.42
56-43.6522-106.3127-2-10-						0-W08075-05/13/76-12-			25-23.5-	-	-		6.5-	3600-		12-1-1-5-7-		-2-4-	-4-2-3-1-	-	-	-	-										12.50*
56-43.6950-106.2938-2-08-						0-W08076-05/13/76-14-			23-14.0-	-	-		7.0-	800-		12-1-1-	-	-	-	-	-	-4-3-1-1-	-1-5-	-	80-	6-							0.19
56-43.8025-106.4538-2-08-						0-W08077-05/13/76-18-			23-11.5-C-	-	-		6.6-	2200-		9-1-6-	-	-	-	-	-	-4-3-1-1-	-1-8-	-	-	-							2.79
56-43.8055-106.4738-2-10-						0-W08079-05/14/76-11-			24-17.5-	-	-		6.5-	210-		11-1-6-5-7-1-3-1-3-4-3-2-1-			-	-	-	-	-										1.59
56-43.8458-106.3966-2-10-						0-W08081-05/14/76-12-			25-21.5-	-	-		6.5-	220-		10-1-1-5-7-		-2-1-	-4-3-2-1-	-	-	-	-										0.72
56-43.8613-106.6644-2-06-						0-W08083-05/14/76-15-			24-12.0-	-	-		6.7-	1500-		15-1-1-5-8-2-3-1-3-4-3-3-2-			-	-	-	-	-										38.30*
56-43.8611-106.6622-2-10-						0-W08084-05/14/76-16-			23-21.5-	-	-		6.6-	1550-		11-1-1-5-8-2-3-1-3-4-3-3-2-			-	-	-	-	-										9.10
56-43.8622-106.6611-2-08-						0-W08085-05/14/76-17-			17-19.0-C-	-	-		6.6-	460-		11-1-1-	-	-	-	-4-3-2-2-	-1-4-	6-155-	60-								84.60*
56-43.9016-106.6572-2-08-						0-W08086-05/17/76-11-			24-10.5-C-	-	-		6.9-	1400-		12-1-1-	-	-	-	-4-3-2-1-	-1-1-	-	-	-							39.20*
56-43.8894-106.6683-2-08-						0-W08088-05/18/76-11-			26-11.8-C-	-	-		6.5-	800-		12-1-1-	-	-	-	-4-3-3-1-	-1-1-	-	-	-							72.80*
56-43.9136-106.6688-2-08-						0-W08090-05/18/76-17-			28-11.5-	-	-		7.2-	440-		8-1-1-	-	-	-	-4-3-2-2-	-1-8-	-	-	-							4.33
56-43.9355-106.6755-2-08-						0-W08091-05/19/76-17-			23-23.5-C-	-	-		7.4-	7500-		4-1-1-	-	-	-	-1-	-4-3-2-2-	-1-1-	-	-	-							66.00*
56-43.9472-106.6844-2-10-						0-W08092-05/18/76-19-			23-20.0-	-	-		7.5-	1625-		15-1-1-	-	-1-3-1-	-4-3-2-2-	-	-	-	-										8.68
56-43.9222-106.6450-2-10-						0-W08094-05/19/76-10-			18-17.0-	-	-		6.3-	700-		11-1-7-5-7-1-3-3-		-4-3-2-1-	-1-	-	-	-	-										2.79
56-43.9461-106.6016-2-10-						0-W08095-05/19/76-11-			19-17.0-	-	-		8.5-	165-		8-1-7-5-8-1-3-3-		-4-3-2-1-	-1-	-	-	-	-										0.15
56-43.9005-106.5372-2-08-						0-W08098-05/19/76-13-			24-17.0-C-	-	-		6.3-	2100-		12-1-7-	-	-	-	-1-	-4-3-1-1-	-1-3-	6-300-										1.93
56-43.9716-106.5022-2-08-						0-W08100-05/19/76-15-			23-11.5-C-	-	-		6.6-	1700-		1-1-7-	-	-	-	-6-	-4-3-2-1-	-1-9-	3-	-	-								13.00*
56-43.9916-106.5966-2-10-						0-W08104-05/19/76-16-			24-25.0-	-	-		6.6-	700-		5-1-7-5-8-1-3-3-		-4-3-3-2-	-1-	-	-	-	-										5.09
56-43.8688-106.5261-2-08-						0-W08106-05/20/76-11-			19- 9.0-C-	-	-		6.3-	1750-		12-1-1-	-	-	-	-4-3-2-2-	-1-3-	6-800-											1.99
56-43.8638-106.5400-2-10-						0-W08107-05/20/76-11-			19-19.5-	-	-		6.3-	205-		11-1-1-4-7-1-2-2-3-4-3-2-2-			-	-	-	-	-										0.76
56-43.8833-106.5133-2-08-						0-W08109-05/20/76-12-			21-12.0-	-	-		6.3-	1550-		15-1-1-	-	-	-	-4-3-2-2-	-1-1-	-	-	-										0.84
56-43.5844-106.5097-2-10-						0-W08114-05/14/76-11-			28-18.0-C-	-	-		7.8-	2300-		12-1-7-5-7-3-3-1-		-4-2-2-1-	-1-	-	-	-	-										3.65
56-43.5844-106.5061-2-10-						0-W08115-05/14/76-12-			33-21.0-	-	-		7.8-	3400-		15-1-7-5-7-3-3-1-		-4-2-2-1-	-1-	-	-	-	-										3.22
56-43.5400-106.4661-2-10-						0-W08117-05/14/76-13-			31-20.0-	-	-		8.2-	1500-		6-1-7-5-7-2-2-1-		-4-2-2-1-	-1-	-	-	-	-										2.98
56-43.5122-106.3969-2-08-						0-W08120-05/14/76-13-			30-21.0-C-	-	-		8.0-	3000-		12-1-7-	-	-3-2-1-	-4-2-2-1-	-1-1-	-	-	-										0.10
56-43.5316-106.4200-2-10-						0-W08121-05/14/76-12-			30-21.0-	-	-		8.2-13000-			9-1-7-5-7-2-2-2-		-4-2-2-1-	-1-	-	-	-	-										45.40*
56-43.5472-106.3827-2-08-						0-W08123-05/14/76-14-			33-21.0-C-	-	-		8.0-	4000-		13-1-7-	-	-3-3-1-	-4-2-3-1-	-1-1-	-	-	-										0.16

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.6005-106.5238-2-10-				0-	W08001		218000	271	-25	63	434	59680	418	223	-25	-200	17	462
56-43.6447-106.4672-2-10-				0-	W08004													
56-43.7005-106.6400-2-10-				0-	W08011		26584	175	-25	11	212	4174	16	38	-25	-200	-4	139
56-43.6544-106.6294-2-08-				0-	W08017		127000	242	-25	28	88	44636	9	51	-25	-200	-4	373
56-43.5525-106.5530-2-08-				0-	W08017		442000	624	-25	60	1630	176000	113	-25	-25	2568	-4	654
56-43.5947-106.1466-2-10-				0-	W08018		168000	331	-25	16	154	167000	69	63	-25	1138	-4	443
56-43.5177-106.5177-2-10-				0-	W08024		157000	245	-25	669	875	59376	61	151	-25	286	33	1911
56-43.5200-106.5230-2-08-				0-	W08027		329000	440	-25	60	290	77923	175	166	-25	-200	-4	609
56-43.5305-106.5377-2-10-				0-	W08028		80744	145	-25	120	1605	44038	54	91	-25	277	49	505
56-43.7261-106.6033-2-08-				0-	W08034		129000	315	-25	19	292	88841	55	202	-25	968	8	1144
56-43.5577-106.2102-2-10-				0-	W08038		56012	190	-25	45	154	100000	14	147	-25	1202	13	152
56-43.5505-106.1877-2-10-				0-	W08040		304000	394	-25	45	287	63526	357	112	-25	474	21	320
56-43.5211-106.1944-2-10-				0-	W08041		39909	116	57	40	568	9886	47	126	34	491	37	92
56-43.5205-106.1372-2-08-				0-	W08043		5175	139	-25	51	361	891	17	-25	-25	-200	9	67
56-43.5866-106.6844-2-06-				0-	W08049		160000	341	-25	38	251	129000	76	170	-25	1077	19	293
56-43.6922-106.5313-2-08-				0-	W08053		96953	214	53	29	206	35501	107	206	-25	718	25	573
56-43.6788-106.5261-2-08-				0-	W08054		376000	554	88	63	854	170000	84	204	30	1171	45	856
56-43.6466-106.6044-2-10-				0-	W08057		229000	354	86	59	118	18060	23	247	65	-200	40	271
56-43.6977-106.4083-2-08-				0-	W08059		43384	125	-25	15	131	12728	34	89	-25	201	13	195
56-43.7322-106.3122-2-10-				0-	W08061		81340	240	57	31	176	34765	83	171	36	644	23	217
56-43.7100-106.2922-2-08-				0-	W08062		36612	-55	-25	20	823	12099	65	-25	-25	-200	-4	83
56-43.7047-106.2558-2-08-				0-	W08065		19971	-55	-25	90	485	7403	56	-25	-25	-200	-4	441
56-43.6827-106.2900-2-10-				0-	W08066		286000	386	-25	33	284	191000	111	112	-25	1060	23	436
56-43.6858-106.3069-2-08-				0-	W08069		153000	211	-25	26	1963	54193	172	92	-25	-200	13	322
56-43.6522-106.3127-2-10-				0-	W08075		66933	106	-25	23	182	24672	152	-25	-25	-200	5	140
56-43.6950-106.2938-2-08-				0-	W08076		10539	-55	-25	9	128	3020	22	-25	-25	-200	-4	101
56-43.8025-106.4538-2-08-				0-	W08077		84511	103	-25	9	3193	19713	229	-25	-25	-200	-4	209
56-43.8055-106.4738-2-10-				0-	W08079		28047	-55	-25	7	392	6985	20	-25	-25	-200	-4	106
56-43.8458-106.3966-2-10-				0-	W08081		12110	-55	-25	14	510	5175	10	-25	-25	-200	-4	579
56-43.8613-106.6644-2-06-				0-	W08083		337000	454	-25	47	769	156000	2183	42	-25	294	15	535
56-43.8611-106.6622-2-10-				0-	W08084		103000	218	-25	30	332	111000	88	55	-25	631	9	319
56-43.8622-106.6611-2-08-				0-	W08085		24004	-55	-25	25	84	24487	6	-25	-25	-200	-4	110
56-43.9016-106.6572-2-08-				0-	W08086		345000	347	-25	34	50523	46288	203	74	-25	-200	28	2699
56-43.8894-106.6683-2-08-				0-	W08088		139000	160	-25	25	284	40873	24	97	-25	205	9	487
56-43.9136-106.6588-2-08-				0-	W08090		67982	82	-25	20	136	16338	18	-25	-25	-200	-4	239
56-43.9355-106.6755-2-08-				0-	W08091		91711	132	57	27	194	36824	30	171	-25	609	19	301
56-43.9472-106.6844-2-10-				0-	W08092		138000	150	31	28	202	63972	263	153	-25	310	15	329
56-43.9222-106.6450-2-10-				0-	W08094		110000	166	28	53	585	40012	89	172	-25	-200	18	392
56-43.9461-106.6016-2-10-				0-	W08095		25159	101	-25	31	444	7590	28	-25	-25	-200	-4	253
56-43.9005-106.5372-2-08-				0-	W08098		107000	187	-25	10	356	25562	185	45	-25	-200	-4	372
56-43.9716-106.5022-2-08-				0-	W08100		301000	411	-25	49	1711	118000	116	103	-25	-200	13	1274
56-43.9916-106.5966-2-10-				0-	W08104		102000	131	-25	44	1352	65198	58	70	-25	-200	7	315
56-43.8688-106.5261-2-08-				0-	W08106		37201	-55	-25	-4	492	10652	88	-25	-25	-200	-4	359
56-43.8638-106.5400-2-10-				0-	W08107		26033	91	-25	13	158	8247	20	-25	-25	-200	-4	264
56-43.8833-106.5133-2-08-				0-	W08108		32921	-55	-25	16	1082	9115	77	37	-25	-200	-4	228
56-43.5844-106.5097-2-10-				0-	W08114		377000	493	-25	34	210	95418	55	33	-25	-200	-4	625
56-43.5844-106.5061-2-10-				0-	W08115		439000	490	-25	53	198	101000	90	26	-25	-200	34	590
56-43.5400-106.4661-2-10-				0-	W08117		162000	210	-25	18	82	60104	40	108	-25	-200	15	250
56-43.5122-106.3969-2-08-				0-	W08120		5532	-55	-25	33	162	2471	8	-25	-25	-200	-4	87
56-43.5316-106.4200-2-10-				0-	W08121		465000	963	-25	126	1003	537000	134	-25	-25	6659	33	1034
56-43.5472-106.3827-2-08-				0-	W08123		5561	-55	-25	36	393	5558	8	-25	-25	-200	-4	60

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
56-43.5355-106.3655-2-08-						0-W08124-05/14/76-13-			32-15.0-C-		-		8.0-	1300-		9-1-7-	-	-3-3-1-		-4-2-3-1-		-1-1-		-		-							0.61
56-43.5258-106.6422-2-08-						0-W08157-05/07/76-16-			18- 8.0-C-		-		6.5-	24500-		11-1-7-	-	-	-	-3-		-4-3-1-1-		-1-9-		4-		60-		40-				7.47
56-43.5150-106.7086-2-07-						0-W08158-05/07/76-18-			20-21.5-		-	-	6.9-	31500-		12-1-7-4-7-3-3-1-2-4-2-3-1-																			24.40*
56-43.5361-106.6800-2-10-						0-W08159-05/07/76-19-			17-14.0-		-	-	6.6-	24500-		9-1-7-5-6-	-	-	-	-4-2-1-1-		-	-	-										10.30*
56-43.6044-106.6655-2-08-						0-W08160-05/07/76-19-			17-17.0-		-	-	7.2-	24000-		11-1-7-	-	-	-	-	-	-4-2-3-1-		-1-1-		-		-							2.70
56-43.6766-106.6283-2-10-						0-W08161-05/08/76- 8-			12-12.5-		-	-	6.5-	37500-		9-1-7-5-6-2-		-1-		-4-3-3-3-		-	-	-										14.10*
56-43.6916-106.5994-2-10-						0-W08162-05/08/76- 9-			19-11.5-C-		-	-	6.5-	38000-		11-1-6-5-6-1-2-1-				-4-3-3-1-		-	-	-										16.30*
56-43.6344-106.6019-2-07-						0-W08164-05/08/76-11-			19-19.0-		-	-	6.8-	33000-		11-1-7-4-6-2-3-1-2-				4-3-3-1-		-	-	-										30.10*
56-43.6652-107.0000-2-10-						0-W08165-07/04/76-10-			27-20.0-		-	-	7.4-	400-		8-1-7-5-6-2-2-4-				-4-3-3-1-		-1-	-	-										1.85
56-43.6477-107.0361-2-08-						0-W08166-07/04/76-10-			28-18.0-		-	-	7.2-	300-		11-1-7-	-	-2-3-1-		-4-3-3-1-		-1-1-		-		-										0.49
56-43.6444-107.0530-2-06-						0-W08167-07/04/76-10-			28-10.0-		-	-	7.4-	250-		16-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.69
56-43.6594-107.0544-2-06-						0-W08168-07/04/76-11-			28-11.0-		-	-	6.8-	250-		9-1-7-	-6-2-2-1-			-4-3-3-1-		-1-	-	-										3.11
56-43.6638-107.0680-2-07-						0-W08169-07/04/76-11-			28-15.0-		-	-	7.2-	250-		11-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.27
56-43.6647-107.0688-2-07-						0-W08170-07/04/76-11-			28-11.0-		-	-	6.8-	300-		11-1-7-4-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.10
56-43.6877-107.1211-2-06-						0-W08171-07/04/76-12-			28-15.0-		-	-	6.8-	200-		12-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.25
56-43.6661-107.1094-2-06-						0-W08172-07/04/76-12-			28-15.0-		-	-	7.2-	300-		22-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.42
56-43.6766-107.0827-2-06-						0-W08173-07/04/76-12-			28-		-	-	7.2-	150-		4-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.15
56-43.6544-107.0672-2-06-						0-W08174-07/04/76-12-			29-19.0-		-	-	6.8-	300-		6-1-7-5-6-2-3-1-				-4-3-3-1-		-1-	-	-										1.07
56-43.6288-107.0588-2-06-						0-W08175-07/04/76-10-			30-10.0-		-	-	6.8-	200-		11-	-	-	-	-	-	-4-3-3-1-		-1-	-	-										0.49
56-43.6127-107.0616-2-08-						0-W08176-07/04/76-14-			31-17.0-		-	-	7.2-	500-		16-1-7-	-	-2-3-1-		-4-3-3-1-		-1-7-		-		-										5.51
56-43.6100-107.0666-2-06-						0-W08177-07/04/76-14-			31-11.0-		-	-	6.8-	450-		12-1-7-	-	-3-3-1-		-4-3-3-1-		-1-	-	-										1.38
56-43.6227-107.0794-2-06-						0-W08178-07/04/76-14-			31- 9.0-		-	-	7.2-	200-		12-1-7-	-	-3-3-1-		-4-3-3-1-		-1-	-	-										0.45
56-43.6222-107.0622-2-06-						0-W08179-07/04/76-15-			31-10.0-		-	-	6.8-	200-		11-1-7-5-2-3-3-1-				-4-3-3-1-		-1-	-	-										0.87
56-43.6383-107.0850-2-06-						0-W08180-07/04/76-16-			32-18.0-		-	-	7.6-	150-		16-1-7-5-6-3-3-1-				-4-3-3-1-		-	-	-										0.78
56-43.6352-107.1150-2-06-						0-W08181-07/04/76-14-			32-15.0-		-	-	7.2-	200-		12-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.37
56-43.6722-107.0200-2-10-						0-W08182-07/04/76-18-			32-13.0-		-	-	6.3-	350-		8-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.26
56-43.6788-107.0338-2-06-						0-W08183-07/04/76-18-			32-11.0-		-	-	6.8-	300-		8-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.10
56-43.7055-106.7777-2-10-						0-W08184-07/05/76-10-			28-25.0-		-	-	7.8-	2600-		11-1-7-5-6-2-3-2-				-4-3-3-1-		-1-	-	-										4.92
56-43.7000-106.7763-2-06-						0-W08185-07/05/76-10-			28-18.0-		-	-	6.8-	4600-		8-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										8.11
56-43.7388-106.7791-2-10-						0-W08186-07/05/76-10-			28-24.0-		-	-	7.4-	2500-		8-1-7-5-6-2-3-2-				-4-3-3-1-		-1-	-	-										2.74
56-43.6888-106.7791-2-10-						0-W08188-07/05/76-11-			29-25.0-		-	-	6.8-	1100-		12-1-7-5-6-3-3-2-				-4-3-3-1-		-1-	-	-										5.11
56-43.6958-106.7916-2-06-						0-W08189-07/05/76-11-			29-19.0-		-	-	6.8-	500-		9-1-7-	-	-3-3-1-		-4-3-3-1-		-1-	-	-										6.44
56-43.6458-106.7861-2-10-						0-W08190-07/05/76-12-			30-25.0-		-	-	8.2-	2000-		6-1-7-5-6-2-2-2-				-4-3-3-1-		-1-	-	-										2.23
56-43.5958-106.8527-2-06-						0-W08192-07/05/76-13-			32-25.0-		-	-	7.4-	850-		9-1-7-6-8-2-2-2-				-4-3-3-1-		-1-	-	-										1.81
56-43.5875-106.8416-2-06-						0-W08193-07/05/76-13-			32-28.0-		-	-	7.6-	800-		14-1-7-6-8-2-2-2-				-4-3-3-1-		-1-	-	-										1.39
56-43.5708-106.8375-2-10-						0-W08194-07/05/76-14-			33-30.0-		-	-	7.8-	600-		16-1-7-5-6-2-2-3-				-4-3-3-1-		-1-	-	-										0.10
56-43.5541-106.8041-2-06-						0-W08195-07/05/76-14-			33-25.0-		-	-	7.2-	600-		6-1-7-4-6-3-3-1-				-4-3-3-1-		-1-	-	-										19.30*
56-43.5527-106.7930-2-06-						0-W08196-07/05/76-14-			33-23.0-		-	-	7.4-	550-		6-1-7-4-6-3-3-1-				-4-3-3-1-		-1-	-	-										20.10*
56-43.5472-106.8041-2-06-						0-W08197-07/05/76-14-			35-22.0-		-	-	7.2-	500-		6-1-7-4-4-2-2-1-				-4-3-3-1-		-1-	-	-										18.10*
56-43.5722-106.8875-2-08-						0-W08199-07/05/76-16-			37-19.0-		-	-	7.2-	400-		8-1-4-	-	-3-3-1-		-4-3-3-1-		-1-1-		-		-										2.33
56-43.6208-106.9222-2-06-						0-W08202-07/05/76-16-			35-19.0-		-	-	6.8-	300-		6-1-4-4-6-3-3-1-				-4-3-3-1-		-1-	-	-										1.10
56-43.6541-106.8708-2-08-						0-W08203-07/05/76-16-			35-20.0-C-		-	-	7.4-	8000-		11-1-7-	-	-3-3-2-		-4-3-3-1-		-1-7-		-		-										0.90*
56-43.7177-107.0255-2-06-						0-W08206-07/08/76-10-			30-11.0-		-	-	6.9-	550-		11-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.38
56-43.7111-107.0522-2-10-						0-W08207-07/08/76-10-			30-23.0-		-	-	6.6-	200-		9-1-7-5-6-2-3-2-				-4-3-3-1-		-1-	-	-										0.10
56-43.7016-107.0550-2-06-						0-W08208-07/08/76-10-			30-12.0-		-	-	7.2-	500-		8-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.29
56-43.7200-107.0411-2-06-						0-W08209-07/08/76-11-			32-10.0-		-	-	7.2-	450-		9-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-										0.55
56-43.7583-106.9541-2-07-						0-W08211-07/08/76-12-			32-18.0-		-	-	7.8-	350-		9-1-4-	-	-3-3-1-		-4-3-3-1-		-1-	-	-										0.36
56-43.7375-106.9388-2-08-						0-W08212-07/08/76-12-			32-17.0-		-	-	6.9-	370-		11-1-4-	-	-3-3-1-		-4-3-3-1-		-1-3-		-		-										1.35
56-43.6833-106.8111-2-08-						0-W08213-07/08/76-18-			35-18.0-		-	-	6.6-	400-		8-1-4-	-	-3-3-1-		-4-3-3-1-		-1-3-		-		-										0.58
56-43.7055-106.8194-2-08-						0-W08216-07/08/76-19-			35-19.0-C-		-	-	8.1-	5500-		4-1-4-	-	-3-3-1-		-4-3-2-1-		-1-9-		-		-										23.50*
56-43.6680-106.8165-2-10-						0-W08217-07/08/76-20-			28-26.0-		-	-	6.9-	6000-		11-1-4-5-7-3-3-1-				-4-3-3-2-1-		-1-	-	-										1.49

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.5355-106.3655-2-08-				0	-W08124		104000	199	-25	33	1009	83530	82	-25	-25	-200	-4	248
56-43.5258-106.6422-2-08-				0	-W08157		538000	580	-25	56	2584	149000	211	-25	-25	-200	37	574
56-43.5150-106.7086-2-07-				0	-W08158		215000	260	-25	24	142	71247	19	-25	-25	-200	-4	204
56-43.5361-106.6800-2-10-				0	-W08159		507000	529	-25	33	293	116000	30	-25	-25	-200	31	503
56-43.6044-106.6655-2-08-				0	-W08160		13738	-55	-25	27	707	4031	26	-25	-25	-200	-4	121
56-43.6766-106.6283-2-10-				0	-W08161		784000	989	-25	72	519	419000	151	-25	-25	-200	54	889
56-43.6916-106.5994-2-10-				0	-W08162													
56-43.6344-106.6019-2-07-				0	-W08164		647000	767	72	64	469	220000	428	-25	-25	-200	63	571
56-43.6652-107.0000-2-10-				0	-W08165		133000	277	-25	38	1479	25643	1111	-25	-25	-200	34	358
56-43.6477-107.0361-2-08-				0	-W08166		96102	153	44	21	224	54935	44	73	-25	549	42	168
56-43.6444-107.0530-2-06-				0	-W08167		74572	139	54	10	132	33498	14	51	52	644	23	90
56-43.6594-107.0544-2-06-				0	-W08168		96849	112	52	42	252	50419	39	99	83	864	38	250
56-43.6638-107.0680-2-07-				0	-W08169		81521	127	-25	12	144	29285	12	38	-25	367	26	114
56-43.6647-107.0688-2-07-				0	-W08170		86479	143	63	14	54	37249	11	151	77	569	28	169
56-43.6877-107.1211-2-06-				0	-W08171		66338	65	87	12	321	32445	22	114	80	780	38	132
56-43.6661-107.1094-2-06-				0	-W08172		89294	106	79	14	223	41878	19	86	96	733	41	143
56-43.6766-107.0827-2-06-				0	-W08173		101000	241	53	13	473	40580	21	49	66	424	43	190
56-43.6544-107.0672-2-06-				0	-W08174		95737	233	-25	17	149	62979	24	-25	-25	353	9	161
56-43.6288-107.0588-2-06-				0	-W08175		83263	252	29	92	341	46988	38	-25	-25	375	18	281
56-43.6127-107.0616-2-08-				0	-W08176		425000	537	119	70	1281	108000	418	-25	146	-200	103	695
56-43.6100-107.0666-2-06-				0	-W08177		122000	167	-25	10	230	51491	22	-25	-25	-200	-4	318
56-43.6227-107.0794-2-06-				0	-W08178		69959	73	-25	-4	127	45607	12	-25	-25	-200	-4	-50
56-43.6222-107.0622-2-06-				0	-W08179		81842	85	-25	6	205	53604	24	-25	-25	-200	-4	167
56-43.6383-107.0850-2-06-				0	-W08180		64935	110	-25	-4	597	35558	31	-25	-25	-200	9	95
56-43.6352-107.1150-2-06-				0	-W08181		89285	155	-25	7	225	38377	47	-25	-25	-200	-4	71
56-43.6722-107.0200-2-10-				0	-W08182		59991	-55	-25	-4	192	31213	19	-25	-25	-200	-4	84
56-43.6788-107.0338-2-06-				0	-W08183		99000	165	-25	17	250	50798	36	-25	-25	-200	14	232
56-43.7055-106.7777-2-10-				0	-W08184		211000	289	-25	19	678	46547	105	-25	-25	-200	41	267
56-43.7000-106.7763-2-06-				0	-W08185		714000	758	158	58	365	171000	337	-25	236	-200	103	1040
56-43.7388-106.7791-2-10-				0	-W08186		159000	200	169	23	192	41490	56	220	153	1297	70	199
56-43.6888-106.7791-2-10-				0	-W08188		121000	187	-25	12	556	42615	31	-25	-25	-200	6	185
56-43.6958-106.7916-2-06-				0	-W08189		101000	152	40	-4	209	54069	16	89	-25	968	28	171
56-43.6458-106.7861-2-10-				0	-W08190		37659	98	-25	7	2723	24526	133	36	-25	-200	197	101
56-43.5958-106.8527-2-06-				0	-W08192		161000	218	-25	-4	181	103000	96	-25	-25	396	6	172
56-43.5875-106.8416-2-06-				0	-W08193		198000	346	-25	5	253	128000	148	-25	-25	489	-4	295
56-43.5708-106.8375-2-10-				0	-W08194		59482	98	-25	-4	354	9132	36	-25	-25	-200	17	143
56-43.5541-106.8041-2-06-				0	-W08195		120000	192	40	-4	175	66498	16	86	-25	948	32	100
56-43.5527-106.7930-2-06-				0	-W08196		116000	196	-25	-4	227	64220	25	42	-25	580	21	205
56-43.5472-106.8041-2-06-				0	-W08197		86902	133	-25	-4	198	52117	43	-25	-25	-200	-4	182
56-43.5722-106.8875-2-08-				0	-W08199		83019	128	-25	-4	150	43876	29	-25	-25	-200	-4	153
56-43.6208-106.9222-2-06-				0	-W08202		78469	176	-25	-4	139	55053	27	-25	-25	-200	-4	55
56-43.6541-106.8708-2-08-				0	-W08203		379000	584	-25	24	7137	159000	1049	-25	-25	-200	-4	586
56-43.7177-107.0255-2-06-				0	-W08206		87555	192	-25	-4	107	57783	24	-25	-25	265	-4	147
56-43.7111-107.0522-2-10-				0	-W08207		35774	-55	-25	8	468	7307	551	38	-25	-200	17	192
56-43.7016-107.0550-2-06-				0	-W08208		86087	139	-25	-4	250	55509	41	-25	-25	-200	-4	177
56-43.7200-107.0411-2-06-				0	-W08209		82490	174	-25	-4	344	50682	96	34	-25	337	13	324
56-43.7583-106.9541-2-07-				0	-W08211		116000	224	-25	29	323	61909	57	34	-25	-200	14	235
56-43.7375-106.9388-2-08-				0	-W08212		78044	176	-25	8	189	42795	26	41	-25	-200	11	387
56-43.6833-106.8111-2-08-				0	-W08213		121000	186	-25	89	69	41331	36	-25	-25	-200	-4	177
56-43.7055-106.8194-2-08-				0	-W08214		4827	-55	-25	11	-25	910	-3	460	-25	-200	-4	-50
56-43.6680-106.8166-2-10-				0	-W08217		137000	240	-25	-4	1482	57597	2163	83	-25	-200	24	135

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
							TIME SAMPLED																							
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
56-	43.6597-	106.8458-	2-	06-		0-W08218-07/08/76-18-	28-	18.0-	-	-			6.6-	7000-		9-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	1.60*
56-	43.9961-	106.7172-	2-	07-		0-W08220-07/09/76-17-	36-	15.0-	-	-			6.9-	750-		8-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	1.87
56-	43.9944-	106.7625-	2-	07-		0-W08221-07/09/76-17-	36-	14.0-	-	-			6.8-	700-		11-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	1.21
56-	43.9708-	106.7847-	2-	10-		0-W08222-07/09/76-17-	36-	23.0-	-	-			7.2-	1400-		11-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	14.40*
56-	43.9625-	106.7541-	2-	07-		0-W08223-07/09/76-18-	36-	19.0-	-	-			7.4-	800-		9-	1-	7-	4-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	3.27
56-	43.8944-	106.7541-	2-	10-		0-W08224-07/09/76-18-	36-	19.0-	-	-			6.8-	1800-		9-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	14.70*
56-	43.9288-	106.7133-	2-	10-		0-W08225-07/09/76-18-	36-	20.0-	-	-			6.8-	1200-		11-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	16.40*
56-	43.8930-	106.8361-	2-	06-		0-W08226-07/09/76-20-	27-	16.0-	-	-			8.5-	700-		8-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	3-	1-	-1-	-	-	-	-	3.71
56-	43.9125-	106.8444-	2-	06-		0-W08227-07/09/76-20-	27-	19.0-	-	-			8.2-	500-		11-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	3-	1-	-1-	-	-	-	-	3.27
56-	43.9055-	106.8055-	2-	06-		0-W08228-07/09/76-20-	27-	18.0-	-	-			8.0-	550-		9-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	3-	1-	-1-	-	-	-	-	2.83
56-	43.8527-	106.7777-	2-	10-		0-W08233-07/09/76-21-	25-	21.0-	-	-			8.2-	1900-		11-	1-	7-	6-	8-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	6.49
56-	43.5638-	106.8666-	2-	08-		0-W08234-07/10/76- 6-	15-	12.0-	C-	-			6.5-	3700-		11-	1-	4-	-	-	2-	2-	1-		-4-	3-	3-	1-	-1-	9-	-	-	-	9.10*
56-	43.5305-	106.8625-	2-	07-		0-W08235-07/10/76- 7-	18-	15.0-	-	-			6.8-	1100-		3-	1-	4-	5-	4-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	6.71
56-	43.5319-	106.8666-	2-	07-		0-W08236-07/10/76- 7-	18-	15.0-	-	-			6.8-	1100-		3-	1-	4-	5-	4-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	5.53
56-	43.5069-	106.9583-	2-	08-		0-W08239-07/10/76- 8-	23-	13.0-	-	-			7.2-	150-		16-	1-	7-	-	-	3-	3-	1-		-4-	3-	2-	1-	-1-	3-	-	-	-	0.21
56-	43.5027-	106.9208-	2-	08-		0-W08240-07/10/76- 8-	23-	14.0-	-	-			7.4-	200-		12-	1-	7-	-	-	3-	3-	1-		-4-	3-	2-	1-	-1-	1-	-	-	-	0.16
56-	43.5255-	107.0311-	2-	06-		0-W08242-07/10/76- 9-	27-	13.0-	-	-			7.2-	270-		16-	1-	4-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	0.21
56-	43.5583-	107.0377-	2-	06-		0-W08244-07/10/76- 9-	27-	12.0-	-	-			6.9-	250-		14-	1-	4-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	0.10
56-	43.5430-	107.0613-	2-	06-		0-W08245-07/10/76-10-	28-	8.0-	-	-			6.5-	260-		11-	1-	4-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	0.60
56-	43.5305-	107.0727-	2-	06-		0-W08246-07/10/76-10-	28-	6.0-	-	-			6.3-	240-		6-	1-	4-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	0.10
56-	43.5294-	107.0761-	2-	07-		0-W08247-07/10/76-10-	28-	15.0-	-	-			6.6-	300-		6-	1-	4-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	0.10
56-	43.5561-	107.0888-	2-	06-		0-W08248-07/10/76-11-	31-	13.0-	-	-			6.8-	390-		12-	1-	4-	5-	6-	3-	3-	1-		-4-	3-	3-	1-	-1-	-	-	-	-	0.87
56-	43.5400-	107.1100-	2-	07-		0-W08249-07/10/76-11-	31-		-	-			7.4-	310-		12-	1-	4-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	0.52
56-	43.5702-	107.0894-	2-	06-		0-W08250-07/10/76-11-	31-	11.0-	-	-			6.3-	300-		11-	1-	4-	5-	6-	3-	3-	1-		-4-	3-	3-	1-	-1-	-	-	-	-	0.61
56-	43.5716-	107.1150-	2-	06-		0-W08251-07/10/76-11-	31-	9.0-	-	-			6.8-	165-		9-	1-	4-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.5950-	107.1044-	2-	06-		0-W08252-07/10/76-12-	32-	14.0-	-	-			7.2-	260-		9-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	1.07
56-	43.7633-	107.1113-	2-	06-		0-W08253-07/10/76-13-	35-	17.0-	-	-			6.8-	150-		16-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.7844-	107.0527-	2-	06-		0-W08254-07/10/76-13-	35-	15.0-	-	-			6.9-	200-		14-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.17
56-	43.7811-	107.1183-	2-	06-		0-W08255-07/10/76-14-	35-	19.0-	-	-			6.5-	210-		16-	1-	7-	6-	8-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.7938-	107.1033-	2-	06-		0-W08256-07/10/76-14-	35-	12.0-	-	-			5.8-	50-		9-	1-	7-	-	-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.8044-	107.1113-	2-	06-		0-W08257-07/10/76-14-	35-	10.0-	-	-			5.7-	50-		12-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.15
56-	43.8238-	107.0888-	2-	06-		0-W08258-07/10/76-14-	36-	12.0-	-	-			5.8-	40-		6-	1-	7-	5-	4-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.8133-	107.0488-	2-	07-		0-W08259-07/10/76-14-	36-	13.0-	-	-			6.3-	110-		3-	1-	7-	-	-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.77
56-	43.8583-	107.0961-	2-	06-		0-W08260-07/10/76-15-	35-	8.0-	-	-			5.2-	40-		9-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	3.15
56-	43.8402-	107.0738-	2-	06-		0-W08261-07/10/76-15-	35-	9.0-	-	-			5.5-	50-		8-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.8794-	107.1083-	2-	06-		0-W08262-07/10/76-15-	35-	13.0-	-	-			6.6-	350-		12-	1-	7-	4-	6-	3-	3-	1-		-4-	3-	3-	1-	-1-	-	-	-	-	0.44
56-	43.8838-	107.0800-	2-	10-		0-W08263-07/10/76-15-	35-	21.0-	-	-			6.3-	250-		16-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.8977-	107.0765-	2-	06-		0-W08264-07/10/76-15-	35-	15.0-	-	-			6.8-	300-		3-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	3-	1-	-1-	-	-	-	-	0.10
56-	43.9083-	107.0283-	2-	07-		0-W08265-07/10/76-16-	36-	12.0-	-	-			6.5-	270-		12-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.30
56-	43.8222-	106.8555-	2-	08-		0-W08266-07/10/76-17-	37-	18.0-	-	-			6.9-	2500-		9-	1-	7-	-	-	3-	3-	1-		-4-	3-	3-	1-	-1-	1-	-	-	-	40.90*
56-	43.8138-	106.8361-	2-	06-		0-W08267-07/10/76-17-	37-	18.0-	-	-			7.2-	2400-		8-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	3-	1-	-1-	-	-	-	-	7.10
56-	43.7972-	106.8527-	2-	08-		0-W08268-07/10/76-17-	37-	16.0-	-	-			6.7-	2700-		9-	1-	7-	-	-	3-	3-	1-		-4-	3-	4-	1-	-1-	1-	-	-	-	41.70*
56-	43.7861-	106.8375-	2-	08-		0-W08269-07/10/76-17-	37-	19.0-	-	-			7.2-	3000-		9-	1-	7-	-	-	3-	3-	1-		-4-	3-	3-	1-	-1-	1-	-	-	-	40.30*
56-	43.8277-	106.8250-	2-	06-		0-W08270-07/10/76-17-	37-	26.0-	-	-			6.9-	2600-		12-	1-	7-	5-	4-	3-	3-	1-		-4-	3-	3-	1-	-2-	-	-	-	-	5.27
56-	43.9872-	107.0366-	2-	10-		0-W08271-07/14/76- 8-	15-	9.0-	-	-			6.3-	270-		12-	1-	7-	4-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.9788-	107.0594-	2-	10-		0-W08272-07/14/76- 9-	20-	14.0-	-	-			5.2-	21-		8-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	2-	1-	-1-	-	-	-	-	0.15
56-	43.9805-	107.1194-	2-	06-		0-W08273-07/14/76- 9-	20-	12.0-	-	-			6.1-	300-		8-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.9783-	107.0838-	2-	10-		0-W08274-07/14/76- 9-	20-	13.0-	-	-			6.8-	300-		9-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.9616-	107.0944-	2-	10-		0-W08275-07/14/76- 9-	20-	11.0-	-	-			6.5-	350-		6-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.9511-	107.0572-	2-	10-		0-W08276-07/14/76- 9-	20-	12.0-	-	-			6.1-	340-		11-	1-	7-	5-	6-	3-	3-	1-		-4-	3-	3-	1-	-1-	-	-	-	-	0.82
56-	43.9555-	107.0327-	2-	06-		0-W08277-07/14/76-10-	20-	10.0-	-	-			6.5-	400-		12-	1-	7-	4-	4-	3-	3-	1-		-4-	3-	4-	1-	-1-	-	-	-	-	0.20

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.6597-106.8458-2-06-						0-W08218	493000	634	-25	37	592	274000	3090	-25	-25	1277	44	660
56-43.9961-106.7172-2-07-						0-W08220	173000	203	35	8	443	53737	98	-25	-25	567	33	250
56-43.9944-106.7625-2-07-						0-W08221	145000	144	-25	-4	781	46230	82	-25	-25	445	39	184
56-43.9708-106.7847-2-10-						0-W08222												
56-43.9625-106.7541-2-07-						0-W08223	199000	297	68	21	670	74879	154	-25	82	846	56	245
56-43.8944-106.7541-2-10-						0-W08224	37878	628	526	571	670	33471	639	-25	552	450	-4	552
56-43.9288-106.7133-2-10-						0-W08225	136000	231	-25	-4	172	79025	6	-25	-25	-200	-4	184
56-43.8930-106.8361-2-06-						0-W08226	79120	196	-25	13	1605	136000	154	40	-25	529	18	224
56-43.9125-106.8444-2-06-						0-W08227	38678	72	-25	-4	1057	69592	122	-25	-25	242	11	101
56-43.9055-106.8055-2-06-						0-W08228	28047	94	-25	-4	501	53855	13	-25	-25	-200	-4	76
56-43.8527-106.7777-2-10-						0-W08233	97520	257	-25	26	602	232000	60	-25	-25	1865	-4	280
56-43.5638-106.8666-2-08-						0-W08234												
56-43.5305-106.8625-2-07-						0-W08235												
56-43.5319-106.8666-2-07-						0-W08236	332000	371	-25	11	602	100000	58	-25	-25	-200	-4	475
56-43.5069-106.9583-2-08-						0-W08239	26741	72	-25	-4	199	13634	-3	-25	-25	-200	-4	134
56-43.5027-106.9208-2-08-						0-W08240	43859	-55	-25	12	591	20907	111	-25	-25	-200	-4	256
56-43.5255-107.0311-2-06-						0-W08242	58294	85	-25	-4	221	29548	10	-25	-25	-200	-4	193
56-43.5583-107.0377-2-06-						0-W08244	63905	-55	-25	-4	194	32755	15	32	-25	-200	-4	70
56-43.5430-107.0613-2-06-						0-W08245	68951	110	-25	-4	117	16964	21	-25	-25	-200	-4	133
56-43.5305-107.0727-2-06-						0-W08246	66195	77	-25	-4	306	28540	33	-25	-25	-200	-4	-50
56-43.5294-107.0761-2-07-						0-W08247	48927	101	-25	-4	121	22563	-3	-25	-25	-200	-4	-50
56-43.5561-107.0888-2-06-						0-W08248	70013	118	-25	9	556	41608	188	-25	-25	-200	-4	163
56-43.5400-107.1100-2-07-						0-W08249	61952	-55	131	13	150	31407	19	192	107	1294	53	-50
56-43.5702-107.0894-2-06-						0-W08250	50289	57	158	15	172	27725	31	233	148	1589	58	-50
56-43.5716-107.1150-2-06-						0-W08251	51637	-55	43	-4	188	17208	32	104	33	644	19	79
56-43.5950-107.1044-2-06-						0-W08252	136000	210	-25	34	856	55078	248	-25	-25	-200	-4	307
56-43.7633-107.1113-2-06-						0-W08253	71611	145	-25	-4	488	16415	101	-25	-25	-200	-4	88
56-43.7844-107.0527-2-06-						0-W08254	130000	247	35	20	1067	29053	263	78	-25	-200	32	266
56-43.7811-107.1183-2-06-						0-W08255	41366	-55	-25	-4	20959	8589	3721	-25	-25	-200	-4	119
56-43.7938-107.1033-2-06-						0-W08256	6242	-55	-25	-4	100	1964	25	-25	-25	-200	-4	373
56-43.8044-107.1113-2-06-						0-W08257	10561	-55	-25	-4	145	2632	17	-25	-25	-200	-4	-50
56-43.8238-107.0888-2-06-						0-W08258	5196	-55	-25	-4	1035	1647	40	-25	-25	-200	-4	-50
56-43.8133-107.0488-2-07-						0-W08259	5983	-55	-25	-4	590	1674	20	-25	-25	-200	-4	-50
56-43.8583-107.0961-2-06-						0-W08260	6759	-55	-25	-4	1706	2087	60	-25	-25	-200	-4	-50
56-43.8402-107.0738-2-06-						0-W08261	10078	58	-25	-4	1090	2694	79	-25	-25	-200	-4	127
56-43.8794-107.1083-2-06-						0-W08262	96158	208	-25	-4	362	45273	35	-25	-25	-200	-4	163
56-43.8838-107.0800-2-10-						0-W08263	55939	-55	-25	-4	452	19550	46	-25	-25	-200	-4	124
56-43.8977-107.0766-2-06-						0-W08264	100000	158	-25	-4	399	46575	44	-25	-25	-200	-4	163
56-43.9083-107.0283-2-07-						0-W08265	122000	147	-25	-4	910	61397	93	-25	-25	-200	17	235
56-43.8222-106.8555-2-08-						0-W08266	873000	845	71	66	670	211000	102	-25	-25	-200	81	1432
56-43.8138-106.8361-2-06-						0-W08267	889000	777	80	54	438	210000	66	-25	-25	-200	69	757
56-43.7972-106.8527-2-08-						0-W08268	912000	861	98	61	888	220000	115	-25	-25	-200	98	1511
56-43.7861-106.8375-2-08-						0-W08269	1379000	1037	165	89	1055	301000	159	-25	37	-200	135	1945
56-43.8277-106.8250-2-06-						0-W08270	723000	762	132	46	334	175000	60	-25	28	-200	95	505
56-43.9872-107.0366-2-10-						0-W08271	96095	214	26	11	1026	36964	65	125	30	-200	57	151
56-43.9788-107.0594-2-10-						0-W08272	5449	-55	48	10	732	1687	64	78	46	528	32	-50
56-43.9805-107.1194-2-06-						0-W08273	102000	165	77	17	579	42280	39	177	80	661	62	130
56-43.9783-107.0838-2-10-						0-W08274	93920	196	91	20	468	57487	127	194	88	796	57	196
56-43.9616-107.0944-2-10-						0-W08275	56141	64	48	7	177	25905	32	130	59	407	34	110
56-43.9511-107.0572-2-10-						0-W08276	94172	108	-25	-4	132	49454	27	-25	-25	-200	-4	175
56-43.9555-107.0327-2-06-						0-W08277	134000	122	-25	9	372	42207	31	56	-25	-200	20	117

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																									
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (θ) UNITS IN ppb
56-	43.9577-	107.0472-	2-	06-		0-W08278-	07/14/76-	10-	20-	9.0-	-	-	6.1-	290-		11-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	4-	1-	-1-	-	-	-	-	0.40
56-	43.9283-	107.0911-	2-	06-		0-W08279-	07/14/76-	10-	20-	10.0-	-	-	6.5-	300-		9-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	3-	1-	-1-	-	-	-	-	0.25
56-	43.9238-	107.0588-	2-	06-		0-W08280-	07/14/76-	10-	20-	9.0-	-	-	6.3-	270-		14-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.9127-	107.0516-	2-	06-		0-W08281-	07/14/76-	11-	25-	9.0-	-	-	6.8-	350-		9-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	3-	1-	-1-	-	-	-	-	0.84
56-	43.9044-	107.0338-	2-	06-		0-W08282-	07/14/76-	11-	25-	11.0-	-	-	6.5-	375-		6-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	3-	1-	-1-	-	-	-	-	0.72
56-	43.8972-	106.9875-	2-	06-		0-W08283-	07/14/76-	11-	25-	16.0-	-	-	6.8-	330-		8-	1-	7-	-	-3-	3-	1-	-4-	3-	4-	1-	-1-	-	-	-	-	-	0.33
56-	43.8694-	106.9138-	2-	07-		0-W08285-	07/14/76-	12-	25-	15.0-	-	-	6.4-	325-		9-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	4-	1-	-1-	-	-	-	-	0.39
56-	43.8694-	106.9055-	2-	06-		0-W08286-	07/14/76-	12-	25-	12.0-	-	-	6.3-	350-		11-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	4-	1-	-1-	-	-	-	-	0.37
56-	43.8472-	106.9694-	2-	06-		0-W08287-	07/14/76-	13-		-12.0-	-	-	6.3-	325-		6-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	4-	1-	-1-	-	-	-	-	0.17
56-	43.8333-	106.9638-	2-	06-		0-W08288-	07/14/76-	13-	27-	12.0-	-	-	6.3-	350-		6-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	4-	1-	-1-	-	-	-	-	0.63
56-	43.8166-	106.9611-	2-	06-		0-W08289-	07/14/76-	13-	27-	14.0-	-	-	6.8-	420-		9-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	4-	1-	-1-	-	-	-	-	0.20
56-	43.7805-	106.9069-	2-	06-		0-W08291-	07/14/76-	14-	28-	13.0-	-	-	6.8-	400-		11-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	2-	1-	-1-	-	-	-	-	0.57
56-	43.6266-	107.0875-	2-	06-		0-W08292-	07/14/76-	20-	20-	12.0-	-	-	6.9-	250-		9-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	4-	1-	-1-	-	-	-	-	0.10
56-	43.8067-	107.3611-	2-	07-		0-W08300-	08/07/76-	10-	33-	18.5-	-	-	6.8-	2400-		12-	1-	4-	4-	4-	2-	3-	1-	2-	4-	3-	2-	1-	-1-	-	-	-	-	25.80*
56-	43.5294-	107.6153-	2-	06-		0-W08301-	08/07/76-	11-	34-	14.0-	-	-	6.1-	400-		9-	1-	7-	6-	8-	2-	-	-1-	-3-	3-	3-	1-	-1-	-	-	-	-	3.85
56-	43.5367-	107.6067-	2-	06-		0-W08302-	08/07/76-	11-	34-	12.0-	-	-	6.3-	350-		12-	1-	7-	4-	6-	2-	-	-1-	-3-	2-	3-	1-	-1-	-	-	-	-	3.62
56-	43.5342-	107.5783-	2-	07-		0-W08303-	08/07/76-	12-	36-	18.0-	-	-	6.5-	500-		9-	1-	7-	4-	8-	2-	3-	1-	2-	4-	2-	2-	1-	-1-	-	-	-	-	3.31
56-	43.5061-	107.6025-	2-	06-		0-W08304-	08/07/76-	12-	34-	12.0-	-	-	7.0-	800-		16-	1-	7-	6-	8-	2-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	0.56
56-	43.5128-	107.5903-	2-	06-		0-W08305-	08/07/76-	12-	34-	11.0-	-	-	6.5-	500-		11-	1-	7-	5-	6-	2-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	4.09
56-	43.5417-	107.5383-	2-	08-		0-W08309-	08/07/76-	13-	34-	10.0-	-	-	6.8-	450-		11-	1-	7-	-	-2-	-1-	-3-	2-	2-	1-	-1-	7-	-	-	-	-	-	5.22
56-	43.5472-	107.5133-	2-	07-		0-W08310-	08/07/76-	13-	34-	18.0-	-	-	6.9-	500-		3-	1-	7-	5-	6-	2-	3-	2-	2-	3-	3-	2-	1-	-1-	-	-	-	-	3.88
56-	43.5519-	107.4969-	2-	10-		0-W08311-	08/07/76-	13-	34-	21.0-	C-	-	6.9-	500-		8-	1-	7-	7-	7-	1-	3-	1-	-4-	3-	2-	1-	-1-	-	-	-	-	3.14
56-	43.5628-	107.4725-	2-	07-		0-W08312-	08/07/76-	13-	34-	22.0-	-	-	6.6-	210-		16-	1-	7-	5-	6-	2-	3-	1-	2-	4-	3-	3-	1-	-1-	-	-	-	-	0.86
56-	43.5953-	107.4736-	2-	06-		0-W08313-	08/07/76-	14-	34-	20.5-	-	-	6.9-	1100-		12-	1-	7-	5-	6-	2-	2-	2-	-4-	2-	2-	1-	-1-	-	-	-	-	2.47
56-	43.6317-	107.5069-	2-	06-		0-W08314-	08/07/76-	14-	34-	12.0-	C-	-	6.9-	1400-		16-	1-	7-	-	-2-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	-	2.09
56-	43.7022-	107.5278-	2-	06-		0-W08320-	09/07/76-	15-	34-	12.0-	-	-	7.8-	1500-		16-	1-	7-	-	-2-	-1-	-3-	3-	2-	1-	-1-	-	-	-	-	-	-	0.10
56-	43.6767-	107.6100-	2-	08-		0-W08323-	08/07/76-	17-	32-	17.0-	C-	-	7.8-	1500-		14-	1-	7-	-	-2-	-1-	-3-	2-	2-	1-	-1-	9-	-	-	-	-	-	0.20
56-	43.6950-	107.4886-	2-	06-		0-W08326-	08/07/76-	17-	32-	14.0-	C-	-	7.2-	1700-		4-	1-	7-	-	-2-	-1-	-3-	4-	2-	1-	-1-	-	-	-	-	-	-	0.27
56-	43.6828-	107.4597-	2-	06-		0-W08328-	09/07/76-	18-	30-	12.0-	-	-	6.4-	400-		9-	1-	7-	6-	8-	2-	-	-1-	-2-	3-	2-	1-	-1-	-	-	-	-	0.10
56-	43.5117-	107.4086-	2-	06-		0-W08332-	08/08/76-	8-	16-	8.0-	-	-	6.6-	285-		16-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	-	0.56
56-	43.5011-	107.3914-	2-	06-		0-W08333-	08/09/76-	8-	16-	9.0-	-	-	6.3-	270-		16-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	-	0.65
56-	43.5325-	107.3847-	2-	06-		0-W08334-	08/08/76-	9-	16-	8.0-	-	-	6.6-	330-		6-	1-	7-	5-	6-	3-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	0.17
56-	43.6378-	107.3917-	2-	07-		0-W08337-	08/08/76-	9-	26-	13.0-	-	-	7.1-	300-		6-	1-	7-	4-	6-	2-	3-	1-	2-	2-	3-	2-	1-	-1-	-	-	-	-	1.66
56-	43.6694-	107.3261-	2-	07-		0-W08339-	08/08/76-	10-	30-	15.0-	-	-	6.9-	650-		11-	1-	7-	4-	4-	2-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	3.50
56-	43.6808-	107.3069-	2-	07-		0-W08340-	08/08/76-	10-	30-	18.0-	-	-	6.9-	1600-		17-	1-	7-	6-	8-	2-	3-	1-	2-	4-	3-	2-	1-	-1-	-	-	-	-	7.11
56-	43.6742-	107.3028-	2-	07-		0-W08342-	08/08/76-	10-	30-	13.0-	-	-	6.9-	500-		8-	1-	7-	4-	6-	2-	3-	1-	2-	2-	3-	2-	1-	-1-	-	-	-	-	1.89
56-	43.6803-	107.3083-	2-	08-		0-W08344-	09/08/76-	10-	32-	14.0-	C-	-	6.9-	400-		11-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	1-	-1-	9-	-	-	-	-	2.50
56-	43.5478-	107.4208-	2-	07-		0-W08345-	09/09/76-	7-	15-	9.0-	-	-	6.9-	260-		16-	1-	7-	-	-3-	3-	1-	1-	3-	3-	3-	1-	-1-	-	-	-	-	0.49
56-	43.9803-	107.9519-	2-	08-		0-W08346-	09/06/76-	12-	33-	20.5-	C-	-	6.3-	4400-		12-	1-	6-	-	-	-	-	-	-4-	3-	1-	1-	-1-	4-	-	-	-	-	24.30*
56-	43.9594-	107.9700-	2-	06-		0-W08347-	09/06/76-	12-	33-	12.5-	C-	-	6.3-	42000-		7-	1-	6-	-	-4-	3-	1-	-4-	3-	1-	1-	-1-	-	-	-	-	-	25.90*
56-	43.9258-	107.9792-	2-	08-		0-W08348-	09/06/76-	13-	34-	20.5-	C-	-	6.6-	3200-		9-	1-	1-	-	-	-	-	-	-4-	3-	1-	1-	-1-	5-	-200-		-		3.13
56-	43.9944-	107.9253-	2-	08-		0-W08354-	09/06/76-	15-	34-	14.0-	C-	-	6.9-	2700-		10-	1-	1-	-	-	-	-	-	-4-	3-	1-	1-	-1-	9-	6-	40-	38-		39.00*
56-	43.9950-	107.9028-	2-	08-		0-W08355-	09/06/76-	15-	33-	13.0-	-	-	6.3-	33000-		4-	1-	1-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	3-	6-	250-	-		11.40*
56-	43.9378-	107.8292-	2-	08-		0-W08357-	09/06/76-	16-	32-	15.0-	C-	-	7.2-	2200-		12-	1-	1-	-	-2-	-1-	-4-	3-	3-	1-	-1-	9-	-	-	-			1.71
56-	43.9292-	107.5167-	2-	10-		0-W08366-	09/07/76-	13-	29-	24.0-	-	-	6.4-	250-		15-	1-	6-	5-	7-	1-	2-	5-	-3-	2-	3-	1-	-1-	-	-	-	-		0.58
56-	43.9111-	107.5158-	2-	08-		0-W08367-	09/07/76-	14-	30-	16.5-	C-	-	8.1-	3700-		7-	1-	1-	-	-	-	-	-	-3-	3-	3-	1-	-1-	-	-	-	-		2.66
56-	43.8594-	107.5472-	2-	10-		0-W08375-	09/07/76-	17-	30-	25.5-	-	-	6.6-	310-		11-	1-	6-	5-	7-	1-	3-	5-	-3-	2-	3-	1-	-1-	-	-	-	-		0.82
56-	43.9483-	107.5572-	2-	10-		0-W08377-	09/07/76-	19-	31-	19.0-	-	-	6.6-	280-		9-	1-	7-	4-	1-	-4-	4-	-4-	-3-	3-	1-	-1-	-	-	-	-	-		1.67
56-	43.8206-	107.5442-	2-	08-		0-W08378-	09/07/76-	18-	29-	15.0-	C-	-	6.6-	350-		9-	1-	6-	-	-	-	-6-	-4-	-2-	3-	1-	-9-	9-	-	-	-	-		0.10
56-	43.7653-	107.5383-	2-	08-		0-W08382-	09/09/76-	12-	27-	31.5-	C-	-	6.5-	245-		12-	1-	7-	-	-	-	-	-	-4-	3-	2-	1-	-9-	-	-	-	-		0.10
56-	43.7742-	107.4403-	2-	10-		0-W08389-	09/09/76-	14-	27-	28.0-	-	-	6.6-	410-		9-	1-	6-	5-	6-	1-	2-	-	-4-	3-	3-	2-	-1-	-	-	-	-		1.07

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.9577-107.0472-2-06-						0-W08278	78047	118	-25	-4	122	37028	12	-25	-25	-200	-4	164
56-43.9283-107.0911-2-06-						0-W08279	127000	208	84	21	456	61847	46	220	81	693	52	217
56-43.9238-107.0588-2-06-						0-W08280	65947	82	-25	-4	140	34188	8	-25	-25	-200	-4	156
56-43.9127-107.0516-2-06-						0-W08281	93918	174	114	19	445	65491	33	234	120	1208	63	101
56-43.9044-107.0338-2-06-						0-W08282	77865	152	-25	-4	379	61844	28	45	-25	-200	-4	93
56-43.8972-106.9875-2-06-						0-W08283	81459	133	-25	9	646	20585	1565	122	-25	-200	15	83
56-43.8694-106.9138-2-07-						0-W08285	74739	122	-25	12	616	47954	90	95	-25	293	31	157
56-43.8694-106.9055-2-06-						0-W08286	95052	153	49	19	502	57932	63	157	-25	610	36	174
56-43.8472-106.9694-2-06-						0-W08287	78921	198	-25	12	241	49598	85	75	-25	-200	-4	190
56-43.8333-106.9638-2-06-						0-W08288	88303	138	27	16	3126	51803	157	157	-25	425	188	198
56-43.8166-106.9611-2-06-						0-W08289	141000	272	76	23	592	74801	205	209	45	741	48	230
56-43.7805-106.9069-2-06-						0-W08291	84585	198	-25	10	210	48279	79	-25	-25	-200	-4	122
56-43.6266-107.0875-2-06-						0-W08292	74942	114	-25	5	147	22020	44	30	-25	-200	-4	120
56-43.8067-107.3611-2-07-						0-W08300	548000	515	38	31	351	167000	110	-25	-25	-200	55	573
56-43.5294-107.6153-2-06-						0-W08301	61210	-55	-25	-4	150	27454	7	35	-25	-200	-4	75
56-43.5367-107.6067-2-06-						0-W08302	58956	114	-25	-4	88	27093	5	-25	-25	-200	-4	93
56-43.5342-107.5783-2-07-						0-W08303	77125	126	-25	7	401	34891	45	-25	-25	-200	-4	141
56-43.5061-107.6025-2-06-						0-W08304	104000	121	-25	-4	203	18802	763	-25	-25	-200	-4	189
56-43.5128-107.5903-2-06-						0-W08305	62563	-55	-25	-4	150	15173	26	46	-25	-200	-4	179
56-43.5417-107.5383-2-08-						0-W08309	85349	175	-25	-4	240	32722	29	75	-25	-200	-4	136
56-43.5472-107.5133-2-07-						0-W08310	75736	156	-25	12	251	34528	29	83	-25	-200	13	139
56-43.5519-107.4969-2-10-						0-W08311	41022	82	-25	-4	258	34452	50	56	-25	-200	14	267
56-43.5628-107.4725-2-07-						0-W08312	48698	-55	-25	10	492	15897	24	80	-25	-200	27	72
56-43.5953-107.4736-2-06-						0-W08313	63699	116	-25	-4	311	11188	218	38	-25	-200	21	-50
56-43.6317-107.5069-2-06-						0-W08314	123000	193	-25	9	831	23942	525	51	-25	-200	15	97
56-43.7022-107.5279-2-06-						0-W08320	4402	-55	-25	-4	173	1461	27	-25	-25	-200	-4	-50
56-43.6767-107.6100-2-08-						0-W08323	2416	-55	-25	-4	101	350	-3	-25	-25	-200	13	-50
56-43.6950-107.4886-2-06-						0-W08326	7965	-55	-25	-4	270	1570	73	-25	-25	-200	5	115
56-43.6828-107.4597-2-06-						0-W08328	67027	-55	-25	22	590	4359	201	115	-25	-200	24	185
56-43.5117-107.4086-2-06-						0-W08332	55961	-55	60	13	156	17651	20	137	54	595	43	282
56-43.5011-107.3914-2-06-						0-W08333	52061	129	-25	5	154	16622	24	-25	-25	-200	-4	99
56-43.5325-107.3847-2-06-						0-W08334	65083	123	-25	17	607	26339	30	-25	-25	-200	15	175
56-43.6378-107.3917-2-07-						0-W08337	51796	137	-25	-4	83	19978	13	-25	-25	-200	18	157
56-43.6694-107.3261-2-07-						0-W08339	211000	265	-25	10	180	52453	70	49	-25	-200	14	291
56-43.6808-107.3069-2-07-						0-W08340	433000	526	34	26	209	93793	101	-25	-25	-200	44	479
56-43.6742-107.3028-2-07-						0-W08342	99364	180	-25	7	324	30704	29	27	-25	-200	8	220
56-43.6803-107.3083-2-08-						0-W08344	71768	113	-25	-4	509	31247	54	-25	-25	-200	-4	199
56-43.5478-107.4208-2-07-						0-W08345	66550	168	-25	5	302	20488	31	-25	-25	-200	-4	185
56-43.9803-107.9519-2-08-						0-W09346	148000	215	-25	18	386	54225	63	43	-25	-200	9	1490
56-43.9594-107.9700-2-06-						0-W08347	115000	172	-25	14	115	52478	24	-25	-25	-200	-4	245
56-43.9258-107.9792-2-08-						0-W08348	33701	-55	-25	11	592	8031	82	-25	-25	-200	-4	1037
56-43.9944-107.9253-2-08-						0-W08354	115000	127	-25	35	167	44805	-3	-25	-25	-200	-4	376
56-43.9950-107.9028-2-08-						0-W08355	202000	213	-25	27	181	57558	88	46	-25	-200	14	1109
56-43.9378-107.8292-2-08-						0-W08357	5982	-55	-25	-4	94	4244	-3	-25	-25	-200	-4	292
56-43.9292-107.5167-2-10-						0-W08366	52492	78	-25	20	640	11481	191	93	-25	-200	18	82
56-43.9111-107.5158-2-08-						0-W08367	7279	-55	-25	36	358	5208	55	-25	-25	-200	-4	519
56-43.8594-107.5472-2-10-						0-W08375	25767	-55	-25	16	200	11883	8	-25	-25	-200	-4	-50
56-43.9483-107.5572-2-10-						0-W08377	45357	146	-25	95	2669	13432	83	-25	-25	-200	-4	903
56-43.8206-107.5442-2-08-						0-W08378	30795	60	-25	15	7416	10678	344	-25	-25	-200	-4	344
56-43.7653-107.5383-2-08-						0-W08382	15537	-55	46	25	248	2089	12	-25	63	281	11	116
56-43.7742-107.4403-2-10-						0-W08398	118000	221	-25	52	1066	16400	296	-25	38	-200	-4	323

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
56-43.7075-107.6369-2-10-						0-W08393-08/10/76-	-	28-22.0-	-	-	6.4-		440-	12-1-7-5-7-1-3-2-	-4-3-3-2-	-1-	-	-	-	-	1.11
56-43.7261-107.6311-2-10-						0-W08394-08/10/76-	9-	23-21.5-	-	-	6.3-		270-	12-1-6-6-5-1-3-1-	-4-2-3-2-	-1-	-	-	-	-	0.10
56-43.7322-107.7056-2-08-						0-W08399-08/10/76-11-		25-40.0-C-	-	-	7.5-		1400-	9-1-6-	- - - -1-	-4-2-3-3-	-1-9-12-	-	-	-	0.58
56-43.9156-107.7553-2-08-						0-W08416-08/10/76-19-		23-15.0-C-	-	-	6.6-		3300-	8-1-1-	- - - -1-	-3-2-2-2-	-9-9-	-	-	-	0.46
56-43.6486-107.2475-2-06-						0-W08417-08/08/76-12-		30- 8.0-	-	-	6.6-		420-	12-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	0.89
56-43.6711-107.2408-2-06-						0-W08418-08/08/76-12-		30- 9.0-	-	-	6.8-		470-	9-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	1.00
56-43.6767-107.2328-2-07-						0-W08419-08/08/76-12-		32-15.0-	-	-	6.9-		210-	8-1-7-5-4-3-3-1-2-4-3-3-1-		-1-	-	-	-	-	0.49
56-43.7019-107.2578-2-08-						0-W08421-08/08/76-14-		35-15.0-C-	-	-	6.6-		270-	16-1-7-	- -3-3-1-	-4-3-3-1-	-1-9-	-	-	-	2.34
56-43.7639-107.3000-2-06-						0-W08424-08/09/76-13-		30-17.0-	-	-	7.2-		360-	9-1-7-6-6-3-3-1-	-4-2-3-1-	-1-	-	-	-	-	4.86
56-43.8581-107.3050-2-07-						0-W08430-08/09/76-15-		30-14.0-	-	-	6.6-		230-	13-1-7-6-6-3-3-3-1-2-4-3-2-1-		-1-	-	-	-	-	1.46
56-43.8625-107.3047-2-07-						0-W08431-08/09/76-16-		30-18.0-	-	-	6.6-		300-	9-1-7-6-4-3-3-1-2-4-3-2-1-		-1-	-	-	-	-	0.84
56-43.8742-107.3403-2-07-						0-W08434-08/09/76-16-		30-20.0-	-	-	6.9-		350-	9-1-7-4-6-3-3-2-2-4-3-2-1-		-1-	-	-	-	-	1.21
56-43.8819-107.3517-2-08-						0-W08435-08/09/76-15-		30-15.0-	-	-	6.9-		600-	11-1-7- - -3-3-1-	-4-3-2-1-	-1-4-	-	-	-	-	5.29
56-43.8903-107.3303-2-06-						0-W08436-08/09/76-16-		30-14.0-	-	-	6.3-		340-	12-1-7-5-6-3-3-1-	-3-3-2-1-	-1-	-	-	-	-	19.95
56-43.9133-107.3017-2-06-						0-W08438-08/09/76-17-		30-20.0-	-	-	6.4-		490-	9-1-7-6-6-1-2-3-	-4-3-2-1-	-1-	-	-	-	-	0.10
56-43.9361-107.2867-2-07-						0-W08440-08/09/76-17-		30-17.0-	-	-	6.6-		440-	11-1-7-5-4-3-3-1-2-4-3-2-1-		-1-	-	-	-	-	2.09
56-43.9383-107.2914-2-07-						0-W08441-08/09/76-17-		30-12.0-	-	-	6.6-		37-	6-1-7-5-6-3-3-1-2-4-3-2-1-		-1-	-	-	-	-	6.09
56-43.9372-107.2925-2-07-						0-W08442-08/09/76-17-		30-20.0-	-	-	6.6-		425-	8-1-7-5-6-3-3-1-2-4-3-2-1-		-1-	-	-	-	-	2.10
56-43.9358-107.3089-2-07-						0-W08443-08/09/76-18-		28-18.0-	-	-	6.9-		300-	3-1-7-4-6-3-3-1-2-4-3-2-1-		-1-	-	-	-	-	12.80*
56-43.9381-107.3161-2-08-						0-W08444-08/09/76-18-		25-14.0-	-	-	6.8-		320-	9-1-7- - -3-3-1-	-4-3-2-1-	-1-4-	-	-	-	-	3.14
56-43.9700-107.2983-2-08-						0-W08445-08/09/76-18-		25-13.0-	-	-	6.9-		350-	9-1-7- - -3-3-1-	-4-3-2-1-	-1-8-	-	-	-	-	2.82
56-43.9367-107.3419-2-07-						0-W08446-08/09/76-18-		25-20.0-	-	-	6.5-		400-	12-1-7-5-4-3-3-3-2-4-3-3-1-		-1-	-	-	-	-	4.01
56-43.9817-107.1747-2-10-						0-W08449-08/14/76-11-		28-20.0-	-	-	7.2-		350-	8-1-7-5-6-2-3-2-	-3-3-3-1-	-1-	-	-	-	-	0.69
56-43.9056-107.2256-2-06-						0-W08451-08/14/76-12-		28-10.0-	-	-	6.6-		200-	9-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	0.36
56-43.8875-107.2008-2-10-						0-W08452-08/14/76-13-		30-12.0-	-	-	6.9-		240-	6-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	0.10
56-43.9228-107.1825-2-06-						0-W08453-08/14/76-13-		30- 9.0-	-	-	5.8-		50-	9-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	0.10
56-43.9172-107.1331-2-06-						0-W08455-08/14/76-15-		30- 9.0-	-	-	6.9-		250-	12-1-7-5-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	-	0.17
56-43.8650-107.1764-2-06-						0-W08456-08/14/76-14-		30- 9.0-	-	-	5.6-		70-	11-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	0.19
56-43.8494-107.1625-2-06-						0-W08458-08/14/76-14-		30-10.0-	-	-	5.6-		60-	8-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	0.10
56-43.9764-107.1319-2-06-						0-W08459-08/14/76-15-		30- 8.0-	-	-	6.9-		200-	8-1-7-5-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	-	0.15
56-43.8486-107.2461-2-06-						0-W08460-08/14/76-15-		30-10.0-	-	-	6.3-		150-	12-1-7-5-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	-	0.34
56-43.8139-107.2128-2-06-						0-W08461-08/14/76-15-		30- 9.0-	-	-	6.0-		200-	6-1-7-5-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	-	0.24
56-43.8053-107.2436-2-07-						0-W08462-08/14/76-17-		30-11.0-	-	-	6.3-		200-	4-1-7-5-6-3-3-1-2-4-3-3-1-		-1-	-	-	-	-	0.45
56-43.7878-107.2239-2-06-						0-W08463-08/14/76-17-		30- 8.0-	-	-	6.6-		250-	8-1-7-5-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	-	0.10
56-43.7589-107.2100-2-06-						0-W08464-08/14/76-17-		30- 8.0-	-	-	6.5-		220-	4-1-7-5-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	-	0.10
56-43.6567-107.1414-2-06-						0-W08465-08/14/76-10-		22-14.0-	-	-	6.5-		230-	11-1-7-5-6-2- -1-	-4-3-3-1-	-1-	-	-	-	-	0.10
56-43.7222-107.1872-2-06-						0-W08466-08/14/76-10-		24-11.0-	-	-	5.3-		50-	17-1-7-5-6-2- -1-	-4-2-3-1-	-1-	-	-	-	-	0.10
56-43.7219-107.1892-2-07-						0-W08467-08/14/76-10-		24-10.0-	-	-	6.2-		100-	19-1-7-5-6-2-3-1-2-3-3-3-1-		-1-	-	-	-	-	0.10
56-43.7464-107.1856-2-06-						0-W08468-08/14/76-10-		26- 9.0-	-	-	5.4-		74-	9-1-7-5-6-2- -1-	-3-3-2-1-	-1-	-	-	-	-	0.10
56-43.7475-107.2111-2-06-						0-W08469-08/14/76-10-		26-10.0-	-	-	5.3-		60-	3-1-7-5-6-2- -1-	-3-3-2-1-	-1-	-	-	-	-	0.10
56-43.7222-107.1672-2-06-						0-W08470-08/14/76-11-		26- 9.5-	-	-	5.4-		48-	8-1-7-5-6-2- -1-	-3-4-3-1-	-1-	-	-	-	-	0.27
56-43.7069-107.1561-2-06-						0-W08471-08/14/76-11-		26-10.5-	-	-	5.2-		55-	11-1-7-4-6-2- -1-	-3-3-3-1-	-1-	-	-	-	-	0.18
56-43.6822-107.1406-2-06-						0-W08472-08/14/76-12-		26-15.0-	-	-	5.6-		120-	19-1-7-5-6-2- -1-	-4-3-2-1-	-1-	-	-	-	-	0.74
56-43.6378-107.1842-2-07-						0-W08473-08/14/76-12-		28-13.5-	-	-	6.4-		250-	8-1-7-5-6-2-3-1-2-3-3-3-1-		-1-	-	-	-	-	0.10
56-43.6036-107.2025-2-06-						0-W08474-08/14/76-13-		28- 9.5-	-	-	5.3-		35-	12-1-7-5-6-2- -1-	-3-3-3-1-	-1-	-	-	-	-	0.83
56-43.5775-107.2189-2-06-						0-W08475-08/14/76-13-		28- 9.0-C-	-	-	5.2-		40-	17-1-7- - -2- -1-	-3-3-3-1-	-1-	-	-	-	-	0.10
56-43.5656-107.2397-2-06-						0-W08476-08/14/76-14-		26- 9.5-	-	-	5.2-		120-	11-1-7-5-6-2- -1-	-3-3-4-1-	-1-	-	-	-	-	0.10
56-43.5569-107.2111-2-06-						0-W08477-08/14/76-14-		26-10.0-	-	-	5.3-		40-	17-1-7-5-6-2- -1-	-4-2-2-1-	-1-	-	-	-	-	0.10
56-43.5342-107.2372-2-06-						0-W08478-08/14/76-14-		26-11.0-	-	-	5.4-		70-	17-1-7-4-6-2- -1-	-1-3-3-1-	-1-	-	-	-	-	0.20
56-43.5175-107.2275-2-06-						0-W08479-08/14/76-15-		26- 9.0-	-	-	5.2-		150-	9-1-7-4-6-2- -1-	-1-3-3-1-	-1-	-	-	-	-	0.29
56-43.5167-107.1444-2-06-						0-W08481-08/14/76-15-		24-10.0-	-	-	5.6-		200-	17-1-7-4-6-2- -1-	-3-3-2-1-	-1-	-	-	-	-	0.29

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.7075-107.6369-2-10-						0-W08393	67013	159	34	18	319	10173	54	-25	40	-200	-4	316
56-43.7261-107.6311-2-10-						0-W08394	36400	138	-25	14	408	9267	48	-25	31	-200	-4	268
56-43.7322-107.7056-2-08-						0-W08399	1359	90	-25	-4	247	262	8	29	-25	-200	-4	256
56-43.9156-107.7553-2-08-						0-W08416	56323	184	-25	25	347	19343	150	-25	-25	-200	-4	313
56-43.6486-107.2475-2-06-						0-W08417	153000	310	60	24	289	82359	27	-25	70	405	-4	404
56-43.6711-107.2408-2-06-						0-W08418	81560	207	-25	5	177	45411	21	-25	-25	-200	-4	620
56-43.6767-107.2328-2-07-						0-W08419	57657	136	80	24	178	23772	15	27	71	335	-4	184
56-43.7019-107.2578-2-08-						0-W08421	74327	222	-25	18	178	36388	22	-25	34	-200	-4	213
56-43.7639-107.3000-2-06-						0-W08424	103000	300	-25	15	433	44329	33	-25	-25	-200	-4	288
56-43.8581-107.3050-2-07-						0-W08430	95960	288	62	24	352	35776	31	-25	71	-200	-4	353
56-43.8625-107.3047-2-07-						0-W08431	65743	226	52	17	307	27559	31	-25	59	-200	-4	235
56-43.8742-107.3403-2-07-						0-W08434	193000	210	-25	-4	819	54934	57	-25	-25	-200	-4	297
56-43.8819-107.3517-2-08-						0-W08435	222000	275	-25	754	336	51080	23	-25	-25	-200	-4	348
56-43.8903-107.3303-2-06-						0-W08436	745000	648	26	55	474	158000	45	-25	-25	-200	-4	574
56-43.9133-107.3017-2-06-						0-W08438	88995	-55	-25	18	622	15697	30	-25	-25	-200	-4	99
56-43.9361-107.2867-2-07-						0-W08440	98156	76	-25	17	661	40710	38	-25	-25	-200	-4	439
56-43.9383-107.2914-2-07-						0-W08441	396000	423	-25	23	202	70991	25	-25	-25	-200	-4	394
56-43.9372-107.2925-2-07-						0-W08442	171000	237	-25	24	780	52574	49	-25	45	-200	-4	231
56-43.9358-107.3089-2-07-						0-W08443	586000	533	50	37	328	88214	49	-25	-25	-200	-4	429
56-43.9381-107.3161-2-08-						0-W08444	99671	125	-25	-4	102	39340	13	-25	-25	-200	-4	206
56-43.9700-107.2983-2-08-						0-W08445	95696	118	-25	7	146	38284	15	-25	27	-200	-4	201
56-43.9367-107.3419-2-07-						0-W08446	429000	428	99	35	352	96500	66	-25	52	-200	-4	2451
56-43.9817-107.1747-2-10-						0-W08449	48926	-55	-25	48	1704	12398	92	-25	-25	-200	44	174
56-43.9056-107.2256-2-06-						0-W08451	36316	90	-25	14	285	16391	26	-25	36	-200	-4	-50
56-43.8875-107.2008-2-10-						0-W08452	87111	123	41	15	243	39216	47	-25	57	-200	-4	135
56-43.9228-107.1825-2-06-						0-W08453	11101	-55	-25	8	3103	4068	43	-25	62	-200	114	62
56-43.9172-107.1331-2-06-						0-W08455	67439	166	-25	9	175	31941	26	-25	-25	-200	-4	84
56-43.8650-107.1764-2-06-						0-W08456	13358	77	-25	13	5774	5018	117	-25	95	-200	275	-50
56-43.8494-107.1625-2-06-						0-W08458	9518	-55	-25	18	1165	2960	40	-25	34	-200	9	67
56-43.9764-107.1319-2-06-						0-W08459	64909	-55	51	16	177	30522	26	-25	65	-200	-4	116
56-43.8486-107.2461-2-06-						0-W08460	84986	169	-25	8	310	41422	31	-25	34	-200	-4	190
56-43.8139-107.2128-2-06-						0-W08461	67959	125	-25	7	212	33336	20	-25	-25	-200	-4	121
56-43.8053-107.2436-2-07-						0-W08462	66873	137	78	8	55	30577	15	-25	68	-200	-4	141
56-43.7878-107.2239-2-06-						0-W08463	55333	85	-25	-4	-25	25007	10	-25	-25	-200	-4	72
56-43.7589-107.2100-2-06-						0-W08464	73943	119	-25	9	157	33707	20	-25	-25	-200	-4	159
56-43.6567-107.1414-2-06-						0-W08465	62715	192	-25	-4	217	15177	25	-25	-25	-200	-4	171
56-43.7222-107.1872-2-06-						0-W08466	16001	-55	31	-4	130	3411	9	32	47	-200	-4	56
56-43.7219-107.1892-2-07-						0-W08467	20027	61	-25	5	979	4176	38	-25	-25	-200	-4	99
56-43.7464-107.1856-2-06-						0-W08468	33249	85	67	11	8655	12183	147	-25	46	-200	-4	201
56-43.7475-107.2111-2-06-						0-W08469	9243	104	-25	-4	217	2796	4	-25	-25	-200	-4	122
56-43.7222-107.1672-2-06-						0-W08470	7083	66	41	-4	211	2154	-3	40	51	-200	-4	71
56-43.7069-107.1561-2-06-						0-W08471	8207	-55	93	9	269	2474	6	102	98	476	51	55
56-43.6822-107.1406-2-06-						0-W08472	57584	99	-25	-4	118	15348	41	-25	28	-200	-4	155
56-43.6378-107.1842-2-07-						0-W08473	8083	150	-25	-4	165	1827	23	-25	-25	-200	-4	-50
56-43.6036-107.2025-2-06-						0-W08474	4392	-55	126	21	198	1321	33	164	177	1041	54	64
56-43.5775-107.2189-2-06-						0-W08475	5433	64	80	9	136	1385	33	139	127	687	41	87
56-43.5656-107.2397-2-06-						0-W08476	33993	229	-25	-4	401	3172	468	-25	-25	-200	-4	352
56-43.5569-107.2111-2-06-						0-W08477	8896	134	-25	-4	85	1363	62	-25	-25	-200	-4	-50
56-43.5342-107.2372-2-06-						0-W08478	15386	120	-25	-4	190	3046	44	-25	-25	-200	-4	98
56-43.5175-107.2275-2-06-						0-W08479	78052	127	-25	10	583	13903	71	-25	-25	-200	-4	353
56-43.5167-107.1444-2-06-						0-W08481	59844	68	-25	-4	85	10532	27	-25	-25	-200	-4	316

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
56	-43.5269	-107.1275	-2	-06	-	0-W08482	-08/14/76	-16	-	24-12.0	-	-	-	5.5	-	240	-	8	-1	-7	-5	-6	-2	-	-1	-	-3	-3	-3	-1	-	-1	-	-	-	-	0.10
56	-43.5594	-107.1583	-2	-06	-	0-W08483	-08/14/76	-16	-	24-13.0	-	-	-	5.2	-	35	-	4	-1	-7	-5	-6	-2	-	-1	-	-4	-3	-3	-1	-	-1	-	-	-	-	0.10
56	-43.5708	-107.1631	-2	-06	-	0-W08484	-08/14/76	-16	-	24-10.0	-	-	-	5.6	-	60	-	6	-1	-7	-5	-6	-2	-	-1	-	-4	-3	-3	-1	-	-1	-	-	-	-	0.10
56	-43.5806	-107.1461	-2	-07	-	0-W08485	-08/14/76	-16	-	22-14.0	-	-	-	6.0	-	90	-	14	-1	-7	-5	-6	-2	-3	-1	-2	-4	-2	-2	-1	-	-1	-	-	-	-	0.38
56	-43.6083	-107.1297	-2	-06	-	0-W08486	-08/14/76	-17	-	20-10.0	-	-	-	5.3	-	240	-	16	-1	-7	-4	-6	-2	-	-1	-	-3	-3	-3	-2	-	-1	-	-	-	-	0.10
56	-43.7597	-107.1675	-2	-06	-	0-W08487	-08/14/76	-17	-	30-10.0	-	-	-	6.9	-	270	-	8	-1	-7	-5	-6	-3	-3	-1	-	-3	-3	-3	-1	-	-1	-	-	-	-	0.10
56	-43.7719	-107.1414	-2	-06	-	0-W08488	-08/14/76	-17	-	30- 9.0	-	-	-	6.6	-	300	-	6	-1	-7	-5	-6	-3	-3	-1	-	-4	-3	-3	-1	-	-1	-	-	-	-	0.36
56	-43.7750	-107.1822	-2	-06	-	0-W08489	-08/14/76	-16	-	30- 9.0	-	-	-	6.5	-	220	-	4	-1	-7	-5	-6	-3	-3	-1	-	-4	-3	-3	-1	-	-1	-	-	-	-	0.10
56	-43.7969	-107.1819	-2	-06	-	0-W08490	-08/14/76	-16	-	30- 9.0	-	-	-	6.8	-	230	-	9	-1	-7	-5	-6	-3	-3	-1	-	-3	-3	-3	-1	-	-1	-	-	-	-	0.10
56	-43.8033	-107.1614	-2	-06	-	0-W08491	-08/14/76	-16	-	30- 8.0	-	-	-	6.3	-	300	-	8	-1	-7	-5	-6	-3	-3	-1	-	-3	-3	-3	-1	-	-1	-	-	-	-	0.10
56	-43.8178	-107.1664	-2	-06	-	0-W08492	-08/14/76	-16	-	30- 9.0	-	-	-	6.5	-	250	-	8	-1	-7	-5	-6	-3	-3	-1	-	-3	-3	-3	-1	-	-1	-	-	-	-	0.30
56	-43.8931	-107.9422	-2	-07	-	0-W08538	-09/01/76	-10	-	23-16.0	-	-	-	6.3	-	600	-	15	-1	-7	-5	-6	-3	-3	-1	-	-4	-3	-2	-1	-	-1	-	-	-	-	5.63
56	-43.7672	-107.8283	-2	-07	-	0-W08533	-09/01/76	-15	-	30-16.0	-	-	-	6.6	-	3200	-	12	-1	-7	-5	-6	-2	-2	-3	-	-4	-3	-2	-1	-	-1	-	-	-	-	7.13
56	-43.6036	-107.9947	-2	-08	-	0-W08537	-09/02/76	-15	-	34-17.0	-	-	-	6.5	-	600	-	10	-1	-4	-	-	-	-	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	3.71
56	-43.5872	-107.2639	-2	-06	-	0-W09540	-09/01/76	-12	-	35-22.0	-	-	-	6.3	-	34	-	19	-1	-7	-6	-8	-3	-3	-1	-	-3	-2	-3	-1	-	-1	-	-	-	-	0.79
56	-43.5239	-107.2767	-2	-06	-	0-W08541	-09/01/76	-12	-	35-15.0	-	-	-	6.6	-	50	-	19	-1	-7	-4	-6	-3	-3	-1	-	-3	-2	-3	-1	-	-1	-	-	-	-	0.10
56	-43.5381	-107.2822	-2	-06	-	0-W09542	-09/01/76	-13	-	29-13.0	-C	-	-	6.9	-	65	-	16	-1	-7	-	-	-3	-3	-1	-	-3	-2	-3	-1	-	-1	-	-	-	-	0.10
56	-43.5547	-107.2878	-2	-07	-	0-W08543	-09/01/76	-13	-	29-20.0	-	-	-	6.9	-	120	-	16	-1	-7	-4	-6	-3	-3	-1	-	-3	-2	-3	-1	-	-1	-	-	-	-	0.45
56	-43.5550	-107.3100	-2	-06	-	0-W08544	-09/01/76	-14	-	29-15.0	-	-	-	6.3	-	420	-	19	-1	-7	-6	-8	-3	-3	-1	-	-3	-2	-3	-1	-	-1	-	-	-	-	1.08
56	-43.5539	-107.3422	-2	-07	-	0-W09545	-09/01/76	-14	-	27-17.0	-	-	-	6.6	-	280	-	9	-1	-7	-4	-6	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	0.10
56	-43.5422	-107.3556	-2	-06	-	0-W08546	-09/01/76	-14	-	27-17.0	-	-	-	6.3	-	360	-	6	-1	-7	-5	-6	-3	-3	-1	-	-3	-2	-3	-1	-	-1	-	-	-	-	0.27
56	-43.5067	-107.3472	-2	-06	-	0-W09547	-09/01/76	-15	-	25-17.0	-	-	-	6.9	-	260	-	12	-1	-7	-5	-6	-3	-3	-1	-	-3	-2	-3	-1	-	-1	-	-	-	-	0.10
56	-43.6167	-107.7672	-2	-07	-	0-W08548	-09/02/76	-10	-	25-16.0	-	-	-	6.6	-	4000	-	9	-1	-7	-5	-6	-3	-3	-1	-	-4	-3	-2	-1	-	-1	-	-	-	-	12.00*
56	-43.5922	-107.7083	-2	-06	-	0-W08554	-09/02/76	-12	-	29-23.0	-	-	-	7.2	-	1100	-	6	-1	-7	-6	-8	-2	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	2.66
56	-43.5650	-107.7028	-2	-07	-	0-W08555	-09/02/76	-13	-	33-21.0	-	-	-	6.6	-	550	-	16	-1	-7	-3	-6	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	1.00
56	-43.5772	-107.6733	-2	-07	-	0-W08556	-09/02/76	-13	-	35-20.0	-	-	-	6.3	-	470	-	12	-1	-7	-3	-6	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	2.18
56	-43.5439	-107.7350	-2	-07	-	0-W08557	-09/02/76	-14	-	32-20.0	-	-	-	6.6	-	600	-	12	-1	-7	-4	-6	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	1.78
56	-43.5217	-107.7583	-2	-07	-	0-W08558	-09/02/76	-15	-	32-22.0	-	-	-	6.9	-	500	-	16	-1	-7	-5	-8	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	1.98
56	-43.5222	-107.7600	-2	-07	-	0-W08559	-09/02/76	-15	-	32-20.0	-	-	-	6.6	-	550	-	16	-1	-7	-4	-6	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	1.06
56	-43.5189	-107.7911	-2	-07	-	0-W08560	-09/02/76	-16	-	30-10.0	-	-	-	6.3	-	600	-	6	-1	-7	-3	-6	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	1.11
56	-43.5467	-107.8011	-2	-07	-	0-W08562	-09/02/76	-16	-	30-20.0	-	-	-	6.9	-	650	-	19	-1	-7	-3	-6	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	1.18
56	-43.5456	-107.8039	-2	-07	-	0-W08563	-09/02/76	-16	-	30-20.0	-	-	-	6.6	-	650	-	16	-1	-7	-5	-6	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	1.63
56	-43.5828	-107.8261	-2	-07	-	0-W08564	-09/02/76	-17	-	31-20.0	-	-	-	6.6	-	800	-	12	-1	-7	-4	-8	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	0.99
56	-43.5406	-107.8628	-2	-07	-	0-W09567	-09/02/76	-17	-	31-20.0	-	-	-	6.3	-	700	-	9	-1	-7	-3	-4	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	2.58
56	-43.5403	-107.8611	-2	-07	-	0-W08568	-09/02/76	-17	-	31-20.0	-	-	-	6.9	-	800	-	9	-1	-7	-4	-6	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	3.50*
56	-43.5394	-107.8739	-2	-07	-	0-W09569	-09/02/76	-18	-	27-19.0	-	-	-	6.6	-	700	-	16	-1	-7	-5	-4	-3	-3	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	2.19
56	-43.6117	-107.8478	-2	-07	-	0-W08571	-09/02/76	-18	-	27-20.0	-	-	-	6.6	-	900	-	12	-1	-7	-6	-8	-2	-2	-2	-	-3	-2	-2	-2	-	-1	-	-	-	-	1.90
56	-43.6800	-107.8925	-2	-08	-	0-W08575	-09/01/76	-14	-	32-13.0	-C	-	-	6.8	-	1000	-	11	-1	-7	-	-	-3	-3	-1	-	-6	-3	-1	-1	-	-1	9	-	-	-	0.21
56	-43.6728	-107.9678	-2	-06	-	0-W08582	-09/01/76	-15	-	30-16.0	-	-	-	6.9	-	1500	-	11	-1	-7	-	-	-	-	-1	-	-3	-2	-2	-1	-	-1	-	-	-	-	0.89
56	-43.7208	-107.9342	-2	-07	-	0-W08584	-09/01/76	-17	-	28-	-	-	-	6.9	-	2000	-	9	-1	-7	-4	-6	-2	-3	-1	-2	-2	-2	-2	-1	-	-1	-	-	-	-	7.37
56	-43.6875	-107.9806	-2	-08	-	0-W08586	-09/01/76	-18	-	30-13.0	-	-	-	6.8	-	1300	-	9	-1	-7	-	-	-	-	-1	-	-3	-2	-2	-1	-	-1	1	-	-	-	0.10
56	-43.5844	-107.9250	-2	-06	-	0-W08589	-09/02/76	-16	-	33-	-	-	-	6.9	-	1500	-	9	-1	-6	-5	-8	-2	-2	-1	-	-3	-2	-3	-1	-	-1	-	-	-	-	3.26
56	-43.5583	-107.8894	-2	-06	-	0-W08591	-09/02/76	-16	-	34-13.0	-	-	-	6.6	-	950	-	13	-1	-6	-5	-7	-2	-2	-1	-	-3	-2	-3	-1	-	-1	-	-	-	-	2.86
56	-43.5239	-107.9889	-2	-06	-	0-W09593	-09/04/76	-14	-	34-15.0	-	-	-	6.3	-	1900	-	9	-1	-7	-5	-6	-2	-2	-1	-	-3	-3	-3	-2	-	-1	-	-	-	-	11.40*
56	-43.5125	-107.9761	-2	-06	-	0-W08594	-09/04/76	-13	-	34-15.0	-	-	-	6.5	-	2400	-	6	-1	-7	-5	-6	-2	-2	-1	-	-4	-3	-3	-2	-	-1	-	-	-	-	17.30*
56	-43.4339	-107.6639	-2	-06	-	0-W08605	-09/29/77	-10	-	14- 8.0	-	-	-	6.3	-	350	-	11	-1	-7	-5	-6	-3	-3	-1	-	-3	-3	-3	-1	-	-1	-	-	-	-	2.33
56	-43.4361	-107.6639	-2	-07	-	0-W08606	-09/29/77	-10	-	14- 7.0	-	-	-	6.1	-	350	-	16	-1	-7	-5	-6	-3	-3	-1	-	-3	-3	-3	-1	-	-1	-	-	-	-	3.07
56	-43.4211	-107.6619	-2	-08	-	0-W08607	-09/29/77	-	-	- 8.0	-	-	-	6.1	-	80	-	8	-1	-7	-	-	-3	-3	-1	-	-3	-3	-3	-1	-	-1	3	-	-	-	0.84
56	-43.2778	-107.6889	-2	-08	-	0-W08609	-09/29/77	-10	-	14-10.0	-	-	-	6.6	-	6000	-	16	-1	-7	-	-	-3	-3	-1	-	-3	-3	-3	-1	-	-1	8	-	-	-	46.26*
56	-43.1131	-107.6794	-2	-08	-	0-W08618	-09/29/77	-17	-	15-10.0	-	-	-	6.3	-	1500	-	15	-1	-7	-	-	-3	-3	-3	-	-4	-3	-3	-1	-	-1	3	-	-	-	0.25
56	-43.0917	-107.7536	-2	-08	-	0-W09543	-10/03/77	-18	-	14- 9.0	-	-	-	6.8	-	3400	-	16	-1	-7	-	-	-3	-3	-1	-	-3	-3	-3	-1	-	-1	3	-	-	-	1.55

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.5269-	107.1275-	2-06-				0-W08482	51216	149	-25	-4	61	27360	14	-25	-25	-200	-4	146
56-43.5594-	107.1583-	2-06-				0-W08483	19503	-55	-25	-4	114	1872	-3	-25	-25	-200	-4	79
56-43.5708-	107.1631-	2-06-				0-W08484	21131	230	59	17	461	1990	-3	38	80	226	-4	172
56-43.5806-	107.1461-	2-07-				0-W08485	24523	256	81	12	238	2286	-3	48	84	-200	-4	127
56-43.6083-	107.1297-	2-06-				0-W08486	158000	216	-25	-4	258	12228	25	-25	-25	-200	-4	183
56-43.7597-	107.1675-	2-06-				0-W08487	106000	255	-25	5	206	46314	33	-25	-25	-200	-4	268
56-43.7719-	107.1414-	2-06-				0-W08488	98944	202	-25	-4	138	42877	28	-25	-25	-200	-4	189
56-43.7750-	107.1822-	2-06-				0-W08489	77207	247	-25	-4	176	36949	19	-25	-25	-200	-4	197
56-43.7969-	107.1819-	2-06-				0-W08490	184000	399	34	25	362	85059	42	-25	-25	-200	-4	322
56-43.8033-	107.1614-	2-06-				0-W08491	90161	158	-25	14	364	42367	36	-25	48	-200	-4	210
56-43.8178-	107.1664-	2-06-				0-W08492	197000	349	40	25	283	91263	36	-25	83	-200	-4	286
56-43.8931-	107.9422-	2-07-				0-W08508	96991	193	-25	16	166	29763	26	-25	-25	-200	-4	201
56-43.7672-	107.8283-	2-07-				0-W08533	179000	239	-25	32	348	124000	35	-25	43	-200	-4	321
56-43.6036-	107.9947-	2-08-				0-W08537	203000	353	-25	21	1755	36293	93	-25	-25	-200	-4	4609
56-43.5872-	107.2639-	2-06-				0-W08540	73032	187	-25	12	114	21185	41	-25	28	-200	-4	430
56-43.5239-	107.2767-	2-06-				0-W08541	8447	93	-25	6	382	2158	86	-25	46	-200	-4	269
56-43.5381-	107.2822-	2-06-				0-W08542	10914	112	-25	11	441	2917	38	-25	62	-200	-4	245
56-43.5547-	107.2878-	2-07-				0-W08543	25730	132	-25	17	296	6315	46	-25	-25	-200	-4	293
56-43.5550-	107.3100-	2-06-				0-W08544	75363	229	-25	-4	153	31957	105	-25	-25	-200	-4	304
56-43.5539-	107.3422-	2-07-				0-W08545	41280	78	-25	8	264	14621	24	-25	-25	-200	-4	-50
56-43.5422-	107.3556-	2-06-				0-W08546	57386	121	-25	14	412	38229	24	-25	-25	-200	-4	175
56-43.5067-	107.3472-	2-06-				0-W08547	48118	59	-25	7	432	11294	93	-25	-25	-200	-4	-50
56-43.6167-	107.7672-	2-07-				0-W08548	593000	654	-25	32	447	231000	39	-25	-25	-200	20	680
56-43.5922-	107.7083-	2-06-				0-W08554	90979	217	-25	15	321	38868	23	-25	-25	-200	-4	77
56-43.5650-	107.7028-	2-07-				0-W08555	91680	257	-25	-4	281	32598	23	-25	-25	-200	-4	70
56-43.5772-	107.6733-	2-07-				0-W08556	81879	169	-25	-4	305	29710	58	-25	-25	-200	-4	120
56-43.5439-	107.7350-	2-07-				0-W08557	114000	162	-25	19	1037	43966	56	-25	-25	-200	-4	120
56-43.5217-	107.7583-	2-07-				0-W08558	104000	196	-25	15	211	34580	77	-25	-25	-200	-4	146
56-43.5222-	107.7600-	2-07-				0-W08559	111000	186	-25	13	301	37541	50	-25	-25	-200	-4	65
56-43.5189-	107.7911-	2-07-				0-W08560	89428	-55	-25	23	856	18597	110	-25	-25	-200	-4	158
56-43.5467-	107.8011-	2-07-				0-W08562	76040	123	-25	7	350	19589	43	-25	-25	-200	-4	74
56-43.5456-	107.8039-	2-07-				0-W08563	79154	143	-25	17	221	24206	39	-25	-25	-200	-4	106
56-43.5828-	107.8261-	2-07-				0-W08564	105000	210	-25	15	182	28897	37	-25	-25	-200	-4	106
56-43.5406-	107.8628-	2-07-				0-W08567	89652	212	-25	16	491	39254	55	-25	-25	-200	-4	100
56-43.5403-	107.8611-	2-07-				0-W08568	65014	135	-25	25	313	27110	77	-25	-25	-200	-4	116
56-43.5394-	107.8739-	2-07-				0-W08569	90555	181	-25	21	449	44989	35	-25	-25	-200	-4	100
56-43.6117-	107.8478-	2-07-				0-W08571	86940	-55	-25	18	476	25934	45	-25	-25	-200	-4	77
56-43.6800-	107.8925-	2-08-				0-W08575	4147	164	-25	6	210	1079	22	-25	-25	-200	-4	-50
56-43.6728-	107.9678-	2-06-				0-W08582	11141	62	-25	-4	210	3047	22	-25	-25	-200	-4	-50
56-43.7208-	107.9342-	2-07-				0-W08584	138000	291	-25	14	575	110000	46	-25	-25	-200	-4	231
56-43.6875-	107.9806-	2-08-				0-W08586	6440	100	49	5	-25	1825	8	52	58	310	14	-50
56-43.5844-	107.9250-	2-06-				0-W08589	444000	423	-25	44	347	119000	1335	-25	-25	-200	34	670
56-43.5583-	107.8894-	2-06-				0-W08591	122000	222	52	40	252	63296	138	-25	-25	-200	-4	175
56-43.5239-	107.9889-	2-06-				0-W08593	475000	547	-25	167	189	106000	34	-25	-25	-200	20	1215
56-43.5125-	107.9761-	2-06-				0-W08594	586000	589	76	36	126	133000	8	-25	-25	-200	59	571
56-43.4339-	107.6639-	2-06-				0-W08605	77399	128	-25	18	447	35204	20	134	-25	337	18	191
56-43.4361-	107.6639-	2-07-				0-W08606	99297	192	-25	17	287	44665	26	174	55	445	24	199
56-43.4211-	107.6619-	2-08-				0-W08607	88969	184	-25	12	1757	36136	64	102	-25	-200	14	855
56-43.2778-	107.6889-	2-08-				0-W08609	236000	394	46	25	210	82087	75	125	50	386	35	550
56-43.1131-	107.6794-	2-08-				0-W08618	173000	308	-25	13	988	54048	496	85	-25	-200	20	1421
56-43.0917-	107.7536-	2-08-				0-W08643	63094	117	-25	30	5829	6450	248	62	30	-200	24	3080

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
56	43.0867	107.5489	2	08	0	W08646	10/05/77	7	7	8.0	-	-	6.2	1400	16	1	7	-	-	3	3	2	-	3	3	3	3	3	-	1	3	-	-	-	0.10
56	43.0717	107.5406	2	08	0	W08647	10/05/77	7	7	9.0	-	-	5.5	2000	16	1	7	-	-	3	3	1	-	3	3	3	3	3	-	1	3	-	-	-	0.16
56	43.0550	107.5358	2	08	0	W08650	10/05/77	8	8	9.0	-	-	6.3	1300	16	1	7	-	-	3	3	1	-	3	3	3	3	3	-	1	1	-	-	-	0.02
56	43.0556	107.5717	2	08	0	W08652	10/05/77	9	8	9.0	-	-	5.7	1600	25	1	7	-	-	3	3	1	-	3	3	3	3	3	-	1	1	-	-	-	0.01
56	43.0022	106.1061	2	08	0	W08659	11/01/77	10	8	9.0	-	-	6.5	1600	8	1	7	-	-	3	3	1	-	3	3	3	3	3	-	1	-	-	-	-	6.89
56	43.0197	106.1117	2	08	0	W08661	11/01/77	10	9	9.0	-	-	6.5	1200	10	1	7	-	-	3	3	1	-	3	3	3	3	3	-	1	1	-	-	-	5.20
56	43.0147	106.1269	2	08	0	W08662	11/01/77	10	10	8.0	-	-	6.5	1600	8	1	7	-	-	3	3	1	-	3	3	3	3	3	-	1	1	-	-	-	11.47
56	43.0250	106.0511	2	08	0	W08664	11/01/77	10	10	9.0	-	-	6.8	1100	10	1	7	-	-	3	3	1	-	3	3	3	3	3	-	1	1	-	-	-	9.15
56	43.4172	106.6814	2	08	0	W08675	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32
56	43.4539	106.6581	2	08	0	W08676	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20
56	43.4475	106.7139	2	06	0	W08677	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.56
56	43.4850	106.7103	2	08	0	W08678	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.11
56	43.4917	106.7953	2	06	0	W08679	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.14*
56	43.4933	106.7367	2	06	0	W08680	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.54
56	43.4483	106.7700	2	08	0	W08682	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.92
56	43.4517	106.7936	2	06	0	W08683	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.22*
56	43.4317	106.7844	2	08	0	W08684	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.77*
56	43.4308	106.7897	2	06	0	W08685	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.73
56	43.4211	106.8206	2	08	0	W08687	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.55
56	43.4236	106.8419	2	06	0	W08688	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.21
56	43.4158	106.8553	2	06	0	W08689	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.07
56	43.4022	106.8647	2	06	0	W08690	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.44
56	43.4989	106.8994	2	07	0	W08692	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.55
56	43.4578	106.8400	2	06	0	W08696	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.22*
56	43.4628	106.4497	2	08	0	W08699	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11
56	43.4306	106.4644	2	08	0	W08701	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05
56	43.4117	106.4394	2	08	0	W08704	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14
56	43.4100	106.5489	2	06	0	W08706	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14
56	43.3758	106.7361	2	08	0	W08707	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.58
56	43.3906	106.6836	2	08	0	W08708	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.56
56	43.4161	106.6478	2	08	0	W08709	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37
56	43.3961	106.6456	2	08	0	W08710	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24
56	43.4089	106.6222	2	08	0	W08711	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49
56	43.4175	106.5975	2	08	0	W08712	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45
56	43.4436	106.5594	2	08	0	W08713	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.17
56	43.4314	106.5797	2	06	0	W08714	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.81
56	43.3803	106.6108	2	08	0	W08718	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.58
56	43.3942	106.4528	2	08	0	W08719	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.68
56	43.3939	106.3847	2	08	0	W08721	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.94
56	43.3964	106.2811	2	08	0	W08725	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
56	43.4117	106.2756	2	08	0	W08726	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.24
56	43.4097	106.2775	2	08	0	W08727	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.83
56	43.7800	106.2631	2	08	0	W08733	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22
56	43.7967	106.2825	2	08	0	W08734	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.44
56	43.8125	106.3072	2	08	0	W08735	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61
56	43.8178	106.3250	2	08	0	W08736	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.34
56	43.8289	106.2306	2	08	0	W08741	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22
56	43.8800	106.1883	2	08	0	W08742	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
56	43.9217	106.1725	2	08	0	W08746	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09
56	43.9417	106.1575	2	08	0	W08747	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16
56	43.9783	106.2200	2	08	0	W08752	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	SYSTEM		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.0867-107.5489-2-08-						0-W08646	215000	356	40	22	667	60200	666	127	30	-200	28	12820
56-43.0717-107.5406-2-08-						0-W08647	250000	695	77	47	7953	151000	5045	138	474	913	41	1448
56-43.0550-107.5358-2-08-						0-W08650	196000	303	40	19	638	55463	634	152	54	-200	32	11637
56-43.0556-107.5717-2-08-						0-W08652	203000	498	70	42	6630	126000	4165	206	384	1221	42	1313
56-43.0022-106.1061-2-08-						0-W08659	144000	330	-25	26	301	84758	1492	145	-25	832	20	362
56-43.0197-106.1117-2-08-						0-W08661	115000	291	29	30	263	69078	1253	172	61	1039	23	297
56-43.0147-106.1269-2-08-						0-W08662	164000	372	51	82	298	94380	1733	97	68	1260	30	388
56-43.0250-106.0511-2-08-						0-W08664	80858	183	-25	46	347	45557	296	78	74	373	17	184
56-43.4172-106.6814-2-08-						0-W08675	48589	134	-25	49	1532	16144	142	47	57	237	36	233
56-43.4539-106.6581-2-08-						0-W08676	70486	176	-25	35	1897	23158	196	50	49	231	40	328
56-43.4475-106.7139-2-06-						0-W08677	64357	112	-25	33	3110	21198	196	50	45	-200	49	345
56-43.4850-106.7103-2-08-						0-W08678	272000	459	34	37	845	85490	1393	-25	51	-200	34	964
56-43.4917-106.7953-2-06-						0-W08679	909000	959	192	147	1551	216000	660	-25	176	-200	125	1241
56-43.4933-106.7367-2-06-						0-W08680	34950	95	-25	38	634	15426	300	61	99	444	28	283
56-43.4483-106.7700-2-08-						0-W08682	6506	-55	-25	176	124	3877	13	32	-25	-200	8	118
56-43.4517-106.7936-2-06-						0-W08683	65941	149	30	36	255	46821	42	42	-25	558	13	180
56-43.4317-106.7844-2-08-						0-W08684	101000	259	28	53	575	56857	31	88	-25	844	26	540
56-43.4308-106.7897-2-06-						0-W08685	59507	196	-25	26	1442	33311	65	52	-25	369	25	219
56-43.4211-106.8206-2-08-						0-W08687	67914	116	37	10	319	32593	15	55	35	636	32	118
56-43.4236-106.8419-2-06-						0-W08688	135000	265	47	29	485	53094	38	43	46	457	49	499
56-43.4158-106.8553-2-06-						0-W08689	80762	149	29	12	276	32453	20	34	31	293	30	205
56-43.4022-106.8647-2-06-						0-W08690	71557	128	-25	5	152	27950	14	-25	-25	-200	17	219
56-43.4989-106.8994-2-07-						0-W08692	137000	302	81	23	425	58443	28	45	73	955	60	380
56-43.4578-106.8400-2-06-						0-W08696	713000	709	143	42	478	78330	37	-25	116	-200	95	696
56-43.4628-106.4497-2-08-						0-W08699	4225	70	-25	13	225	1327	-3	-25	-25	-200	-4	82
56-43.4306-106.4644-2-08-						0-W08701	2835	-55	-25	-4	-25	961	-3	-25	-25	-200	-4	123
56-43.4117-106.4394-2-08-						0-W08704	1589	141	-25	-4	170	318	-3	-25	-25	-200	-4	56
56-43.4100-106.5489-2-06-						0-W08706	175000	438	-25	13	208	94368	106	166	-25	1851	8	501
56-43.3758-106.7361-2-08-						0-W08707	2258	165	-25	22	91	642	17	-25	-25	-200	-4	193
56-43.3906-106.6836-2-08-						0-W08708	1532	169	-25	7	44	385	7	-25	-25	-200	-4	104
56-43.4161-106.6478-2-08-						0-W08709	1498	165	-25	9	510	393	-3	-25	38	-200	7	140
56-43.3961-106.6456-2-08-						0-W08710	1372	106	-25	-4	131	317	-3	-25	-25	-200	-4	118
56-43.4089-106.6222-2-08-						0-W08711	3526	183	-25	9	779	1302	15	-25	31	-200	28	134
56-43.4175-106.5975-2-08-						0-W08712	2442	210	-25	11	349	797	12	27	-25	-200	17	161
56-43.4436-106.5594-2-08-						0-W08713	26147	228	-25	7	90	15744	26	82	34	533	11	257
56-43.4314-106.5797-2-06-						0-W08714	18229	61	-25	17	44	11072	21	-25	-25	361	-4	102
56-43.3803-106.6108-2-08-						0-W08718	28718	136	-25	-4	100	17156	25	-25	-25	-200	-4	98
56-43.3942-106.4528-2-08-						0-W08719	1330	-55	-25	-4	139	369	-3	-25	-25	-200	-4	-50
56-43.3939-106.3847-2-08-						0-W08721	1043	-55	-25	-4	236	355	-3	-25	-25	-200	-4	-50
56-43.3964-106.2811-2-08-						0-W08725	247000	474	-25	26	303	52944	18	210	-25	2007	37	561
56-43.4117-106.2756-2-08-						0-W08726	266000	564	-25	26	450	58592	27	178	-25	1884	27	716
56-43.4097-106.2775-2-08-						0-W08727	63785	194	-25	33	159	25882	-3	65	-25	355	-4	180
56-43.7800-106.2631-2-08-						0-W08733	9378	69	-25	-4	107	2254	8	-25	-25	-200	-4	-50
56-43.7967-106.2825-2-08-						0-W08734	7422	-55	-25	6	108	2607	19	-25	-25	-200	-4	160
56-43.8125-106.3072-2-08-						0-W08735	14233	87	-25	32	1640	4860	47	64	-25	-200	26	252
56-43.8178-106.3250-2-08-						0-W08736	7226	122	-25	16	641	2313	14	34	-25	-200	8	242
56-43.8289-106.2306-2-08-						0-W08741	3545	159	-25	-4	132	1106	15	81	-25	-200	5	75
56-43.8800-106.1883-2-08-						0-W08742	3552	146	-25	101	1564	1277	28	58	-25	-200	24	194
56-43.9217-106.1725-2-08-						0-W08744	3566	198	38	7	415	740	25	61	59	281	18	244
56-43.9417-106.1575-2-08-						0-W08747	3154	89	-25	-4	655	700	20	-25	-25	-200	6	235
56-43.9783-106.2200-2-08-						0-W08752	4789	147	-25	-4	225	4964	7	57	-25	295	9	185

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
56-43.9981-106.3183-2-08-						0-W08755-11/26/77-12-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.33
56-43.9789-106.4342-2-08-						0-W08758-11/26/77-12-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.51
56-43.9481-106.4239-2-08-						0-W08769-11/26/77-12-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29
56-43.8836-106.4481-2-08-						0-W08770-11/26/77-12-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41
56-43.3578-106.2881-2-08-						0-W08778-08/21/77-12-			28-14.0-	-	-		7.8-	3300-	9-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	0.01
56-43.1725-106.2978-2-08-						0-W08781-08/21/77-14-			26-13.0-	-	-		6.9-	5000-	13-1-7-	-	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-									-	-	-	4.32
56-43.1536-106.3689-2-08-						0-W08782-08/21/77-14-			26-14.0-	-	-		6.7-	800-	6-1-7-	-	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-									-	-	-	6.46
56-43.2319-106.3117-2-08-						0-W08786-08/21/77-15-			26-13.0-	-	-		6.6-	700-	18-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	8.66
56-43.2406-106.3114-2-08-						0-W08787-08/21/77-15-			24-14.0-	-	-		6.9-	1700-	-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-160-	-	-	0.76
56-43.2439-106.3231-2-08-						0-W08789-08/21/77-15-			24-14.0-	-	-		7.8-	1700-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-									-	-	-	1.54
56-43.2517-106.3056-2-08-						0-W08791-08/21/77-16-			24-13.0-	-	-		7.6-	1600-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	2.07
56-43.3269-107.2406-2-06-						0-W08808-08/29/79-13-			24-14.0-	-	-		6.6-	2700-	18-1-7-4-	4-3-3-1-	-3-3-3-1-	-1-	-	-	-									-	-	-	0.70
56-43.3125-107.1822-2-06-						0-W08809-08/22/77-13-			24-11.0-	-	-		6.6-	2500-	13-1-4-	4-4-3-3-1-	-3-3-3-1-	-1-	-	-	-									-	-	-	5.85
56-43.4019-106.9861-2-08-						0-W08824-08/22/77-17-			22-12.0-	-	-		6.3-	350-	9-1-4-	-	-3-3-1-	-3-3-3-1-	- -8-	-	-	-									-	-	-	0.78
56-43.4150-106.9961-2-08-						0-W08825-08/22/77-17-			21-11.0-	-	-		6.3-	330-	11-1-4-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	0.95
56-43.3942-106.7628-2-08-						0-W08829-08/22/77-13-			18-11.0-	-	-		6.3-	600-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-7-	-	-	-									-	-	-	0.21
56-43.0653-106.6050-2-08-						0-W08831-08/23/77- 7-			19-14.0-	-	-		7.5-	1600-	6-1-7-	-	-3-3-1-	-4-3-3-1-	-1-8-	-	-	-									-	-	-	0.69
56-43.0106-106.5764-2-08-						0-W08832-08/23/77- 8-			20-	-C-	-		7.5-	3500-	9-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	6.92
56-43.1200-106.6211-2-08-						0-W08844-08/23/77-11-			23-14.0-	-	-		7.5-	1800-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	0.71
56-43.2422-107.2283-2-08-						0-W08859-08/24/77- 8-			17-13.0-	-	-		6.9-	3000-	9-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	5.95
56-43.1789-107.2569-2-08-						0-W08862-08/24/77- 8-			20-14.0-	-	-		7.2-	4200-	13-1-7-	-	-3-3-1-	-4-3-3-1-	-1-3-	-180-	-	-									-	-	-	0.50
56-43.1156-107.3486-2-08-						0-W08865-08/24/77- 9-			20-13.0-	-	-		6.9-	3200-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-									-	-	-	1.02
56-43.1133-107.3619-2-08-						0-W08866-08/24/77- 9-			20-12.0-	-	-		6.9-	3400-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-									-	-	-	1.20
56-43.1139-107.4450-2-08-						0-W08869-08/24/77-11-			22-11.0-	-	-		6.6-	3000-	11-1-7-	-	-3-3-1-	-4-3-3-1-	-1-3-	-	-	-									-	-	-	0.62
56-43.0986-107.4194-2-08-						0-W08870-08/24/77-11-			22-12.0-	-	-		7.2-	3500-	13-1-7-	-	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-									-	-	-	2.40
56-43.0706-107.4506-2-08-						0-W08871-08/24/77-11-			22-12.0-	-	-		6.7-	3200-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-									-	-	-	0.25
56-43.0433-107.4469-2-08-						0-W08872-08/24/77-11-			22-12.0-	-	-		7.2-	3600-	16-1-7-	-	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-									-	-	-	2.52
56-43.0797-107.4922-2-08-						0-W08875-08/24/77-12-			22-13.0-	-	-		7.4-	3400-	13-1-7-	-	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-									-	-	-	1.04
56-43.0986-107.4700-2-08-						0-W08877-08/24/77-13-			23-13.0-	-	-		6.6-	2300-	13-1-7-	-	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-									-	-	-	2.24
56-43.1128-107.4833-2-08-						0-W08878-08/24/77-13-			23-12.0-	-	-		6.7-	2500-	13-1-7-	-	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-									-	-	-	1.08
56-43.1189-107.4717-2-08-						0-W08879-08/24/77-13-			23-12.0-	-	-		6.6-	3000-	13-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	0.28
56-43.1272-107.4833-2-08-						0-W08880-08/24/77-14-			23-11.0-	-	-		6.9-	2500-	16-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	0.68
56-43.1378-107.4861-2-08-						0-W08882-08/24/77-14-			23-11.0-	-	-		6.8-	2600-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-									-	-	-	0.28
56-43.0717-107.2408-2-06-						0-W08889-08/25/77- 6-			15-11.0-	C-	-		6.7-	1300-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1- -	-	-	-									-	-	-	27.31
56-43.0711-107.1964-2-08-						0-W08892-08/25/77- 7-			16-13.0-	-	-		6.7-	5000-	18-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	0.82
56-43.1594-107.2139-2-08-						0-W08893-08/25/77- 7-			16-11.0-	-	-		6.6-	1600-	6-1-7-	-	-3-3-1-	-3-3-3-1-	-1-7-	-	-	-									-	-	-	2.65
56-43.1650-107.2200-2-08-						0-W08894-08/25/77- 7-			16-10.0-	-	-		6.6-	1500-	4-1-7-	-	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-									-	-	-	0.86
56-43.0628-107.1933-2-08-						0-W08901-08/25/77- 9-			18-11.0-	-	-		6.9-	4800-	20-1-7-	-	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-									-	-	-	0.56
56-43.0158-107.3022-2-08-						0-W08904-08/25/77-10-			18-12.0-	-	-		6.7-	2100-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-									-	-	-	0.11
56-43.0244-107.3289-2-08-						0-W08906-08/25/77-11-			18-12.0-	-	-		6.6-	2000-	13-1-7-	-	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-									-	-	-	0.15
56-43.1908-107.0175-2-08-						0-W08916-08/23/77-15-			23-	-	-		6.6-	2100-	23-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	0.30
56-43.1806-107.0683-2-08-						0-W08917-08/29/79-	-		23-12.0-	-	-			1560-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	1.75
56-43.1700-107.1028-2-08-						0-W08918-08/29/79-	-		-	-	-			4200-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	0.04
56-43.1131-107.0814-2-08-						0-W08924-08/30/77-14-			22-12.0-	-	-		7.4-	35000-	9-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	9.04*
56-43.1325-107.1681-2-08-						0-W08929-08/30/77-14-			21-13.0-	C-	-		7.2-	29000-	9-1-7-	-	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-									-	-	-	11.86
56-43.1175-106.9183-2-06-						0-W08933-08/30/77-15-			20-13.0-	-	-		6.9-	1600-	16-1-7-	-	-	- - -	-3-3-3-1-	-1- -	-	-	-									-	-	-	17.18
56-43.1219-106.9600-2-08-						0-W08935-08/30/77-17-			20-13.0-	-	-		6.9-	2300-	16-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-									-	-	-	0.99
56-43.1319-106.9442-2-08-						0-W08936-08/30/77-17-			20-14.0-	-	-		6.9-	1700-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-									-	-	-	39.70
56-43.1675-106.9825-2-08-						0-W08941-08/30/77-18-			18-13.0-	C-	-		6.9-	2500-	11-1-7-	-	-3-3-1-	-3-3-3-1-	-1-9-	-	-	-									-	-	-	1.28
56-43.3822-106.8156-2-06-						0-W08942-09/01/77-10-			20-12.0-	-	-		6.9-	500-	9-1-7-5-	6-3-3-1-	-4-3-3-1-	-1- -	-	-	-									-	-	-	7.22
56-43.3869-106.9186-2-06-						0-W08943-09/01/77-10-			20-11.0-	-	-		6.9-	1500-	11-1-7-5-	6-3-3-1-	-4-3-3-1-	-1- -	-	-	-									-	-	-	2.18

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.9981-106.3183-2-08-				0-		W08755	51579	296	-25	-4	84	39361	63	90	-25	808	5	261
56-43.9789-106.4342-2-08-				0-		W08758	21995	194	-25	5	513	7095	58	86	-25	353	14	315
56-43.9481-106.4239-2-08-				0-		W08769	24103	90	-25	-4	512	7595	56	-25	-25	-200	-4	181
56-43.8836-106.4481-2-08-				0-		W08770	67025	157	-25	11	550	22720	119	142	30	670	17	905
56-43.3578-106.2881-2-08-				0-		W08778	2961	131	-25	9	327	741	5	-25	-25	-200	-4	64
56-43.1725-106.2978-2-08-				0-		W08791	252000	585	-25	22	9612	160000	326	201	-25	3712	30	6479
56-43.1536-106.3689-2-08-				0-		W08792	69494	245	-25	77	296	31739	22	74	-25	468	-4	279
56-43.2319-106.3117-2-08-				0-		W08796	88504	301	-25	96	258	38669	27	114	-25	902	11	365
56-43.2406-106.3114-2-08-				0-		W08797	38057	162	-25	-4	108	23230	72	50	-25	493	5	114
56-43.2439-106.3231-2-08-				0-		W08799	11525	133	-25	-4	236	52393	7	-25	-25	561	-4	117
56-43.2517-106.3056-2-08-				0-		W08791	11878	153	-25	33	208	41756	18	-25	-25	274	-4	62
56-43.3269-107.2406-2-06-				0-		W08808	65609	43	-25	-4	118	14417	9	-25	-25	-200	-4	189
56-43.3125-107.1822-2-06-				0-		W08809	561000	701	73	43	712	96987	41	-25	28	-200	61	533
56-43.4019-106.9861-2-08-				0-		W08824	45018	156	-25	14	63	16644	7	36	-25	-200	-4	2081
56-43.4150-106.9961-2-08-				0-		W08825	52986	301	-25	20	80	19121	18	68	38	461	14	2477
56-43.3942-106.7628-2-08-				0-		W08829	32906	180	-25	16	170	9696	16	92	36	481	13	318
56-43.0653-106.6050-2-08-				0-		W08831	4309	105	27	13	119	1118	19	-25	34	350	12	247
56-43.0106-106.5764-2-08-				0-		W08832	106000	305	59	32	173	74816	435	114	-25	1213	21	793
56-43.1200-106.6211-2-08-				0-		W08844	3195	71	49	9	99	1611	23	41	37	326	7	-50
56-43.2422-107.2283-2-08-				0-		W08859	471000	786	98	41	212	135000	39	-25	37	-200	53	560
56-43.1789-107.2569-2-08-				0-		W08862	98288	201	-25	8	231	44463	48	56	-25	467	-4	448
56-43.1156-107.3486-2-08-				0-		W08865	185000	309	29	13	964	44679	190	142	-25	791	17	483
56-43.1133-107.3619-2-08-				0-		W08866	209000	391	-25	13	1097	50542	216	150	-25	783	18	402
56-43.1139-107.4450-2-08-				0-		W08869	118000	347	-25	10	160	25651	225	160	-25	619	9	556
56-43.0986-107.4194-2-08-				0-		W08870	44223	151	-25	13	378	12658	35	-25	-25	-200	-4	327
56-43.0706-107.4506-2-08-				0-		W08871	114000	208	-25	5	59	24796	219	176	-25	594	11	417
56-43.0433-107.4469-2-08-				0-		W08872	27017	-55	-25	9	212	7162	14	-25	-25	-200	-4	124
56-43.0797-107.4922-2-08-				0-		W08875	8199	-55	-25	-4	100	783	6	44	-25	-200	-4	74
56-43.0986-107.4700-2-08-				0-		W08877	9585	100	-25	12	120	870	9	39	-25	-200	-4	149
56-43.1128-107.4833-2-08-				0-		W08878	7813	88	-25	-4	83	736	-3	-25	-25	-200	-4	127
56-43.1189-107.4717-2-08-				0-		W08879	125000	335	-25	8	98	27685	242	191	-25	670	14	500
56-43.1272-107.4833-2-08-				0-		W08880	42882	143	-25	-4	112	14374	37	87	-25	323	5	305
56-43.1378-107.4861-2-08-				0-		W08882	43295	147	-25	-4	97	15690	40	51	-25	344	-4	222
56-43.0717-107.2408-2-06-				0-		W08889	5551	98	-25	-4	270	1449	20	-25	-25	-200	-4	197
56-43.0711-107.1964-2-08-				0-		W08892	33435	278	-25	-4	113	17575	37	51	-25	290	-4	214
56-43.1594-107.2139-2-08-				0-		W08893	49506	78	52	-4	76	25741	58	90	-25	732	23	168
56-43.1650-107.2200-2-08-				0-		W08894	43117	133	-25	8	61	21429	68	43	-25	264	-4	163
56-43.0628-107.1933-2-08-				0-		W08901	31900	-55	-25	-4	149	17065	34	36	-25	-200	-4	190
56-43.0158-107.3022-2-08-				0-		W08904	209000	480	48	19	12920	80440	3250	236	65	1627	24	13670
56-43.0244-107.3289-2-08-				0-		W08906	259000	577	50	23	15306	98859	3795	182	53	1408	33	16464
56-43.1908-107.0175-2-08-				0-		W08916	123000	226	86	29	214	29775	51	277	100	1539	43	317
56-43.1806-107.0683-2-08-				0-		W08917	199770	366	-25	13	3751	63446	158	-25	-25	-200	-4	440
56-43.1700-107.1028-2-08-				0-		W08918	2667	53	-25	88	277	1271	52	-25	-25	-200	-4	186
56-43.1131-107.0814-2-08-				0-		W08924	234000	852	-25	28	5236	355000	469	238	-25	8951	12	2741
56-43.1325-107.1681-2-08-				0-		W08929	299000	747	69	32	490	246000	1019	256	-25	5062	40	940
56-43.1175-106.9183-2-06-				0-		W08933	35775	220	80	12	202	16128	18	206	62	1003	29	129
56-43.1219-106.9600-2-08-				0-		W08935	37919	191	-25	5	65	12651	193	127	-25	284	-4	133
56-43.1319-106.9442-2-08-				0-		W08936	67120	220	69	17	187	30036	28	277	41	1147	26	226
56-43.1675-106.9825-2-08-				0-		W08941	71207	56	-25	15	69	22359	282	43	-25	616	15	200
56-43.3822-106.8156-2-06-				0-		W08942	69215	-55	-25	12	58	38507	18	55	-25	1123	17	205
56-43.3869-106.9186-2-06-				0-		W08943	151000	265	46	15	93	91707	59	113	-25	2430	32	304

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																									
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (θ) UNITS IN ppb
56-43.3508-106.8458-2-06-	0-W08948-09/01/77-11-	21-12.0-	-	-	6.5-	1500-	11-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	0.81
56-43.3442-106.8531-2-08-	0-W08949-09/01/77-12-	22-12.0-C-	-	6.3-	2000-	13-1-7-	- -3-3-1-	-3-3-3-1-	-1-9-	-	-	-	2.65
56-43.3483-106.9403-2-06-	0-W08952-09/01/77-13-	22-11.0-	-	-	6.9-	1900-	13-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	2.16
56-43.3469-106.9531-2-06-	0-W08953-09/01/77-13-	-12.0-	-	-	6.9-	1800-	16-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	1.13
56-43.3328-106.9133-2-06-	0-W08954-09/01/77-13-	-11.0-	-	-	6.9-	2000-	13-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	1.32
56-43.2828-106.8264-2-06-	0-W08962-09/01/77-15-	23-14.0-	-	-	7.5-	2500-	13-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	1.02
56-43.3217-106.7272-2-08-	0-W08967-09/02/77-12-	22-11.0-	-	-	6.9-	9000-	9-1-7- -	-3-3-1-	-3-3-3-1-	-1-4-	-	-	-	1.78
56-43.1381-106.7117-2-08-	0-W08982-09/03/77- 9-	20-13.0-	-	-	7.5-	15000-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-	10.01
56-43.1367-106.6408-2-08-	0-W08987-09/03/77-10-	21-11.0-	-	-	7.8-	2000-	6-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	1.35
56-43.8339-106.2206-2-08-	0-W09009-09/05/77-10-	20-13.0-	-	-	6.7-	400-	13-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	0.32
56-43.8408-106.2047-2-08-	0-W09011-09/05/77-10-	20-12.0-	-	-	6.9-	450-	13-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	0.07
56-43.8739-106.1828-2-08-	0-W09013-09/05/77-11-	21-12.0-	-	-	6.9-	500-	13-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	0.24
56-43.3144-107.0961-2-06-	0-W09037-08/29/79- -	-	-C-	-	-	355-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-	-	-	-	0.35
56-43.3144-107.0961-2-06-	0-W09037-08/29/79- -	-	-C-	-	-	355-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-	-	-	-	73.47*
56-43.3119-107.0903-2-08-	0-W09038-09/06/77-10-	20-13.0-	-	-	6.6-	1300-	11-1-7- -	-3-3-1-	-4-3-3-1-	-1-8-	-	-	-	74.04*
56-43.1986-107.3844-2-08-	0-W09072-09/06/77-17-	20-13.0-	-	-	7.2-	1000-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-	0.51
56-43.2131-107.3678-2-08-	0-W09074-09/06/77-17-	20-12.0-	-	-	7.2-	1100-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	0.61
56-43.2242-107.3014-2-08-	0-W09080-09/06/77-19-	19-11.0-	-	-	6.6-	7000-	13-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	3.04
56-43.2011-107.2819-2-08-	0-W09082-09/06/77-19-	19-11.0-	-	-	6.6-	9000-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-3-	6-	-	-	3.08
56-43.0075-107.0767-2-06-	0-W09086-09/07/77- 8-	19-14.0-	-	-	6.9-	3600-	6-1-7-4-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	4.04
56-43.0253-107.0694-2-06-	0-W09088-09/07/77- 8-	19-13.0-	-	-	6.9-	3000-	11-1-7-4-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	3.72
56-43.0325-106.9872-2-08-	0-W09091-08/29/79- -	-	-	-	-	3800-	11-1-7- -	-3-3-1-	-4-3-3-1-	-1-3-	-	-	-	15.00
56-43.0372-106.9083-2-08-	0-W09093-09/07/77-10-	21-11.0-	-	-	6.3-	600-	11-1-7- -	-3-3-1-	-4-3-3-1-	-1-3-	-	-	-	13.27
56-43.0422-106.9069-2-08-	0-W09094-09/07/77-10-	21-12.0-	-	-	6.3-	1000-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-1-	-	-	-	12.33
56-43.0289-106.8094-2-08-	0-W09099-09/07/77-12-	23-12.0-	-	-	6.5-	2800-	13-1-7- -	-3-3-1-	-2-3-3-1-	-1-1-	-	-	-	6.48
56-43.2119-106.8322-2-09-	0-W09107-09/07/77-14-	22-11.0-C-	-	-	6.6-	1800-	20-1-7- -	-3-3-1-	-3-3-3-1-	-1-9-	-	-	-	0.18
56-43.1692-106.7911-2-08-	0-W09113-09/07/77-15-	22-12.0-C-	-	-	6.6-	2000-	13-1-7- -	-3-3-1-	-3-3-3-1-	-1-9-	-	-	-	0.32
56-43.0358-106.7236-2-08-	0-W09124-09/07/77-17-	22-12.0-	-	-	6.6-	1000-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1- -	-	-	-	8.97
56-43.0283-106.7322-2-08-	0-W09126-09/07/77-18-	21-12.0-	-	-	6.6-	1100-	9-1-7- -	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-	7.35
56-43.4250-107.1908-2-07-	0-W09130-09/08/77- 9-	19- 9.0-	-	-	5.7-	120-	18-1-7-4-6-3-3-1-	-1-3-3-1-	-1- -	-	-	-	-	0.03
56-43.4578-107.2269-2-08-	0-W09131-09/08/77- 9-	19-10.0-	-	-	5.4-	50-	20-1-7- -	-3-3-1-	-1-3-3-1-	-1-7-	-	-	-	0.01
56-43.4631-107.2222-2-07-	0-W09132-09/08/77- 9-	19-10.0-	-	-	5.4-	50-	16-1-7-4-6-3-3-1-	-1-3-3-1-	-1- -	-	-	-	-	0.21
56-43.4700-107.2256-2-06-	0-W09133-09/08/77- 9-	19- 9.0-	-	-	5.4-	40-	18-1-7-5-6-3-3-1-	-1-3-3-1-	-1- -	-	-	-	-	0.02
56-43.4661-107.1794-2-08-	0-W09134-09/08/77-10-	20- 8.0-	-	-	6.3-	280-	18-1-7- -	-3-3-1-	-1-3-3-1-	-1-7-	-	-	-	0.63
56-43.4894-107.2300-2-08-	0-W09135-09/08/77-10-	20- 9.0-	-	-	5.6-	80-	18-1-7- -	-3-3-1-	-7- - - - -	-7-	-	-	-	0.01
56-43.4814-107.1108-2-06-	0-W09137-09/08/77-11-	20- 8.0-C-	-	-	6.2-	320-	13-1-7-5-6-3-3-1-	-4-3-3-1-	-1- -	-	-	-	-	0.44
56-43.4844-107.0672-2-06-	0-W09138-09/08/77-11-	20- 8.0-C-	-	-	6.2-	300-	13-1-7-5-6-3-3-1-	-4-3-3-1-	-1- -	-	-	-	-	0.22
56-43.4481-107.1417-2-06-	0-W09139-09/08/77-11-	20- 8.0-	-	-	6.5-	350-	16-1-7-5-6-3-3-1-	-3-3-1-1-	-1- -	-	-	-	-	0.47
56-43.4342-107.1461-2-07-	0-W09141-09/08/77-11-	20-10.0-	-	-	6.5-	380-	11-1-7-5-6-3-3-1-	-3-3-3-1-	-1- -	-	-	-	-	0.52
56-43.4467-107.1167-2-06-	0-W09142-09/08/77-12-	20- 9.0-	-	-	6.5-	400-	18-1-7-5-6-3-3-1-	-3-3-3-1-	-1- -	-	-	-	-	0.46
56-43.4586-107.0994-2-07-	0-W09144-09/08/77-12-	20-10.0-	-	-	6.3-	475-	11-1-7-5-6-3-3-1-	-3-3-3-1-	-1- -	-	-	-	-	0.38
56-43.4489-107.0958-2-06-	0-W09145-09/08/77-13-	20-10.0-	-	-	6.3-	480-	11-1-7-5-6-3-2-1-	-4-3-3-1-	-1- -	-	-	-	-	0.22
56-43.6761-106.0894-2-08-	0-W09150-09/11/77-11-	20-13.0-	-	-	6.3-	500-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	4.73
56-43.7097-106.0697-2-08-	0-W09151-09/11/77-11-	20-13.0-	-	-	6.3-	450-	6-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	0.34
56-43.6908-106.0497-2-08-	0-W09153-09/11/77-12-	20-14.0-C-	-	-	6.3-	430-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-9-	-	-	-	0.22
56-43.6744-106.0503-2-08-	0-W09155-09/11/77-12-	20-13.0-	-	-	6.3-	480-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	5.44
56-43.6625-106.0467-2-08-	0-W09156-09/11/77-12-	20-12.0-	-	-	6.5-	500-	13-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	13.90
56-43.6461-106.0053-2-08-	0-W09157-09/11/77-12-	20-13.0-	-	-	6.5-	480-	16-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	8.25
56-43.6419-106.0558-2-08-	0-W09158-09/11/77-12-	20-14.0-	-	-	6.3-	450-	6-1-7- -	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	5.45
56-43.7353-106.1097-2-08-	0-W09164-09/11/77-14-	20-12.0-	-	-	6.5-	490-	18-1-7- -	-3-3-1-	- - - - -	-1-8-	-	-	-	0.06
56-43.7489-106.1422-2-08-	0-W09169-09/11/77- -	-	-C-	-	6.3-	500-	11-1-7- -	-3-3-1-	-3-3-3-1-	-1-9-	-	-	-	3.57*

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.3508-106.8458-2-06-						0-W08948	542000	460	150	39	237	27526	30	-25	89	-200	86	411
56-43.3442-106.8531-2-08-						0-W08949	662000	682	79	36	280	34227	30	-25	-25	-200	67	672
56-43.3483-106.9403-2-06-						0-W08952	53978	131	-25	9	150	8410	98	-25	-25	-200	10	215
56-43.3469-106.9531-2-06-						0-W08953	32274	119	-25	14	230	5139	67	-25	-25	-200	-4	182
56-43.3328-106.9133-2-06-						0-W08954	35377	129	-25	-4	84	5493	66	38	-25	-200	-4	171
56-43.2828-106.8264-2-06-						0-W08962	4932	-55	-25	-4	50	981	-3	-25	-25	-200	-4	118
56-43.3217-106.7272-2-08-						0-W08967	13779	77	-25	-4	175	5199	20	-25	-25	-200	-4	116
56-43.1381-106.7117-2-08-						0-W08982	32544	137	-25	14	235	21899	91	36	-25	594	-4	2839
56-43.1367-106.6408-2-08-						0-W08987	3604	75	-25	-4	315	1088	-3	-25	-25	-200	-4	231
56-43.8339-106.2206-2-08-						0-W09009	4706	59	-25	-4	114	950	10	-25	-25	-200	-4	98
56-43.8408-106.2047-2-08-						0-W09011	9628	89	54	12	321	1937	64	79	-25	495	19	182
56-43.8739-106.1828-2-08-						0-W09013	6158	-55	-25	-4	298	1473	24	-25	-25	-200	-4	71
56-43.3144-107.0961-2-06-						0-W09037	57134	145	-25	5	34	5643	6	55	-25	575	-4	262
56-43.3119-107.0903-2-08-						0-W09038	124003	290	30	97	119	52790	28	81	-25	1434	11	607
56-43.1986-107.3844-2-08-						0-W09072	3195	65	-25	-4	376	844	8	-25	-25	-200	-4	188
56-43.2131-107.3678-2-08-						0-W09074	2947	79	-25	-4	368	775	5	-25	-25	-200	-4	107
56-43.2242-107.3014-2-08-						0-W09080	55971	103	-25	-4	141	12567	19	66	-25	308	-4	643
56-43.2011-107.2819-2-08-						0-W09082	61254	220	34	-4	54	13378	17	110	-25	728	14	582
56-43.0075-107.0767-2-06-						0-W09084	77166	224	123	14	373	43061	422	239	111	2295	58	403
56-43.0253-107.0694-2-06-						0-W09088	84563	247	-25	17	605	47032	492	87	-25	1593	22	320
56-43.0325-106.9872-2-08-						0-W09091	308425	440	-25	4	149	142687	25	-25	-25	-200	-4	380
56-43.0372-106.9083-2-08-						0-W09093	54965	166	36	18	152	15385	52	107	83	1021	21	248
56-43.0422-106.9069-2-08-						0-W09094	5117	-55	-25	30	75	1236	8	68	-25	158	-4	490
56-43.0289-106.8094-2-08-						0-W09099	158000	331	-25	17	221	40633	303	51	-25	1023	16	967
56-43.2119-106.8322-2-08-						0-W09107	2220	103	-25	-4	27	544	7	-25	-25	-200	-4	-50
56-43.1692-106.7911-2-08-						0-W09113	2013	71	-25	-4	78	452	7	27	-25	-200	-4	-50
56-43.0358-106.7236-2-08-						0-W09124	63463	190	-25	120	311	22639	60	54	-25	428	10	942
56-43.0283-106.7322-2-08-						0-W09126	65605	115	-25	118	51	23731	30	-25	-25	-200	-4	989
56-43.4250-107.1908-2-07-						0-W09130	12416	81	-25	-4	-25	3310	-3	-25	-25	-200	-4	-50
56-43.4578-107.2269-2-08-						0-W09131	6913	-55	-25	-4	96	1517	12	-25	-25	-200	-4	-50
56-43.4631-107.2222-2-07-						0-W09132	6906	-55	-25	-4	52	1544	25	-25	-25	-200	-4	71
56-43.4700-107.2256-2-06-						0-W09133	5711	-55	-25	-4	53	1300	16	-25	-25	-200	-4	72
56-43.4661-107.1794-2-08-						0-W09134	75916	125	-25	33	329	24581	34	50	-25	360	9	261
56-43.4894-107.2300-2-08-						0-W09135	9218	-55	-25	31	52	2019	-3	34	-25	-200	-4	74
56-43.4814-107.1108-2-06-						0-W09137	44985	121	-25	21	231	39619	39	44	-25	560	8	280
56-43.4844-107.0672-2-06-						0-W09138	44503	95	-25	18	141	37559	41	30	-25	468	-4	214
56-43.4481-107.1417-2-06-						0-W09139	93580	127	-25	31	296	29852	45	30	-25	500	13	373
56-43.4342-107.1461-2-07-						0-W09141	59936	131	-25	10	206	24682	38	-25	-25	-200	-4	302
56-43.4467-107.1167-2-06-						0-W09142	26459	65	-25	50	280	30377	51	-25	-25	-200	-4	175
56-43.4586-107.0994-2-07-						0-W09144	40355	201	-25	33	208	17990	23	69	-25	772	22	167
56-43.4489-107.0958-2-06-						0-W09145	46833	245	-25	15	188	20916	16	-25	-25	-200	-4	154
56-43.6761-106.0894-2-08-						0-W09150	5454	115	-25	-4	142	978	8	-25	-25	-200	-4	108
56-43.7097-106.0697-2-08-						0-W09151	4841	-55	-25	-4	42	656	14	-25	-25	-200	-4	-50
56-43.6908-106.0497-2-08-						0-W09153	5039	70	-25	-4	93	663	17	-25	-25	-200	-4	79
56-43.6744-106.0503-2-08-						0-W09155	5099	-55	-25	11	98	840	19	55	32	259	9	-50
56-43.6625-106.0467-2-08-						0-W09156	10626	90	-25	16	235	1365	49	44	-25	-200	7	-50
56-43.6461-106.0053-2-08-						0-W09157	6681	70	-25	5	104	864	30	-25	-25	-200	-4	-50
56-43.6419-106.0558-2-08-						0-W09158	5363	129	-25	9	67	870	21	47	-25	-200	-4	-50
56-43.7353-106.1097-2-08-						0-W09166	6083	-55	-25	-4	84	1261	29	-25	-25	-200	-4	97
56-43.7489-106.1422-2-08-						0-W09168	5400	78	77	19	125	1088	31	111	150	1058	27	-50
56-43.7969-106.0211-2-08-						0-W09172	79253	137	70	26	177	12650	212	159	110	1548	38	222

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
56-43.7969-	106.0211-	2-08-	0-	W09172-	09/12/77-	8-	17-	11.0-	-	-	6.3-	1300-	11-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	1-	-1-	3-	-	-	-	4.67		
56-43.8197-	106.0511-	2-08-	0-	W09173-	09/12/77-	9-	17-	12.0-	-	-	6.4-	1400-	13-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	2.64		
56-43.8478-	106.0697-	2-08-	0-	W09179-	09/12/77-	10-	18-	11.0-	-	-	6.4-	1200-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	8-	-	-	-	0.46		
56-43.8400-	106.0994-	2-08-	0-	W09180-	09/12/77-	10-	18-	12.0-	-	-	6.3-	1100-	16-	1-	7-	-	-	-	-	-	-	-	-	-	-1-	1-	-	-	-	0.43		
56-43.7936-	106.2139-	2-08-	0-	W09181-	09/12/77-	11-	19-	11.0-	-	-	6.5-	580-	9-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	3-	-	-	-	0.35		
56-43.7717-	106.1731-	2-08-	0-	W09183-	09/12/77-	12-	19-	12.0-	C-	-	6.5-	550-	18-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	9-	-	-	-	0.44		
56-43.7803-	106.1958-	2-08-	0-	W09194-	09/12/77-	12-	20-	10.0-	C-	-	6.5-	600-	13-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	9-	-	-	-	0.05		
56-43.3281-	106.3786-	2-08-	0-	W09197-	09/13/77-	9-	18-	10.0-	-	-	7.5-	6000-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	8-	-	-	-	1.61		
56-43.3258-	106.4194-	2-08-	0-	W09198-	09/13/77-	9-	18-	11.0-	C-	-	6.5-	2600-	13-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	9-	-	-	-	0.52		
56-43.4133-	106.2472-	2-08-	0-	W09218-	09/13/77-	15-	20-	10.0-	-	-	6.8-	1500-	11-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	1-	-1-	8-	-	-	-	0.28		
56-43.0956-	106.3392-	2-08-	0-	W09219-	09/13/77-	15-	20-	10.0-	-	-	6.9-	1600-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	3-	-	-	-	5.29		
56-43.0714-	106.3592-	2-08-	0-	W09221-	09/13/77-	16-	19-	10.0-	-	-	6.3-	3500-	16-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	1-	-1-	1-	-	-	-	3.54		
56-43.0586-	106.3564-	2-08-	0-	W09223-	09/13/77-	16-	19-	9.0-	-	-	6.9-	3500-	6-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	1-	-1-	1-	-	-	-	7.61		
56-43.0358-	106.3533-	2-08-	0-	W09233-	09/14/77-	11-	20-	10.0-	-	-	6.9-	2400-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	1-	-	-	-	4.34		
56-43.0244-	106.3469-	2-08-	0-	W09234-	09/14/77-	11-	20-	11.0-	-	-	6.9-	2300-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	2.61		
56-43.0072-	106.3739-	2-08-	0-	W09235-	09/14/77-	11-	20-	9.0-	-	-	6.8-	2500-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	1-	-	-	-	2.29		
56-43.0869-	106.1939-	2-08-	0-	W09240-	09/14/77-	12-	20-	10.0-	-	-	6.9-	2600-	9-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	1-	-	-	-	2.79		
56-43.1278-	106.1781-	2-08-	0-	W09246-	09/14/77-	14-	20-	10.0-	-	-	6.9-	2500-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	1-	-	-	-	1.76		
56-43.1306-	106.1567-	2-08-	0-	W09247-	09/14/77-	14-	20-	9.0-	-	-	6.9-	2000-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	1-	-	-	-	3.30		
56-43.1264-	106.1239-	2-08-	0-	W09248-	09/14/77-	14-	20-	10.0-	-	-	6.6-	1800-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	3-	-	-	-	1.27		
56-43.2003-	106.0908-	2-08-	0-	W09253-	09/14/77-	15-	20-	10.0-	-	-	6.9-	2100-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	3-	-	-	-	1.20		
56-43.2136-	106.1431-	2-08-	0-	W09265-	09/14/77-	18-	17-	-	-	-	6.9-	2200-	13-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	1-	-1-	3-	-	-	-	1.03		
56-43.0317-	106.2975-	2-08-	0-	W09270-	09/15/77-	7-	13-	10.0-	-	-	6.4-	1400-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	8-	-	-	-	0.61		
56-43.0569-	106.2558-	2-08-	0-	W09271-	09/15/77-	7-	13-	9.0-	-	-	6.3-	1300-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	8-	-	-	-	1.74		
56-43.0631-	106.3128-	2-08-	0-	W09273-	09/15/77-	8-	15-	10.0-	-	-	6.9-	2200-	13-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	1-	-	-	-	0.82		
56-43.0853-	106.3061-	2-08-	0-	W09275-	09/15/77-	8-	15-	9.0-	-	-	6.9-	2100-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	1-	-	-	-	0.90		
56-43.1531-	106.2708-	2-08-	0-	W09278-	09/15/77-	9-	16-	10.0-	-	-	6.3-	1100-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	1-	-	-	-	2.69		
56-43.1394-	106.2856-	2-08-	0-	W09280-	09/15/77-	9-	15-	9.0-	-	-	6.3-	1000-	13-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	1-	-	-	-	1.53		
56-43.4286-	106.0414-	2-08-	0-	W09306-	09/16/77-	10-	16-	9.0-	-	-	6.7-	500-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	4-	-	-	-	0.51		
56-43.5206-	106.0189-	2-08-	0-	W09311-	09/16/77-	12-	17-	10.0-	-	-	6.8-	600-	11-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	1-	-1-	3-	-	-	-	0.53		
56-43.5311-	106.0250-	2-08-	0-	W09314-	09/16/77-	12-	18-	10.0-	-	-	6.3-	550-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	8-	-	-	-	9.59		
56-43.5592-	106.0142-	2-08-	0-	W09315-	09/16/77-	13-	18-	10.0-	-	-	6.8-	400-	16-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	1-	-1-	3-	-	-	-	0.47		
56-43.5906-	106.0489-	2-08-	0-	W09317-	09/16/77-	14-	13-	9.0-	-	-	6.8-	500-	16-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	1-	-1-	8-	-	-	-	0.51		
56-43.5967-	106.0608-	2-08-	0-	W09319-	09/16/77-	14-	18-	9.0-	C-	-	6.7-	700-	9-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	1-	-1-	9-	-	-	-	31.88		
56-43.6167-	106.0683-	2-08-	0-	W09320-	09/16/77-	14-	18-	9.0-	C-	-	6.8-	650-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	9-	-	-	-	14.58		
56-43.5825-	106.0764-	2-08-	0-	W09322-	09/16/77-	15-	18-	10.0-	C-	-	6.8-	550-	13-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	1-	-1-	9-	-	-	-	24.62		
56-43.4225-	106.1061-	2-06-	0-	W09325-	09/17/77-	8-	15-	10.0-	-	-	6.8-	3500-	9-	1-	7-	4-	6-	3-	3-	1-	-3-	3-	3-	3-	-1-	-	-	-	13.07		
56-43.4292-	106.1167-	2-06-	0-	W09326-	09/17/77-	8-	15-	9.0-	-	-	6.8-	3400-	9-	1-	7-	4-	6-	3-	3-	1-	-3-	3-	3-	3-	-1-	-	-	-	20.23		
56-43.4056-	106.1903-	2-08-	0-	W09328-	09/17/77-	9-	15-	10.0-	-	-	6.9-	4000-	6-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	3-	-1-	3-	-	-	-	6.87		
56-43.4500-	106.2106-	2-08-	0-	W09340-	09/17/77-	14-	15-	9.0-	-	-	6.8-	1800-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	3-	-1-	7-	-	-	-	1.34		
56-43.4792-	106.1158-	2-07-	0-	W09341-	09/17/77-	15-	15-	10.0-	-	-	6.8-	1500-	11-	1-	7-	4-	6-	3-	3-	1-	-4-	3-	3-	3-	-1-	-	-	-	7.29		
56-43.4783-	106.2050-	2-08-	0-	W09343-	09/17/77-	15-	15-	10.0-	-	-	6.8-	2000-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	3-	-1-	8-	-	-	-	2.50		
56-43.1583-	107.5378-	2-08-	0-	W09344-	09/23/77-	9-	10-	9.0-	-	-	6.2-	1400-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	4-	-1-	1-	-	-	-	2.07		
56-43.1656-	107.5067-	2-08-	0-	W09345-	09/23/77-	9-	10-	10.0-	-	-	6.1-	1500-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	4-	-1-	1-	-	-	-	7.36		
56-43.1483-	107.7139-	2-08-	0-	W09350-	09/23/77-	10-	11-	10.0-	-	-	5.9-	2000-	13-	1-	7-	-	-3-	3-	1-	-4-	3-	3-	4-	-1-	3-	-	-	-	1.39		
56-43.1611-	107.7239-	2-08-	0-	W09351-	09/23/77-	10-	11-	10.0-	-	-	6.0-	2000-	9-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	4-	-1-	3-	-	-	-	0.54		
56-43.2122-	107.7109-	2-08-	0-	W09353-	09/23/77-	11-	12-	10.0-	-	-	6.5-	500-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	3-	-1-	3-	-	-	-	13.59		
56-43.2683-	107.6894-	2-08-	0-	W09355-	09/23/77-	11-	12-	10.0-	-	-	6.9-	1300-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	3-	-1-	3-	-	-	-	0.56		
56-43.3350-	107.6911-	2-08-	0-	W09357-	09/23/77-	13-	14-	10.0-	-	-	6.9-	1600-	11-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	3-	-1-	3-	-	-	-	0.33		
56-43.3472-	107.7079-	2-08-	0-	W09358-	09/23/77-	13-	14-	9.0-	-	-	6.9-	1400-	13-	1-	7-	-	-3-	3-	1-	-3-	3-	3-	3-	-1-	3-	-	-	-	0.52		
56-43.2872-	107.6322-	2-08-	0-	W09379-	09/24/77-	12-	14-	-	-	-	6.9-	2000-	13-	1-	7-	-	-	-	-	-	-	-	-	-	-	-1-	8-	-	-	-	0.11		

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion. (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.8197-106.0511-2-08-						0-W09173	95043	197	-25	-4	114	13907	215	51	-25	733	14	227
56-43.8478-106.0697-2-08-						0-W09179	16685	70	89	17	206	3194	45	162	128	1313	39	-50
56-43.8400-106.0994-2-08-						0-W09180	20413	84	-25	14	136	3924	51	100	51	650	12	87
56-43.7936-106.2139-2-08-						0-W09181	4645	-55	-25	5	145	1088	14	-25	-25	-200	-4	87
56-43.7717-106.1731-2-08-						0-W09183	3756	-55	71	16	148	869	21	136	138	1091	30	53
56-43.7803-106.1958-2-08-						0-W09184	3740	-55	-25	-4	96	868	16	-25	-25	-200	-4	-50
56-43.3281-106.3786-2-08-						0-W09197	6706	-55	47	14	324	2914	19	90	84	840	23	-50
56-43.3258-106.4194-2-08-						0-W09198	55009	239	61	15	208	50395	112	141	98	1983	29	1055
56-43.4133-106.2472-2-08-						0-W09218	14325	135	-25	126	177	3456	8	-25	-25	-200	-4	127
56-43.0956-106.3392-2-08-						0-W09219	96473	310	57	102	477	31980	55	168	69	1879	40	1239
56-43.0714-106.3592-2-08-						0-W09221	346000	682	88	51	512	89482	515	-25	126	2695	63	801
56-43.0586-106.3564-2-08-						0-W09223	89964	241	-25	7	171	13235	30	65	-25	841	7	495
56-43.0358-106.3533-2-08-						0-W09233	48854	172	-25	25	142	19924	61	99	61	1042	10	175
56-43.0244-106.3469-2-08-						0-W09234	45569	201	72	22	75	19006	51	155	86	1617	26	142
56-43.0072-106.3739-2-08-						0-W09235	46206	134	112	24	147	19181	59	201	123	2032	41	94
56-43.0869-106.1939-2-08-						0-W09240	11564	124	26	15	158	2904	36	48	-25	223	19	251
56-43.1278-106.1781-2-08-						0-W09246	8746	-55	-25	-4	-25	2238	10	200	-25	-200	-4	-50
56-43.1306-106.1567-2-08-						0-W09247	104000	189	40	8	660	38035	248	123	-25	901	22	210
56-43.1264-106.1239-2-08-						0-W09248	78810	151	-25	-4	462	28534	187	64	-25	517	7	162
56-43.2003-106.0908-2-08-						0-W09253	12269	4	46	10	96	3549	14	12	-25	573	19	119
56-43.2136-106.1431-2-08-						0-W09265	12484	-55	-25	5	169	3525	11	-25	-25	330	5	97
56-43.0317-106.2975-2-08-						0-W09270	55357	155	50	5	1683	22779	46	94	-25	867	23	195
56-43.0569-106.2558-2-08-						0-W09271	45974	133	-25	-4	1384	18490	48	-25	-25	-200	-4	171
56-43.0631-106.3128-2-08-						0-W09273	32703	-55	110	15	370	6730	36	194	124	977	42	108
56-43.0853-106.3061-2-08-						0-W09275	38901	-55	-25	-4	515	7976	37	-25	-25	-200	-4	199
56-43.1531-106.2708-2-08-						0-W09278	18316	-55	-25	-4	192	4095	130	33	-25	243	25	112
56-43.1394-106.2856-2-08-						0-W09280	15435	-55	-25	-4	177	3496	111	-25	-25	-200	-4	200
56-43.4286-106.0414-2-08-						0-W09306	114000	101	-25	5	262	28135	175	52	-25	-200	23	812
56-43.5206-106.0189-2-08-						0-W09311	26147	-55	-25	-4	111	3386	-3	-25	-25	-200	-4	-50
56-43.5311-106.0250-2-08-						0-W09314	53423	-55	-25	-4	1343	4490	27	-25	-25	-200	12	128
56-43.5592-106.0142-2-08-						0-W09315	8295	-55	-25	-4	97	963	6	-25	-25	-200	-4	110
56-43.5806-106.0489-2-08-						0-W09317	8424	-55	-25	-4	-25	962	6	-25	-25	-200	8	-50
56-43.5967-106.0608-2-08-						0-W09319	23347	-55	-25	-4	117	4234	-3	-25	-25	-200	-4	-50
56-43.6167-106.0683-2-08-						0-W09320	15256	-55	-25	-4	111	2554	-3	-25	-25	-200	-4	-50
56-43.5825-106.0764-2-08-						0-W09322	16362	-55	-25	-4	125	2937	-3	-25	-25	-200	-4	-50
56-43.4225-106.1061-2-06-						0-W09325	169000	250	-25	7	131	94319	20	-25	-25	432	9	276
56-43.4292-106.1167-2-06-						0-W09326	275000	444	-25	17	206	149000	29	-25	-25	406	27	352
56-43.4056-106.1903-2-08-						0-W09328	55554	69	-25	132	129	11653	39	-25	-25	-200	5	399
56-43.4500-106.2106-2-08-						0-W09340	112000	223	-25	9	95	46662	28	-25	-25	-200	-4	188
56-43.4792-106.1158-2-07-						0-W09341	84544	180	-25	-4	200	77504	25	-25	-25	332	-4	240
56-43.4783-106.2050-2-08-						0-W09343	119000	184	-25	9	200	50322	37	-25	-25	-200	-4	200
56-43.1583-107.5378-2-08-						0-W09344	13074	-55	-25	5	304	2123	52	-25	-25	-200	11	112
56-43.1656-107.5067-2-08-						0-W09345												
56-43.1483-107.7139-2-08-						0-W09350	56831	60	-25	-4	169	2678	21	-25	-25	-200	-4	342
56-43.1611-107.7239-2-08-						0-W09351	51979	-55	-25	-4	84	2374	18	-25	-25	-200	-4	415
56-43.2122-107.7100-2-08-						0-W09353	46947	-55	-25	17	3036	14070	133	62	-25	-200	114	610
56-43.2683-107.6894-2-08-						0-W09355	6719	-55	-25	50	141	798	6	-25	-25	-200	-4	111
56-43.3350-107.6911-2-08-						0-W09357	8315	-55	-25	-4	118	618	-3	-25	-25	-200	-4	-50
56-43.3472-107.7078-2-08-						0-W09358	4286	-55	-25	38	31	475	-3	-25	-25	-200	-4	-50
56-43.2872-107.6322-2-08-						0-W09379	5932	-55	-25	-4	131	1344	26	-25	-25	-200	-4	73
56-43.2867-107.6311-2-08-						0-W09380	158000	201	-25	-4	111	76637	65	100	-25	-200	-4	978

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																							U CONCENTRATION
							TIME SAMPLED																						
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
56	43.2867	107.6311	2	08	-	0-W09380	09/24/77	12	14	10.0	-	-	6.9	3000	11	1	7	-	-	3	3	3	-	4	3	3	3	-	1	3	-	-	-	0.97
56	43.4392	107.2692	2	06	-	0-W09406	09/26/77	13	13	8.0	-	-	5.5	90	9	1	7	5	8	3	3	1	-	-	-	-	-	-	1	-	-	-	-	0.01
56	43.4306	107.2728	2	06	-	0-W09407	09/26/77	13	13	8.0	-	-	5.5	100	11	1	7	5	8	3	3	1	-	4	3	3	1	-	1	-	-	-	-	0.33
56	43.4361	107.3222	2	06	-	0-W09408	09/26/77	13	14	8.0	-	-	6.0	80	11	1	7	5	8	3	3	1	-	4	3	3	1	-	1	-	-	-	-	0.30
56	43.3406	107.2539	2	06	-	0-W09409	08/29/77	-	-	-	-	-	-	210	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.20
56	43.3656	107.2756	2	06	-	0-W09410	08/29/77	-	-	-	-	-	-	330	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.30
56	43.3828	107.3019	2	06	-	0-W09411	09/26/77	15	14	8.0	-	-	6.0	100	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.04
56	43.3964	107.2850	2	06	-	0-W09412	09/26/77	15	14	7.0	-	-	6.0	110	9	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.01
56	43.3972	107.3078	2	06	-	0-W09413	09/26/77	15	14	8.0	-	-	6.0	90	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.01
56	43.4144	107.3203	2	07	-	0-W09414	09/26/77	15	14	9.0	-	-	6.1	120	13	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.01
56	43.3817	107.3642	2	06	-	0-W09415	09/26/77	16	14	7.0	-	-	6.1	90	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.01
56	43.4475	107.3950	2	06	-	0-W09416	09/26/77	17	13	9.0	C	-	5.5	90	11	1	7	-	-	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.03
56	43.4819	107.4397	2	07	-	0-W09417	09/26/77	17	13	10.0	-	-	5.7	100	9	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.03
56	43.4797	107.4400	2	06	-	0-W09418	09/26/77	17	13	-	-	-	5.9	150	11	1	7	5	8	-	-	-	-	3	3	3	1	-	1	-	-	-	-	0.03
56	43.4681	107.4597	2	06	-	0-W09419	09/26/77	17	13	10.0	-	-	5.8	120	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.03
56	43.4344	107.4656	2	07	-	0-W09420	09/26/77	18	12	10.0	-	-	5.8	150	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.11
56	43.4222	107.4483	2	06	-	0-W09421	09/26/77	18	12	10.0	-	-	5.9	160	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.41
56	43.4286	107.4169	2	06	-	0-W09422	09/26/77	18	12	9.0	-	-	5.9	120	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.01
56	43.4250	107.3769	2	07	-	0-W09423	09/26/77	18	12	10.0	-	-	5.9	180	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.01
56	43.4139	107.4100	2	07	-	0-W09424	09/26/77	18	12	10.0	-	-	-	-	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.06
56	43.4092	107.4117	2	07	-	0-W09425	09/26/77	18	12	10.0	-	-	-	-	9	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	0.27
56	43.4039	107.5300	2	08	-	0-W09430	09/27/77	9	14	10.0	-	-	6.5	460	11	1	7	-	-	3	3	1	-	3	3	3	1	-	1	3	-	-	-	2.43
56	43.4628	107.5314	2	06	-	0-W09433	09/27/77	10	14	9.0	-	-	6.7	300	11	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	3.27
56	43.4606	107.5825	2	06	-	0-W09434	09/27/77	10	14	10.0	-	-	6.8	350	9	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	2.55
56	43.4450	107.5894	2	07	-	0-W09435	09/27/77	11	15	10.0	-	-	6.5	450	11	1	7	5	6	3	3	1	-	1	-	3	1	-	1	-	-	-	-	1.91
56	43.4433	107.5872	2	06	-	0-W09436	09/27/77	11	15	10.0	-	-	6.7	440	11	1	7	5	6	3	3	1	-	3	3	3	1	-	1	-	-	-	-	2.05
56	43.4194	107.5508	2	08	-	0-W09438	09/27/77	12	15	10.0	-	-	6.5	470	11	1	7	-	-	3	3	1	-	3	3	3	1	-	1	8	-	-	-	2.83
56	43.3267	107.6039	2	08	-	0-W09439	09/27/77	13	15	10.0	-	-	-	500	9	1	7	-	-	3	3	1	-	4	3	3	1	-	1	3	-	-	-	25.18*
56	43.3444	107.5789	2	08	-	0-W09441	09/27/77	13	15	11.0	-	-	-	480	9	1	7	-	-	3	3	1	-	4	3	3	1	-	1	4	-	-	-	3.21
56	43.3494	107.4800	2	08	-	0-W09444	09/27/77	14	15	10.0	-	-	6.5	520	11	1	7	-	-	3	3	1	-	4	3	3	1	-	1	3	-	-	-	4.83
56	43.3478	107.4472	2	06	-	0-W09445	09/27/77	15	15	10.0	-	-	6.3	500	11	1	7	-	-	3	3	1	-	4	3	3	1	-	1	-	-	-	-	0.52
56	43.3228	107.4278	2	08	-	0-W09449	09/27/77	16	15	10.0	-	-	6.3	500	9	1	7	-	-	3	3	1	-	4	3	3	1	-	1	3	-	-	-	4.77
56	43.3233	107.4006	2	07	-	0-W09449	09/27/77	16	15	10.0	-	-	5.9	250	11	1	7	5	6	3	3	1	-	3	3	3	1	-	1	-	-	-	-	1.07
56	43.4894	107.9706	2	08	-	0-W09452	09/28/77	7	11	8.0	-	-	6.3	240	18	1	7	-	-	3	3	1	-	4	3	3	1	-	1	7	-	-	-	4.79
56	43.4981	107.9725	2	07	-	0-W09453	09/28/77	7	11	8.0	-	-	6.1	200	18	1	7	5	8	3	3	1	-	4	3	3	1	-	1	-	-	-	-	0.54
56	43.4986	107.9467	2	07	-	0-W09454	09/28/77	7	11	7.0	-	-	6.1	210	18	1	7	5	8	3	3	1	-	4	3	3	1	-	1	-	-	-	-	0.62
56	43.4867	107.9261	2	07	-	0-W09455	09/28/77	7	11	8.0	-	-	6.1	200	16	1	7	5	8	3	3	1	-	4	3	3	1	-	1	-	-	-	-	1.92
56	43.4742	107.8972	2	08	-	0-W09456	09/28/77	9	11	8.0	-	-	6.1	230	16	1	7	-	-	3	3	1	-	4	3	3	1	-	1	7	-	-	-	3.62
56	43.4767	107.8858	2	07	-	0-W09457	09/28/77	8	11	8.0	-	-	6.1	220	16	1	7	5	8	3	3	1	-	4	3	3	1	-	1	-	-	-	-	2.97
56	43.4747	107.8842	2	07	-	0-W09458	09/28/77	8	11	8.0	-	-	6.3	240	15	1	7	5	8	3	3	1	-	4	3	3	1	-	1	-	-	-	-	3.63
56	43.4622	107.8461	2	07	-	0-W09460	09/28/77	8	12	11.0	-	-	6.5	350	13	1	7	5	8	3	2	1	-	3	3	3	1	-	1	-	-	-	-	2.02
56	43.4839	107.7989	2	06	-	0-W09461	09/28/77	9	12	9.0	-	-	6.3	330	15	1	7	5	8	3	3	1	-	3	3	3	1	-	1	-	-	-	-	2.15
56	43.4483	107.7806	2	08	-	0-W09465	09/28/77	9	12	10.0	-	-	6.3	500	8	1	4	-	-	3	3	1	-	3	3	3	1	-	1	8	-	-	-	2.85
56	43.4864	107.7644	2	08	-	0-W09466	09/28/77	10	13	10.0	-	-	6.3	650	18	1	4	-	-	3	3	1	-	4	3	3	1	-	1	3	-	-	-	1.22
56	43.4631	107.7514	2	08	-	0-W09468	09/28/77	10	14	10.0	-	-	6.5	700	15	1	4	-	-	3	3	1	-	4	3	3	1	-	1	3	-	-	-	1.21
56	43.4142	107.7831	2	07	-	0-W09471	09/28/77	11	15	12.0	-	-	6.1	360	10	1	7	5	6	3	3	1	-	3	3	3	1	-	1	-	-	-	-	2.49
56	43.4150	107.7814	2	08	-	0-W09472	09/28/77	11	15	10.0	-	-	6.1	350	8	1	7	-	-	3	3	1	-	4	3	3	1	-	1	3	-	-	-	1.66
56	43.3947	107.8586	2	08	-	0-W09477	09/28/77	12	15	10.0	-	-	6.1	360	16	1	7	-	-	3	3	1	-	3	3	3	1	-	1	8	-	-	-	9.69
56	43.3897	107.8989	2	08	-	0-W09482	09/28/77	13	15	10.0	-	-	6.1	370	16	1	7	-	-	3	3	1	-	3	3	3	1	-	1	7	-	-	-	7.78
56	43.4064	107.9550	2	08	-	0-W09487	09/28/77	15	15	10.0	-	-	6.1	250	33	1	7	-	-	3	3	1	-	3	3	3	1	-	1	7	-	-	-	1.04
56	43.4156	107.9542	2	07	-	0-W09489	09/28/77	16	15	9.0	-	-	6.1	200	16	1	7	4	6	3	3	1	-	3	3	3	1	-	1	-	-	-	-	1.13

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.4392-107.2692-2-06-						0-W09405	7899	-55	-25	-4	336	2214	13	-25	-25	-200	6	-50
56-43.4306-107.2728-2-06-						0-W09407	7072	-55	-25	-4	130	1922	6	-25	-25	-200	-4	-50
56-43.4361-107.3222-2-06-						0-W09408	10973	-55	-25	-4	262	2470	7	-25	-25	-200	-4	-50
56-43.3406-107.2539-2-06-						0-W09409	37015	48	-25	-4	-25	4002	3	-25	-25	-200	-4	188
56-43.3656-107.2756-2-06-						0-W09410	58304	77	-25	-4	448	7045	1091	-25	-25	427	-4	228
56-43.3828-107.3019-2-06-						0-W09411	8957	-55	-25	-4	164	1983	-3	-25	-25	-200	-4	107
56-43.3964-107.2850-2-06-						0-W09412	13472	-55	-25	-4	112	3356	-3	35	-25	-200	-4	58
56-43.3972-107.3078-2-06-						0-W09413	9484	68	-25	-4	90	2085	5	-25	-25	-200	-4	111
56-43.4144-107.3203-2-07-						0-W09414	13195	-55	-25	-4	104	3320	8	49	-25	-200	-4	-50
56-43.3817-107.3642-2-06-						0-W09415	20442	86	53	9	96	4809	16	151	35	483	16	-50
56-43.4475-107.3950-2-06-						0-W09416	11287	-55	28	13	187	3353	14	-25	-25	-200	15	79
56-43.4819-107.4397-2-07-						0-W09417	21372	-55	-25	-4	170	6610	12	120	-25	-200	-4	95
56-43.4797-107.4400-2-06-						0-W09418	27267	-55	-25	-4	152	7814	13	-25	-25	-200	-4	141
56-43.4681-107.4597-2-06-						0-W09419	19979	-55	54	-4	-25	5810	-3	163	33	393	24	-50
56-43.4344-107.4656-2-07-						0-W09420	32562	-55	-25	-4	99	8618	5	-25	-25	-200	-4	122
56-43.4222-107.4483-2-06-						0-W09421	52051	119	32	17	4487	14944	119	32	-25	284	161	210
56-43.4286-107.4169-2-06-						0-W09422	29928	-55	-25	-4	125	8711	25	-25	-25	-200	-4	84
56-43.4250-107.3769-2-07-						0-W09423	37154	-55	-25	-4	128	9569	15	-25	-25	-200	-4	102
56-43.4139-107.4100-2-07-						0-W09424	60472	60	-25	-4	134	13652	19	-25	-25	-200	-4	220
56-43.4092-107.4117-2-07-						0-W09425	81349	76	-25	-4	671	18198	29	-25	-25	-200	127	218
56-43.4039-107.5300-2-08-						0-W09430	73056	-55	-25	-4	111	42300	6	-25	-25	-200	-4	234
56-43.4628-107.5314-2-06-						0-W09433	57647	-55	-25	-4	68	29168	15	-25	-25	-200	-4	151
56-43.4606-107.5825-2-06-						0-W09434	64054	178	-25	-4	219	32184	27	-25	-25	-200	-4	233
56-43.4450-107.5894-2-07-						0-W09435	62367	-55	-25	-4	270	39976	18	-25	-25	-200	-4	223
56-43.4433-107.5872-2-06-						0-W09436	68163	113	-25	-4	96	44798	4	-25	-25	408	18	252
56-43.4194-107.5508-2-08-						0-W09438	106000	162	-25	-4	212	60111	21	28	-25	226	12	257
56-43.3267-107.6039-2-08-						0-W09439	285000	316	-25	20	241	111000	96	-25	-25	-200	22	5883
56-43.3444-107.5789-2-08-						0-W09441	91645	153	-25	-4	-25	94766	19	48	-25	-200	-4	254
56-43.3494-107.4800-2-08-						0-W09444	139000	196	-25	206	37	24451	-3	53	-25	-200	11	841
56-43.3478-107.4472-2-06-						0-W09445	125000	212	-25	-4	39	49580	15	-25	-25	-200	-4	371
56-43.3228-107.4278-2-08-						0-W09448	118000	214	-25	173	92	20584	7	-25	-25	-200	-4	802
56-43.3233-107.4006-2-07-						0-W09449	71167	178	-25	-4	175	16055	11	-25	-25	-200	-4	264
56-43.4894-107.9706-2-08-						0-W09452	41261	82	-25	-4	187	11262	-3	-25	-25	-200	-4	298
56-43.4981-107.9725-2-07-						0-W09453	45435	125	-25	-4	212	10836	22	30	-25	-200	9	236
56-43.4986-107.9467-2-07-						0-W09454	30764	76	-25	-4	59	7365	-3	-25	-25	-200	-4	252
56-43.4867-107.9261-2-07-						0-W09455	37746	101	-25	5	248	10199	8	-25	-25	-200	-4	342
56-43.4742-107.8972-2-08-						0-W09456	49936	103	-25	-4	317	12624	21	-25	-25	-200	-4	321
56-43.4767-107.8858-2-07-						0-W09457	43053	118	-25	-4	305	11094	31	-25	-25	-200	-4	208
56-43.4747-107.8842-2-07-						0-W09458	43496	63	-25	-4	212	11788	15	-25	-25	-200	-4	211
56-43.4622-107.8461-2-07-						0-W09460	55335	134	-25	-4	133	13729	10	-25	-25	-200	8	165
56-43.4839-107.7989-2-06-						0-W09461	61409	185	-25	6	903	22119	35	-25	-25	-200	7	273
56-43.4483-107.7806-2-08-						0-W09465	102000	158	-25	21	267	35414	23	-25	-25	-200	-4	550
56-43.4864-107.7644-2-08-						0-W09466	78252	209	-25	20	186	32763	10	-25	-25	-200	14	1016
56-43.4631-107.7514-2-08-						0-W09468	88671	140	-25	18	89	37066	8	-25	-25	-200	5	1124
56-43.4142-107.7831-2-07-						0-W09471	52178	79	-25	5	213	32237	11	-25	-25	-200	12	198
56-43.4150-107.7814-2-08-						0-W09472	46580	105	-25	-4	171	28665	7	-25	-25	-200	-4	173
56-43.3947-107.8586-2-08-						0-W09477	52368	114	-25	6	651	13119	94	27	-25	-200	9	226
56-43.3897-107.8989-2-08-						0-W09482	57907	138	-25	-4	733	12435	73	-25	-25	-200	9	265
56-43.4064-107.9550-2-08-						0-W09487	34353	93	-25	-4	111	9461	12	-25	26	-200	-4	142
56-43.4156-107.9542-2-07-						0-W09489	49929	170	27	13	397	13303	37	-25	85	-200	21	318
56-43.4239-107.9758-2-07-						0-W09490	37136	110	-25	13	184	10068	30	-25	-25	-200	8	170

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (nU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
56-43.4239-107.9758-2-07-						0-W09490-09/28/77-15-	15-	10.0-	-	-	-	6.1-	210-	33-1-7-4-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	-	0.67										
56-43.3950-107.9922-2-08-						0-W09491-09/28/77-15-	15-	9.0-	-	-	-	6.1-	240-	25-1-7-	-	-3-3-1-	-3-3-3-1-	-1-7-	-	-	-	0.70										
56-43.3631-107.9367-2-08-						0-W09492-09/28/77-16-	15-	10.0-	-	-	-	6.1-	800-	16-1-7-	-	-1-2-1-	-4-3-3-1-	-1-4-	-	-	-	0.03										
56-43.3531-107.9244-2-08-						0-W09493-09/28/77-16-	15-	9.0-	-	-	-	6.1-	900-	16-1-7-	-	-3-3-1-	-4-3-3-1-	-1-3-	-	-	-	0.03										
56-43.2692-107.9256-2-08-						0-W09499-09/28/77-18-	15-	10.0-	-	-	-	6.3-	1000-	16-1-7-	-	-3-3-1-	-3-3-3-1-	-1-8-	-	-	-	5.64										
56-43.2861-107.7394-2-08-						0-W09510-09/29/77- 8-	12-	10.0-	-	-	-	6.5-	300-	16-1-7-	-	-3-3-1-	-4-3-1-3-	-8-	-	-	-	11.40										
56-43.4475-107.6278-2-06-						0-W09512-09/29/77- 9-	14-	9.0-	-	-	-	6.1-	370-	8-1-7-5-8-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	-	2.00										
56-43.4250-107.6275-2-08-						0-W09513-09/29/77- 9-	13-	10.0-	-	-	-	6.1-	470-	8-1-7-	-	-3-3-1-	-3-3-3-1-	-1-3-	-	-	-	0.90										
56-43.3925-107.6569-2-07-						0-W09516-09/29/77-10-	14-	9.0-	-	-	-	6.5-	480-	8-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	-	0.88										
56-43.4089-107.6531-2-06-						0-W09517-09/29/77-10-	14-	8.0-	-	-	-	6.3-	350-	10-1-7-5-6-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	-	1.70										

APPENDIX I-A. (continued). Elemental Concentrations for Water Samples

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY Concentrations reported in weight parts per billion (ppb)											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Pb	Ti	Zn
56-43.3950-107.9922-2-08-						0-W09491	37300	164	32	7	193	10070	7	-25	76	204	20	191
56-43.3631-107.9367-2-08-						0-W09492	90100	134	-25	8	293	27379	851	72	84	235	26	395
56-43.3531-107.9244-2-08-						0-W09493	102000	217	50	17	553	31534	945	92	129	615	41	512
56-43.2692-107.9256-2-08-						0-W09499	152000	256	48	19	991	76196	62	131	58	883	61	395
56-43.2861-107.7394-2-08-						0-W09510	156000	241	-25	19	180	87519	144	43	-25	684	28	1438
56-43.4475-107.6278-2-06-						0-W09512	98674	215	-25	9	284	43293	29	52	73	293	21	226
56-43.4250-107.6275-2-08-						0-W09513	129000	296	76	16	2511	50026	83	99	122	709	47	1152
56-43.3925-107.6569-2-07-						0-W09514	105000	345	-25	10	232	46075	31	46	91	-200	22	247
56-43.4089-107.6531-2-06-						0-W09517	96704	298	-25	5	390	42232	27	-25	67	-200	17	325

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APPENDIX I-B

Listing of Field Data and Elemental Concentrations
for Sediment Samples from the Arminto Quadrangle, Wyoming
(Pages 50 through 149)

Note that four pages, numbered (1) through (4) in the upper right hand corner, are necessary to provide the complete data listing for each numerically ordered sequence of samples.

(1)- Lists field data and uranium concentrations determined by delayed-neutron counting.
(2)- Lists concentrations of 11 elements determined by x-ray fluorescence and arc-source emission spectrography.
(3) and (4)- List concentrations of 31 elements determined by neutron activation analysis and computed U/Th ratios.

(See Appendix IV for Code to Listings)

APPENDIX I-B. Elemental Concentrations for Sediment Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.6005-106.5238-2-14-						0-W08001-05/16/76-11-			13-13.0-		-	-	7.2-	1300-		12-1-7-4-6-1-3-1-		-4-3-2-2-		-1-	-	-	-	-	3.70
56-43.5997-106.5216-2-97-						0-W08002-05/16/76-11-			13-		-	-	-	-		9-1-7-4-6-		- - -	-4-3-2-2-		-1-	-	-	-	-	3.90
56-43.6172-106.4994-2-97-						0-W08003-05/16/76-11-			13-		-	-	-	-		6-1-7-4-6-		- - -	-4-3-2-2-		-1-	-	-	-	-	4.00
56-43.6447-106.4672-2-14-						0-W08004-05/16/76-12-			16-16.0-		C	-	7.8-	11500-		6-1-7-5-6-1-3-1-		-4-3-3-2-		-9-	-	-	-	-	3.90
56-43.6197-106.3988-2-15-						0-W08005-05/16/76-12-			18-		-	-	-	-		12-1-7-4-6-		- - -	-4-3-3-2-		-1-	-	-	-	-	3.10
56-43.6288-106.4266-2-97-						0-W08006-05/16/76-13-			16-		C	-	-	-		9-1-7-4-6-		- - -	-4-3-4-2-		-9-	-	-	-	-	3.30
56-43.6283-106.4227-2-15-						0-W08007-05/16/76-13-			16-		C	-	-	-		9-1-7-4-6-		- - -	-4-3-4-2-		-9-	-	-	-	-	3.70
56-43.6361-106.3927-2-15-						0-W08008-05/16/76-13-			18-		C	-	-	-		12-1-7-4-6-		- - -	-4-3-4-2-		-9-	-	-	-	-	3.50
56-43.6188-106.3594-2-15-						0-W08009-05/16/76-14-			18-		C	-	-	-		6-1-7-4-6-		- - -	-4-3-2-2-		-9-	-	-	-	-	5.20
56-43.6189-106.3561-2-15-						0-W08010-05/16/76-13-			18-		C	-	-	-		9-1-7-4-6-		- - -	-4-3-2-2-		-9-	-	-	-	-	3.70
56-43.7005-106.6400-2-14-						0-W08011-05/07/76-13-			25-19.0-		-	-	6.6-	8300-		11-1-7-5-8-1-2-1-3-		-4-3-2-1-		-1-	-	-	-	-	3.60
56-43.6058-106.5688-2-15-						0-W08013-05/14/76-10-			27-		-	-	-	-		9-1-7-4-7-		- - -	-4-2-4-1-		-1-	-	-	-	-	3.50
56-43.6055-106.5850-2-15-						0-W08014-05/14/76-10-			27-		-	-	-	-		12-1-7-5-7-		- - -	-4-1-4-1-		-1-	-	-	-	-	3.50
56-43.5822-106.5694-2-15-						0-W08015-05/14/76-10-			27-		-	-	-	-		12-1-7-5-7-		- - -	-4-2-3-1-		-1-	-	-	-	-	5.60
56-43.5627-106.5663-2-15-						0-W08016-05/14/76-10-			30-		C	-	-	-		15-1-7-4-7-		- - -	-4-2-3-1-		-1-	-	-	-	-	5.60
56-43.5947-106.1466-2-14-						0-W08018-05/17/76-16-			28-19.0-		C	-	7.6-	4200-		9-1-7-5-7-2-3-1-		-4-2-2-1-		-1-	-	-	-	-	5.50
56-43.5966-106.1788-2-15-						0-W08019-05/17/76-16-			25-		-	-	-	-		15-1-7-5-7-		- - -	-4-2-2-1-		-1-	-	-	-	-	4.20
56-43.6222-106.1611-2-15-						0-W08020-05/17/76-16-			27-		-	-	-	-		6-1-7-4-7-		- - -	-4-2-3-1-		-1-	-	-	-	-	3.60
56-43.6394-106.5455-2-15-						0-W08021-05/17/76-17-			27-		-	-	-	-		9-1-7-4-7-		- - -	-4-2-2-1-		-1-	-	-	-	-	3.40
56-43.6580-106.5255-2-15-						0-W08022-05/17/76-17-			29-		-	-	-	-		9-1-7-4-7-		- - -	-4-2-1-3-		-1-	-	-	-	-	3.50
56-43.5366-106.3227-2-15-						0-W08023-05/14/76-16-			30-		-	-	-	-		9-1-7-5-7-2-2-1-		-4-2-3-1-		-1-	-	-	-	-	3.00
56-43.5155-106.3044-2-15-						0-W08024-05/14/76-16-			31-		-	-	-	-		6-1-7-4-7-		- - -	-4-2-2-1-		-1-	-	-	-	-	3.20
56-43.5083-106.2833-2-15-						0-W08025-05/14/76-16-			30-		-	-	-	-		9-1-7-4-7-		- - -	-4-2-3-1-		-1-	-	-	-	-	3.CC
56-43.5177-106.5177-2-14-						0-W08026-05/14/76-17-			28-21.0-		-	-	7.8-	300-		12-1-7-5-7-2-2-2-		-4-2-4-1-		-1-	-	-	-	-	3.20
56-43.5305-106.5377-2-14-						0-W08028-05/14/76-17-			27-19.0-		-	-	8.0-	1600-		15-1-7-5-7-1-2-2-		-4-2-4-1-		-1-	-	-	-	-	3.50
56-43.6277-106.3200-2-15-						0-W08029-05/16/76-13-			20-		-	-	-	-		6-1-7-5-6-		- - -	-4-3-3-2-		-1-	-	-	-	-	3.20
56-43.5986-106.2794-2-15-						0-W08030-05/16/76-14-			20-		C	-	-	-		9-1-7-4-6-		- - -	-4-3-3-2-		-9-	-	-	-	-	3.00
56-43.5950-106.2583-2-15-						0-W08031-05/16/76-14-			20-		C	-	-	-		6-4-7-4-6-		- - -	-4-3-3-2-		-9-	-	-	-	-	3.30
56-43.6041-106.2336-2-15-						0-W08032-05/16/76-14-			20-		C	-	-	-		9-1-7-4-6-		- - -	-4-3-3-2-		-9-	-	-	-	-	4.20
56-43.5991-106.2211-2-15-						0-W08033-05/16/76-14-			15-		C	-	-	-		9-1-7-4-6-		- - -	-4-3-3-2-		-9-	-	-	-	-	2.80
56-43.7438-106.6011-2-97-						0-W08035-05/16/76-17-			16-		C	-	-	-		9-1-7-4-6-		- - -	-4-3-3-1-		-1-	-	-	-	-	2.70
56-43.7480-106.5969-2-15-						0-W08036-05/16/76-17-			16-		-	-	-	-		6-1-7-4-6-		- - -	-4-3-2-1-		-1-	-	-	-	-	2.70
56-43.5952-106.1972-2-15-						0-W08037-05/17/76-12-			27-		C	-	-	-		6-1-7-4-7-		- - -	-4-2-3-1-		-1-	-	-	-	-	2.70
56-43.5577-106.2102-2-14-						0-W08038-05/17/76-12-			25-18.0-		C	-	7.6-	1700-		9-1-7-5-7-1-2-2-		-4-2-3-1-		-1-	-	-	-	-	3.CC
56-43.5744-106.2252-2-15-						0-W08039-05/17/76-13-			23-		C	-	-	-		9-1-7-4-7-		- - -	-4-2-3-1-		-9-	-	-	-	-	3.1C
56-43.5505-106.1877-2-14-						0-W08040-05/17/76-13-			26-18.0-		C	-	7.2-	6000-		9-1-7-5-7-2-3-1-		-4-2-2-1-		-9-	-	-	-	-	2.90
56-43.5211-106.1944-2-14-						0-W08041-05/17/76-13-			25-18.0-		C	-	8.4-	200-		9-1-7-5-6-1-2-2-		-4-2-3-1-		-9-	-	-	-	-	2.90
56-43.5250-106.1419-2-15-						0-W08042-05/17/76-14-			25-		-	-	-	-		10-1-7-4-7-		- - -	-4-2-2-1-		-1-	-	-	-	-	3.20
56-43.5361-106.1372-2-15-						0-W08044-05/17/76-15-			28-		-	-	-	-		12-1-7-4-7-		- - -	-4-2-2-1-		-1-	-	-	-	-	3.1C
56-43.5525-106.1586-2-15-						0-W08045-05/17/76-15-			27-		-	-	-	-		9-1-7-4-7-		- - -	-4-2-3-1-		-1-	-	-	-	-	2.90
56-43.5700-106.1550-2-15-						0-W08046-05/17/76-15-			27-		-	-	-	-		9-1-7-5-7-2-2-1-		-4-2-2-1-		-1-	-	-	-	-	3.10
56-43.6400-106.6050-2-97-						0-W08047-05/08/76-11-			20-		-	-	-	-		9-1-1-5-7-1-3-3-		-4-3-2-1-		-1-	-	-	-	-	4.50
56-43.5919-106.7033-2-97-						0-W08049-05/08/76-15-			26-		-	-	-	-		14-1-1-5-6-		- - -	-4-3-1-1-		-1-	-	-	-	-	4.10
56-43.5925-106.7005-2-97-						0-W08050-05/08/76-15-			26-		-	-	-	-		16-1-7-5-6-2-2-3-1-		-4-2-2-1-		-1-	-	-	-	-	3.40
56-43.5777-106.7122-2-97-						0-W08051-05/08/76-16-			26-		-	-	-	-		9-1-1-5-6-		- - -	-4-2-1-1-		-1-	-	-	-	-	3.00
56-43.5472-106.6783-2-97-						0-W08052-05/08/76-18-			23-		-	-	-	-		14-1-1-5-6-		- - -	-4-3-2-1-		-1-	-	-	-	-	4.5C
56-43.6672-106.5363-2-15-						0-W08055-05/10/76-13-			25-		C	-	-	-		9-1-1-5-1-		- - -	-4-3-2-2-		-1-	-	-	-	-	3.20
56-43.6486-106.5544-2-15-						0-W08056-05/10/76-13-			25-		-	-	-	-		12-1-1-5-6-		- - -	-4-3-2-3-		-1-	-	-	-	-	3.40
56-43.6466-106.6044-2-14-						0-W08057-05/10/76-14-			24-18.5-		-	-	6.5-	11250-		11-1-1-5-1-		-3-1-3-4-3-2-3-		-1-	-	-	-	-	6.00
56-43.6280-106.6141-2-97-						0-W08058-05/10/76-17-			18-		C	-	-	-		21-1-1-5-7-1-2-2-3-		-4-4-5-4-		-1-	-	-	-	-	4.10
56-43.7094-106.3544-2-15-						0-W08060-05/11/76-14-			17-		-	-	-	-		19-1-1-5-1-		-1- -	-4-2-3-4-		-1-	-	-	-	-	3.7C

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.6005-106.5238-2-14-						0-W08001	-5	-5	-5	23	-20	-15	12	-10	-15	2	61
56-43.5997-106.5216-2-97-						0-W08002	-5	-5	-5	26	-20	-15	11	-10	-15	3	78
56-43.6122-106.4994-2-97-						0-W08003	-5	-5	-5	22	-20	-15	25	-10	-15	3	93
56-43.6447-106.4672-2-14-						0-W08004	-5	-5	-5	25	-20	23	17	-10	-15	2	49
56-43.6197-106.3988-2-15-						0-W08005	-5	-5	-5	21	-20	-15	10	-10	-15	2	45
56-43.6288-106.4766-2-97-						0-W08006	-5	-5	-5	27	-20	-15	10	-10	-15	2	45
56-43.6283-106.4227-2-15-						0-W08007	-5	5	-5	37	-20	-15	12	-10	-15	2	33
56-43.6361-106.3927-2-15-						0-W08008	-5	-5	-5	18	-20	-15	5	-10	-15	2	20
56-43.6188-106.3594-2-15-						0-W08009	-5	-5	-5	10	-20	-15	-5	-10	-15	1	20
56-43.6188-106.3561-2-15-						0-W08010	-5	-5	-5	22	-20	15	9	-10	-15	2	32
56-43.7005-106.6400-2-14-						0-W08011	-5	-5	-5	10	-20	23	13	-10	-15	2	48
56-43.6058-106.5688-2-15-						0-W08013	-5	-5	-5	-10	-20	-15	9	-10	-15	2	45
56-43.6055-106.585C-2-15-						0-W08014	-5	-5	-5	25	-20	16	8	-10	-15	2	39
56-43.5822-106.5694-2-15-						0-W08015	-5	-5	-5	14	-20	19	10	-10	-15	2	27
56-43.5627-106.5663-2-15-						0-W08016	-5	-5	-5	14	-20	-15	12	-10	-15	3	30
56-43.5947-106.1466-2-14-						0-W08018	-5	-5	-5	10	-20	-15	6	-10	-15	1	15
56-43.5966-106.1788-2-15-						0-W08019	-5	-5	-5	18	-20	-15	-5	-10	-15	1	25
56-43.6222-106.1611-2-15-						0-W08020	-5	-5	-5	18	-20	-15	-5	-10	-15	1	14
56-43.6394-106.5455-2-15-						0-W08021	-5	-5	-5	27	-20	15	8	-10	-15	2	62
56-43.6580-106.5255-2-15-						0-W08022	-5	-5	-5	30	-20	-15	13	-10	-15	2	62
56-43.5366-106.3227-2-15-						0-W08023										2	28
56-43.5155-106.3044-2-15-						0-W08024	-5	-5	-5	17	-20	-15	-5	-10	-15	2	35
56-43.5083-106.2833-2-15-						0-W08025	-5	-5	-5	30	-20	-15	-5	-10	-15	2	29
56-43.5177-106.5177-2-14-						0-W08026	-5	-5	-5	32	-20	17	6	-10	-15	2	30
56-43.5305-106.5377-2-14-						0-W08028										2	31
56-43.6277-106.3200-2-15-						0-W08029	-5	-5	-5	24	-20	-15	-5	-10	-15	2	29
56-43.5986-106.2794-2-15-						0-W08030	-5	-5	-5	32	-20	-15	8	-10	-15	2	30
56-43.5950-106.2583-2-15-						0-W08031	-5	-5	-5	28	-20	21	9	-10	-15	1	28
56-43.6041-106.2336-2-15-						0-W08032	-5	-5	-5	17	-20	-15	-5	-10	-15	2	20
56-43.5991-106.2211-2-15-						0-W08033	-5	-5	-5	23	-20	16	10	-10	-15	2	36
56-43.7438-106.6011-2-97-						0-W08035	-5	-5	-5	23	-20	-15	-5	-10	-15	2	30
56-43.7480-106.5969-2-15-						0-W08036	-5	-5	-5	27	-20	-15	7	-10	-15	2	28
56-43.5952-106.1972-2-15-						0-W08037	-5	-5	-5	11	-20	-15	7	-10	-15	2	28
56-43.5577-106.2102-2-14-						0-W08038	-5	-5	-5	20	-20	-15	11	-10	-15	2	31
56-43.5744-106.2252-2-15-						0-W08039	-5	-5	-5	21	-20	16	5	-10	-15	2	29
56-43.5505-106.1877-2-14-						0-W08040	-5	-5	-5	21	-20	-15	-5	-10	-15	2	39
56-43.5211-106.1944-2-14-						0-W08041	-5	-5	-5	19	-20	-15	14	-10	-15	2	35
56-43.5250-106.1419-2-15-						0-W08042	-5	-5	-5	14	-20	-15	10	-10	-15	2	33
56-43.5361-106.1372-2-15-						0-W08044	-5	-5	-5	15	-20	-15	8	-10	-15	1	13
56-43.5525-106.1586-2-15-						0-W08045	-5	-5	-5	27	-20	-15	15	-10	-15	2	42
56-43.5700-106.1550-2-15-						0-W08046	-5	-5	-5	17	-20	-15	7	-10	-15	1	19
56-43.6400-106.6050-2-97-						0-W08047	-5	-5	-5	31	-20	37	8	-10	-15	2	74
56-43.5919-106.7033-2-97-						0-W08049										2	32
56-43.5925-106.7005-2-97-						0-W08050	-5	-5	-5	21	-20	-15	-5	-10	-15	2	53
56-43.5777-106.7122-2-97-						0-W08051	-5	-5	-5	15	-20	-15	10	-10	-15	2	40
56-43.5472-106.6783-2-97-						0-W08052										3	53
56-43.6672-106.5363-2-15-						0-W08055	-5	-5	-5	31	-20	28	17	-10	-15	2	60
56-43.6486-106.5544-2-15-						0-W08056	-5	-5	-5	29	-20	24	8	-10	-15	2	70
56-43.6446-106.6044-2-14-						0-W08057	-5	-5	-5	43	-20	44	5	-10	-15	2	103
56-43.6280-106.6141-2-97-						0-W08058	-5	-5	-5	17	-20	25	11	-10	-15	1	25
56-43.7094-106.3544-2-15-						0-W08060	-5	-5	-5	45	-20	19	14	-10	-15	3	42

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.6005-	106.5238-	2-	14-	0-	W08001	58960	-0.06	798	25890	62	-55	8.3	51	4.3	4	1.1	13240	7.2	17300	34	0.3
56-	43.5997-	106.5216-	2-	97-	0-	W08002	66240	-0.07	662	23550	66	-60	8.6	69	5.0	4	1.2	14970	5.5	18350	38	0.4
56-	43.6122-	106.4994-	2-	97-	0-	W08003	71890	-0.09	793	16850	61	113	9.2	72	5.9	3	1.1	16940	3.7	19630	39	0.2
56-	43.6447-	106.4672-	2-	14-	0-	W08004	58220	-0.05	575	7110	54	275	7.6	38	3.7	4	0.8	11270	4.2	16750	36	0.3
56-	43.6197-	106.3988-	2-	15-	0-	W08005	52130	-0.05	525	23290	51	-60	8.1	50	4.0	4	1.0	12410	6.3	16420	31	0.3
56-	43.6288-	106.4266-	2-	97-	0-	W08006	53840	-0.06	579	29050	74	370	10.1	61	3.9	4	1.1	14560	8.1	14960	31	0.5
56-	43.6283-	106.4227-	2-	15-	0-	W08007	51770	-0.07	514	27790	55	-85	6.7	30	3.4	3	1.1	11950	5.8	18640	34	0.3
56-	43.6361-	106.3927-	2-	15-	0-	W08008	41970	-0.04	528	15750	52	-54	4.5	29	1.6	3	0.7	7932	6.6	13970	31	0.3
56-	43.6188-	106.3594-	2-	15-	0-	W08009	37560	-0.05	665	19770	79	708	6.3	43	2.2	5	1.1	12770	20.2	12120	45	0.5
56-	43.6188-	106.3561-	2-	15-	0-	W08010	49130	-0.07	563	20130	81	416	9.0	48	3.2	4	1.4	13220	8.0	15410	35	0.4
56-	43.7005-	106.6400-	2-	14-	0-	W08011	49610	-0.07	603	15080	49	-59	5.4	39	3.3	3	1.0	10200	7.4	16220	28	0.2
56-	43.6058-	106.5688-	2-	15-	0-	W08013	44760	-0.05	648	24120	50	123	4.9	27	2.9	3	0.9	9738	10.3	14700	30	0.3
56-	43.6055-	106.5850-	2-	15-	0-	W08014	41630	-0.05	730	19750	44	525	6.8	32	2.6	3	1.0	10650	6.6	15490	30	0.3
56-	43.5822-	106.5694-	2-	15-	0-	W08015	43440	-0.05	717	6950	70	101	6.4	47	3.2	4	1.2	10350	22.8	13190	40	0.7
56-	43.5627-	106.5663-	2-	15-	0-	W08016	48430	-0.07	980	6624	52	-78	7.1	28	3.3	3	1.0	15730	7.0	12790	37	0.4
56-	43.5947-	106.1466-	2-	14-	0-	W08018	36380	-0.04	517	6842	42	96	4.8	28	2.1	4	0.7	6601	12.0	11860	30	0.3
56-	43.5966-	106.1788-	2-	15-	0-	W08019	42270	-0.05	582	12990	60	-48	6.9	39	3.4	4	1.0	11050	13.1	14090	35	0.4
56-	43.6222-	106.1611-	2-	15-	0-	W08020	30510	-0.05	338	1426	45	-27	5.5	33	2.1	3	0.7	4547	11.1	9235	26	0.3
56-	43.6394-	106.5455-	2-	15-	0-	W08021	54680	-0.08	904	19380	52	-58	7.8	56	3.8	2	1.1	16210	4.9	14890	29	0.3
56-	43.6580-	106.5255-	2-	15-	0-	W08022	57220	-0.05	562	35360	54	-61	7.6	46	4.4	3	0.8	11800	4.4	16200	29	0.3
56-	43.5366-	106.3227-	2-	15-	0-	W08023	63600	-0.07	698	24410	52	-67	10.2	51	4.4	4	1.2	15990	5.1	16920	33	0.4
56-	43.5155-	106.3044-	2-	15-	0-	W08024	48550	-0.06	571	14300	68	-61	7.8	45	3.6	4	1.1	11210	9.6	15240	37	0.3
56-	43.5083-	106.2833-	2-	15-	0-	W08025	40020	-0.06	547	7120	50	-59	6.3	41	2.5	3	1.1	10360	8.6	14300	30	0.3
56-	43.5177-	106.5177-	2-	14-	0-	W08026	55110	-0.05	630	21110	53	-63	6.3	34	2.9	4	0.8	11390	6.1	16090	30	0.3
56-	43.5305-	106.5377-	2-	14-	0-	W08028	51920	-0.05	607	7789	65	-60	5.6	34	3.4	4	1.2	8637	10.5	15690	38	0.4
56-	43.6277-	106.3200-	2-	15-	0-	W08029	45560	-0.06	844	32040	82	-73	9.1	48	3.0	3	1.4	14480	9.7	14230	42	0.5
56-	43.5986-	106.2794-	2-	15-	0-	W08030	41260	-0.06	558	18340	47	323	6.1	34	2.6	3	0.9	9517	7.1	16070	30	0.3
56-	43.5950-	106.2583-	2-	15-	0-	W08031	47050	-0.05	530	24120	52	285	5.9	33	3.5	4	0.9	9733	6.9	15400	28	0.3
56-	43.6041-	106.2336-	2-	15-	0-	W08032	31550	-0.04	477	7255	55	65	5.7	30	1.8	4	0.9	6776	14.4	13470	32	0.4
56-	43.5991-	106.2211-	2-	15-	0-	W08033	63720	-0.07	599	21800	74	-62	10.5	60	3.9	4	1.2	14570	5.8	14390	37	0.4
56-	43.7438-	106.6011-	2-	97-	0-	W08035	59490	-0.07	486	15200	54	-77	7.1	39	2.9	3	1.0	12830	5.8	15550	33	0.3
56-	43.7480-	106.5969-	2-	15-	0-	W08036	49750	-0.05	498	12170	44	-69	6.6	33	2.5	4	0.9	9715	6.3	16840	28	0.3
56-	43.5952-	106.1972-	2-	15-	0-	W08037	40040	-0.05	616	25270	53	1970	6.9	28	2.5	3	1.0	9059	6.8	12440	27	0.3
56-	43.5577-	106.2109-	2-	14-	0-	W08038	50390	-0.06	542	21960	69	-67	8.0	44	3.3	4	1.1	11830	7.0	17230	34	0.3
56-	43.5744-	106.2252-	2-	15-	0-	W08039	49600	-0.07	560	10980	55	-69	5.9	35	3.5	3	0.9	10900	7.5	15700	33	0.3
56-	43.5505-	106.1877-	2-	14-	0-	W08040	44370	-0.05	587	18870	52	573	6.2	34	3.0	4	0.9	8658	7.2	14710	29	0.3
56-	43.5211-	106.1944-	2-	14-	0-	W08041	56970	-0.06	581	16200	65	-60	7.9	43	3.9	4	1.0	13230	7.3	17930	32	0.3
56-	43.5250-	106.1419-	2-	15-	0-	W08042	47550	-0.07	535	17910	70	-63	8.3	49	3.5	4	1.2	11070	9.1	14960	37	0.5
56-	43.5361-	106.1372-	2-	15-	0-	W08044	24160	-0.05	446	-394	42	-30	4.2	21	1.5	2	0.8	5561	12.9	10700	26	0.3
56-	43.5525-	106.1586-	2-	15-	0-	W08045	56590	-0.05	566	21840	53	-58	6.9	37	4.2	4	1.0	11500	5.1	17970	26	0.3
56-	43.5700-	106.1550-	2-	15-	0-	W08046	30550	-0.05	396	11410	44	-49	6.2	29	2.3	3	0.8	5871	10.1	10810	22	0.3
56-	43.6400-	106.6050-	2-	97-	0-	W08047	67240	-0.08	661	43190	70	-63	10.4	72	6.7	4	1.3	16600	4.8	16990	44	0.3
56-	43.5919-	106.7033-	2-	97-	0-	W08049	62530	-0.08	363	22680	56	-67	9.4	39	5.3	4	1.0	14200	4.7	16320	35	0.3
56-	43.5925-	106.7005-	2-	97-	0-	W08050	46420	-0.05	564	30830	45	63	5.6	33	2.6	3	0.9	9283	5.2	15510	26	0.2
56-	43.5777-	106.7122-	2-	97-	0-	W08051	54580	-0.06	561	20120	61	-59	7.4	43	3.7	4	1.0	12010	7.2	18420	30	0.3
56-	43.5472-	106.6783-	2-	97-	0-	W08052	74260	-0.09	837	50250	80	-60	11.0	110	7.1	4	1.4	17100	3.9	18150	42	0.4
56-	43.6672-	106.5363-	2-	15-	0-	W08055	67530	-0.09	574	22500	49	-74	8.8	55	6.3	3	1.0	17550	3.5	18280	30	0.3
56-	43.6486-	106.5544-	2-	15-	0-	W08056	74340	-0.07	824	16680	49	-53	9.1	69	5.6	4	1.0	15960	4.0	20600	33	0.3
56-	43.6466-	106.6044-	2-	14-	0-	W08057	61710	-0.08	852	125100	57	-60	12.3	70	6.3	4	1.1	16940	3.2	13610	37	0.4
56-	43.6280-	106.6141-	2-	97-	0-	W08058	85110	-0.09	579	11680	89	-63	9.8	65	7.6	5	1.3	18540	4.8	22250	49	0.5
56-	43.7094-	106.3544-	2-	15-	0-	W08060	85530	-0.10	466	7942	59	-39	9.0	55	4.5	4	0.9	18170	3.8	16520	31	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.6005-106.5238-2-14-						0-W08001	15810	193	5312	48	-2	7.2	3.8	-200	-1	-1	9.9	3380	128	2.6	-90	0.374
56-43.5997-106.5216-2-97-						0-W08002	14820	130	4847	57	-2	8.2	4.8	-220	-1	-1	11.2	3361	134	2.8	109	0.348
56-43.6122-106.4994-2-97-						0-W08003	23510	168	4956	63	-3	10.3	3.4	-246	-1	-1	9.7	3829	209	2.9	-48	0.412
56-43.6447-106.4672-2-14-						0-W08004	14270	273	8638	40	-2	5.6	4.4	-233	-1	-1	8.8	3007	62	2.7	-78	0.443
56-43.6197-106.3988-2-15-						0-W08005	21610	228	7989	41	-2	6.5	3.9	-203	-1	-1	8.6	2638	73	3.1	50	0.360
56-43.6288-106.4266-2-97-						0-W08006	26050	295	11270	56	-2	7.1	4.9	-272	-1	-1	8.8	3371	70	3.8	91	0.375
56-43.6283-106.4227-2-15-						0-W08007	27070	315	10980	-21	-2	5.8	3.3	-280	-1	-1	8.3	2737	52	3.4	-36	0.446
56-43.6361-106.3927-2-15-						0-W08008	13390	225	6297	28	-1	3.5	3.2	-189		-1	7.6	2813	45	2.8	43	0.461
56-43.6188-106.3594-2-15-						0-W08009	15710	375	7131	40	-2	4.6	6.5	-231	-1	-1	11.3	3798	54	3.2	50	0.460
56-43.6188-106.3561-2-15-						0-W08010	17090	347	6543	59	-2	6.0	5.4	-283	-1	-1	10.4	3060	59	3.7	76	0.356
56-43.7005-106.6400-2-14-						0-W08011	12370	115	5222	49	-2	5.3	2.7	-202	-1	-1	7.2	2803	92	2.1	-35	0.500
56-43.6058-106.5688-2-15-						0-W08013	11500	159	8678	41	-1	4.3	2.8	286	-1	-1	8.5	4254	63	2.1	51	0.412
56-43.6055-106.5850-2-15-						0-W08014	12120	241	8000	39	-1	4.5	3.6	-208	-1	-1	8.1	2282	67	2.1	72	0.432
56-43.5822-106.5694-2-15-						0-W08015	4013	293	7130	37	-2	4.5	5.6	-230	-1	-1	14.5	3310	47	4.3	37	0.386
56-43.5627-106.5663-2-15-						0-W08016	8173	777	5038	-24	-2	5.2	2.3	-391	-1	-1	10.1	2229	58	3.4	-43	0.554
56-43.5947-106.1466-2-14-						0-W08018	7425	313	5325	23	-1	3.4	2.8	-218	-1	-1	6.7	2840	46	3.1	48	0.821
56-43.5966-106.1788-2-15-						0-W08019	10540	312	3885	33	-2	5.1	4.3	-204	-1	-1	8.9	2958	53	3.0	32	0.472
56-43.6272-106.1611-2-15-						0-W08020	2815	74	783	-14	-2	4.0	4.1	-137	-1	-1	7.3	2434	39	2.7	54	0.493
56-43.6394-106.5455-2-15-						0-W08021	22380	188	4320	51	-2	8.2	3.1	-225	-1	-1	7.0	3188	145	2.6	-40	0.486
56-43.6580-106.5255-2-15-						0-W08022	9570	231	6879	35	-2	6.4	3.4	-210	-1	-1	7.3	3659	113	1.8	83	0.479
56-43.5366-106.3227-2-15-						0-W08023	21000	391	6872	51	-2	8.4	4.1	-264	-1	-1	8.7	3355	75	3.1	73	0.345
56-43.5155-106.3044-2-15-						0-W08024	15980	270	5596	46	-2	5.6	5.9	-239	-1	-1	11.1	2743	47	3.3	63	0.288
56-43.5083-106.2833-2-15-						0-W08025	10680	252	4781	-21	-2	4.5	2.6	-233	-1	-1	6.8	3465	53	4.0	-35	0.441
56-43.5177-106.5177-2-14-						0-W08026	19130	331	6564	34	-2	5.6	3.3	-238	-1	1	7.5	2668	63	2.6	59	0.427
56-43.5305-106.5377-2-14-						0-W08028	8444	109	8733	43	-2	4.5	4.2	-187	-1	-1	10.8	2572	52	3.4	82	0.324
56-43.6277-106.3200-2-15-						0-W08029	17370	705	4886	42	-2	6.0	5.9	-356	-1	-1	10.0	2830	49	4.5	67	0.320
56-43.5986-106.2794-2-15-						0-W08030	16090	321	5608	-20	-2	4.2	3.0	-269	-1	-1	7.9	2101	46	2.7	63	0.380
56-43.5950-106.2583-2-15-						0-W08031	18320	362	6649	38	-2	4.5	3.2	-248	-1	-1	8.0	2567	55	2.6	44	0.413
56-43.6041-106.2336-2-15-						0-W08032	8407	175	2544	39	-1	3.7	3.4	-157	-1	-1	7.1	2567	41	3.3	48	0.592
56-43.5991-106.2211-2-15-						0-W08033	15660	220	4815	47	-2	8.3	5.7	-247	-1	-1	10.9	3375	75	3.8	-37	0.257
56-43.7438-106.6011-2-97-						0-W08035	14790	251	8973	-24	-2	6.6	3.5	-266	-1	-1	7.2	2631	62	3.4	-37	0.375
56-43.7480-106.5969-2-15-						0-W08036	13620	426	7542	28	-1	4.6	3.7	-264	-1	-1	7.1	2747	60	2.2	55	0.380
56-43.5952-106.1972-2-15-						0-W08037	13360	368	10700	31	-2	3.9	3.5	-261	-1	-1	8.1	2079	33	2.9	49	0.333
56-43.5577-106.2102-2-14-						0-W08038	16240	278	6751	41	-2	5.6	5.0	-257	-1	-1	10.3	2591	53	2.5	69	0.291
56-43.5744-106.2252-2-15-						0-W08039	13980	288	6513	-22	-2	4.9	2.7	-255	-1	-1	8.9	2439	55	2.6	-31	0.348
56-43.5505-106.1877-2-14-						0-W08040	13050	268	7553	35	-1	4.0	3.2	-231	-1	-1	7.9	2405	47	2.5	49	0.367
56-43.5211-106.1944-2-14-						0-W08041	15670	328	5698	47	-2	6.5	4.4	-236	-1	-1	10.3	3099	59	2.9	97	0.282
56-43.5250-106.1419-2-15-						0-W08042	13800	282	4990	36	-2	5.8	4.9	-254	-1	-1	10.0	3208	51	4.1	-77	0.320
56-43.5361-106.1372-2-15-						0-W08044	3729	149	1065	-17	-1	2.5	2.1	-166	-1	-1	5.3	2176	31	2.3	51	0.585
56-43.5525-106.1586-2-15-						0-W08045	18770	310	5254	40	-2	5.9	3.6	-228	-1	-1	7.9	2974	68	2.5	59	0.367
56-43.5700-106.1550-2-15-						0-W08046	6861	288	2631	-18	-2	3.4	3.0	-226	-1	-1	6.9	2350	32	2.9	65	0.449
56-43.6400-106.6050-2-97-						0-W08047	18690	125	4027	59	-2	8.9	6.7	-237	-1	-1	11.9	2822	187	3.4	134	0.378
56-43.5919-106.7033-2-97-						0-W08049	17900	297	4670	56	-3	7.5	3.7	-281	-1	-1	9.3	3265	87	3.0	-40	0.441
56-43.5925-106.7005-2-97-						0-W08050	15120	138	7411	33	-1	4.4	3.0	244	-1	-1	7.0	2740	105	1.9	52	0.486
56-43.5777-106.7122-2-97-						0-W08051	14700	272	6066	42	-2	6.6	4.2	-219	-1	-1	9.8	2991	66	3.5	74	0.306
56-43.5472-106.6783-2-97-						0-W08052	19110	152	3188	51	-3	10.8	6.8	-243	-1	-1	11.2	3675	258	2.4	176	0.402
56-43.6672-106.5363-2-15-						0-W08055	34090	274	6036	53	-3	9.1	3.3	-296	-1	-1	9.4	3484	123	-2.1	-54	0.340
56-43.6486-106.5544-2-15-						0-W08056	24510	208	4372	42	-2	9.1	3.6	-225	-1	-1	8.2	4350	196	2.4	67	0.415
56-43.6466-106.6044-2-14-						0-W08057	14600	162	2560	66	-2	8.6	4.8	489	-1	-1	8.6	3299	280	3.1	-95	0.698
56-43.6280-106.6141-2-97-						0-W08058	19480	137	4621	62	-3	10.1	6.5	-250	-1	-1	17.1	3793	114	4.6	122	0.240
56-43.7094-106.3544-2-15-						0-W08060	17840	148	1174	-32	-3	10.0	3.5	-231	-1	-1	9.3	3053	134	-2.4	-49	0.398

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples (1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.7322-106.3122-2-14-						0-W08061-05/11/76-17-		18-15.0-	-	-		-	6.4-	75000-	14-1-1-5-7-2-3-1-2-4-3-2-2-													-1-	-	-	-	-	2.80
56-43.6872-106.2750-2-15-						0-W08063-05/11/76-19-		11-	-	-		-	-	-	11-1-4-4-1-	-	-	-	-4-3-2-2-							-1-	-	-	-	-	6.20
56-43.6880-106.2833-2-15-						0-W08064-05/11/76-19-		11-	-	-		-	-	-	9-1-4-	-	-	-	-	-4-3-2-2-							-1-	-	-	-	-	3.80
56-43.6827-106.2900-2-14-						0-W08066-05/12/76-12-		14-15.0-	C-	-		-	6.4-	3850-	14-1-4-5-1-			-3-1-3-4-2-3-2-											-1-	-	-	-	-	3.40
56-43.6650-106.3055-2-15-						0-W08067-05/12/76-15-		21-	-	-		-	-	-	14-1-1-4-6-			-1-	-	-4-1-4-2-							-1-	-	-	-	-	2.90
56-43.6600-106.3038-2-15-						0-W08068-05/12/76-16-		11-	-	-		-	-	-	9-1-4-4-6-			-1-	-	-4-1-4-2-							-1-	-	-	-	-	3.00
56-43.6772-106.3250-2-97-						0-W08070-05/12/76-17-		18-	-	-		-	-	-	19-1-1-5-7-			-1-	-	-4-3-1-2-							-1-	-	-	-	-	3.30
56-43.6644-106.3561-2-15-						0-W08071-05/12/76-18-		18-	-	-		-	-	-	12-1-1-5-1-1-2-1-2-4-2-3-2-												-1-	-	-	-	-	4.30
56-43.6608-106.3550-2-15-						0-W08072-05/12/76-18-		17-	-	-		-	-	-	9-1-1-5-1-1-1-			-2-4-2-3-2-											-1-	-	-	-	-	4.10
56-43.7475-106.2683-2-15-						0-W08073-05/13/76-11-		19-	-	-		-	-	-	16-1-1-5-1-	-	-	-	-4-3-2-1-							-1-	-	-	-	-	5.50
56-43.6488-106.3252-2-97-						0-W08074-05/13/76-12-		25-	-	-		-	-	-	12-1-1-5-6-			-1-	-	-4-3-3-1-							-1-	-	-	-	-	3.50
56-43.6522-106.3127-2-14-						0-W08075-05/13/76-12-		25-23.5-	-	-		-	6.5-	3600-	12-1-1-5-7-			-2-4-	-	-4-2-3-1-							-1-	-	-	-	-	4.90
56-43.8008-106.4277-2-97-						0-W08078-05/13/76-18-		23-	-	-		-	-	-	11-1-6-5-6-	-	-	-	-4-3-1-1-							-1-	-	-	-	-	2.80
56-43.8055-106.4738-2-14-						0-W08079-05/14/76-11-		24-17.5-	-	-		-	6.5-	210-	11-1-6-5-7-1-3-1-3-4-3-2-1-												-1-	-	-	-	-	2.70
56-43.7894-106.4488-2-97-						0-W08080-05/13/76-18-		21-	-	-		-	-	-	11-1-6-5-6-			-1-	-	-4-3-1-1-							-1-	-	-	-	-	2.90
56-43.8458-106.3966-2-14-						0-W08081-05/14/76-12-		25-21.5-	-	-		-	6.5-	220-	10-1-1-5-7-			-2-1-	-	-4-3-2-1-							-1-	-	-	-	-	2.60
56-43.8722-106.4294-2-15-						0-W08082-05/14/76-14-		28-	-	-		-	-	-	13-1-1-5-1-	-	-	-	-4-3-3-1-							-1-	-	-	-	-	2.60
56-43.8613-106.6644-2-11-						0-W08083-05/14/76-15-		24-12.0-	-	-		-	6.7-	1500-	15-1-1-5-8-2-3-1-3-4-3-3-2-												-1-	-	-	-	-	4.80
56-43.8611-106.6622-2-14-						0-W08084-05/14/76-16-		23-21.5-	-	-		-	6.6-	1550-	11-1-1-5-8-2-3-1-3-4-3-3-2-												-1-	-	-	-	-	3.80
56-43.9494-106.7100-2-15-						0-W08087-05/17/76-11-		24-	-C-	-		-	-	-	12-1-1-6-7-3-4-3-3-4-2-3-1-												-1-	-	-	-	-	2.70
56-43.8877-106.6666-2-15-						0-W08089-05/18/76-11-		26-	-	-		-	-	-	12-1-1-4-1-	-1-	-	-4-3-3-1-									-1-	-	-	-	-	2.60
56-43.9479-106.6844-2-14-						0-W08092-05/18/76-18-		23-20.0-	-	-		-	7.5-	1625-	15-1-1-	-	-1-3-1-		-4-3-2-2-									-1-	-	-	-	-	3.10
56-43.9725-106.6927-2-15-						0-W08093-05/18/76-18-		25-	-	-		-	-	-	6-1-1-5-7-3-3-1-1-4-3-2-2-												-1-	-	-	-	-	3.20
56-43.9222-106.6450-2-14-						0-W08094-05/19/76-10-		18-17.0-	-	-		-	6.3-	700-	11-1-7-5-7-1-3-3-			-4-3-2-1-											-1-	-	-	-	-	3.70
56-43.9461-106.6016-2-14-						0-W08095-05/19/76-11-		19-17.0-	-	-		-	8.5-	165-	8-1-7-5-8-1-3-3-			-4-3-2-1-											-1-	-	-	-	-	3.90
56-43.9444-106.5850-2-15-						0-W08096-05/19/76-11-		20-	-	-		-	-	-	11-1-7-5-6-	-	-	-	-4-3-3-1-							-1-	-	-	-	-	3.60
56-43.9269-106.5377-2-15-						0-W08097-05/19/76-12-		23-	-	-		-	-	-	13-1-3-5-6-	-	-	-	-4-3-3-1-							-1-	-	-	-	-	3.50
56-43.9061-106.5122-2-97-						0-W08099-05/19/76-15-		24-	-C-	-		-	-	-	17-1-7-5-6-	-	-	-	-4-3-2-1-							-1-	-	-	-	-	3.60
56-43.9672-106.5261-2-97-						0-W08101-05/19/76-15-		23-	-	-		-	-	-	11-1-7-5-6-	-	-	-	-4-3-1-1-							-1-	-	-	-	-	3.70
56-43.9805-106.5600-2-15-						0-W08102-05/19/76-15-		25-	-	-		-	-	-	13-1-7-5-6-	-	-	-	-4-3-3-1-							-1-	-	-	-	-	3.30
56-43.9927-106.5750-2-15-						0-W08103-05/19/76-16-		24-	-	-		-	-	-	11-1-7-5-6-	-	-	-	-4-3-2-1-							-1-	-	-	-	-	3.20
56-43.9916-106.5966-2-14-						0-W08104-05/19/76-16-		24-25.0-	-	-		-	6.6-	700-	5-1-7-5-8-1-3-3-			-4-3-3-2-											-1-	-	-	-	-	3.10
56-43.8891-106.5438-2-15-						0-W08105-05/20/76-10-		19-	-	-		-	-	-	15-1-1-5-6-	-1-		-2-4-3-2-2-									-1-	-	-	-	-	2.90
56-43.8638-106.5400-2-14-						0-W08107-05/20/76-11-		19-19.5-	-	-		-	6.3-	205-	11-1-1-4-7-1-2-2-3-4-3-2-2-												-1-	-	-	-	-	1.90
56-43.8950-106.5666-2-97-						0-W08109-05/20/76-12-		22-	-	-		-	-	-	12-1-1-5-7-	-	-	-	-4-3-2-3-							-1-	-	-	-	-	3.60
56-43.9588-106.6505-2-15-						0-W08110-05/21/76-11-		19-	-	-		-	-	-	13-1-1-4-6-	-1-	-	-4-3-2-2-									-1-	-	-	-	-	2.90
56-43.9883-106.6477-2-15-						0-W08111-05/21/76-11-		20-	-C-	-		-	-	-	14-1-1-5-6-	-1-	-	-4-3-2-2-									-1-	-	-	-	-	2.80
56-43.5455-106.5338-2-15-						0-W08112-05/14/76-11-		28-	-	-		-	-	-	13-1-7-4-7-	-	-	-	-4-2-3-1-							-1-	-	-	-	-	5.00
56-43.5444-106.5344-2-15-						0-W08113-05/14/76-11-		28-	-	-		-	-	-	18-1-7-4-7-	-	-	-	-4-2-3-1-							-1-	-	-	-	-	3.40
56-43.5844-106.5061-2-14-						0-W08115-05/14/76-12-		33-21.0-	-	-		-	7.8-	3400-	15-1-7-5-7-3-3-1-			-4-2-2-1-											-1-	-	-	-	-	3.90
56-43.5891-106.4822-2-97-						0-W08116-05/14/76-12-		33-	-	-		-	-	-	12-1-7-4-7-	-	-	-	-4-2-2-1-							-1-	-	-	-	-	3.50
56-43.5400-106.4661-2-14-						0-W08117-05/14/76-13-		31-20.0-	-	-		-	8.2-	1500-	6-1-7-5-7-2-2-1-			-4-2-2-1-											-1-	-	-	-	-	3.30
56-43.5005-106.4488-2-97-						0-W08118-05/14/76-13-		32-	-	-		-	-	-	15-1-7-5-7-	-	-	-	-4-2-2-1-							-1-	-	-	-	-	3.70
56-43.5216-106.4244-2-15-						0-W08119-05/14/76-13-		32-	-	-		-	-	-	9-1-7-4-7-	-	-	-	-4-2-3-1-							-1-	-	-	-	-	2.60
56-43.5316-106.4200-2-14-						0-W08121-05/14/76-12-		30-21.0-	-	-		-	8.2-	13000-	9-1-7-5-7-2-2-2-			-4-2-2-1-											-1-	-	-	-	-	3.20
56-43.5480-106.4086-2-15-						0-W08122-05/14/76-12-		32-	-C-	-		-	-	-	12-1-7-4-7-	-	-	-	-4-2-3-1-							-1-	-	-	-	-	2.90
56-43.5666-106.3800-2-15-						0-W08124-05/14/76-14-		31-	-	-		-	-	-	9-1-7-4-7-	-	-	-	-4-2-3-1-							-1-	-	-	-	-	3.30
56-43.5644-106.3588-2-15-						0-W08125-05/14/76-15-		31-	-	-		-	-	-	12-1-7-5-7-3-3-1-			-4-2-3-1-											-1-	-	-	-	-	2.70
56-43.5100-106.3583-2-97-						0-W08127-05/14/76-15-		31-	-	-		-	-	-	12-1-7-5-7-	-	-	-	-4-2-3-1-							-1-	-	-	-	-	2.80
56-43.5438-106.3288-2-15-						0-W08128-05/14/76-14-		30-	-	-		-	-	-	6-1-7-5-7-2-2-1-			-4-2-3-1-									-1-	-	-	-	-	3.60
56-43.7697-106.6052-2-97-						0-W08129-05/04/76-14-		20-	-C-	-		-	-	-	6-1-7-4-6-	-	-	-	-4-3-3-2-							-1-	-	-	-	-	3.90

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.7322-106.3122-2-14-						0-W08061	-5	-5	-5	25	-20	-15	19	-10	-15	2	60
56-43.6872-106.2750-2-15-						0-W08063	-5	-5	-5	15	-20	15	10	-10	-15	2	16
56-43.6880-106.2833-2-15-						0-W08064	-5	-5	-5	14	-20	-15	10	-10	-15	2	10
56-43.6827-106.2900-2-14-						0-W08066	-5	-5	-5	18	-20	20	10	-10	-15	2	24
56-43.6650-106.3055-2-15-						0-W08067	-5	-5	-5	13	-20	-15	8	-10	16	1	9
56-43.6600-106.3038-2-15-						0-W08068	-5	-5	-5	10	-20	-15	9	-10	-15	1	13
56-43.6772-106.3250-2-97-						0-W08070	-5	-5	-5	44	-20	24	10	-10	-15	2	40
56-43.6644-106.3561-2-15-						0-W08071	-5	-5	-5	18	-20	23	8	-10	-15	2	30
56-43.6608-106.3550-2-15-						0-W08072	-5	-5	-5	13	-20	-15	9	-10	-15	2	30
56-43.7475-106.2683-2-15-						0-W08073	-5	-5	-5	22	-20	-15	12	-10	-15	2	50
56-43.6488-106.3252-2-97-						0-W08074	-5	-5	-5	31	-20	-15	5	-10	-15	2	41
56-43.6522-106.3127-2-14-						0-W08075	-5	-5	-5	24	-20	16	17	-10	-15	2	48
56-43.8009-106.4277-2-97-						0-W08076	-5	-5	-5	27	-20	-15	18	-10	-15	2	40
56-43.8055-106.4738-2-14-						0-W08079	-5	-5	-5	20	-20	-15	9	-10	-15	2	19
56-43.7894-106.4488-2-97-						0-W08080	-5	-5	-5	29	-20	18	21	-10	-15	3	35
56-43.8458-106.3966-2-14-						0-W08081	-5	-5	-5	16	-20	18	-5	-10	-15	2	25
56-43.8722-106.4294-2-15-						0-W08082	-5	-5	-5	32	-20	-15	12	-10	-15	2	25
56-43.8613-106.6644-2-11-						0-W08083	-5	-5	-5	20	-20	15	14	-10	-15	2	28
56-43.8611-106.6622-2-14-						0-W08084	-5	-5	-5	14	-20	-15	5	-10	-15	2	24
56-43.9494-106.7100-2-15-						0-W08087	-5	-5	-5	31	-20	-15	12	-10	17	2	33
56-43.8877-106.6666-2-15-						0-W08089	-5	-5	-5	17	-20	-15	18	-10	-15	1	13
56-43.9472-106.6844-2-14-						0-W08092	-5	-5	-5	20	-20	-15	-5	-10	-15	2	35
56-43.9725-106.6927-2-15-						0-W08093	-5	-5	-5	16	-20	-15	10	-10	-15	1	45
56-43.9227-106.6450-2-14-						0-W08094	-5	-5	-5	27	-20	-15	10	-10	-15	2	40
56-43.9461-106.6016-2-14-						0-W08095	-5	-5	-5	21	-20	-15	-5	-10	-15	2	23
56-43.9444-106.5850-2-15-						0-W08096	-5	-5	-5	19	-20	-15	10	-10	15	2	25
56-43.9269-106.5377-2-15-						0-W08097	-5	-5	-5	20	-20	32	16	-10	-15	3	49
56-43.9061-106.5122-2-97-						0-W08099	-5	-5	-5	31	-20	24	19	-10	-15	2	45
56-43.9672-106.5261-2-97-						0-W08101	-5	-5	-5	33	-20	31	11	-10	-15	2	31
56-43.9805-106.5600-2-15-						0-W08102	-5	-5	-5	27	-20	26	8	-10	-15	2	42
56-43.9927-106.5750-2-15-						0-W08103	-5	-5	-5	33	-20	-15	9	-10	-15	2	28
56-43.9916-106.5966-2-14-						0-W08104	-5	-5	-5	19	-20	17	8	-10	-15	1	24
56-43.8891-106.5438-2-15-						0-W08105	-5	-5	-5	12	-20	15	14	-10	-15	1	29
56-43.8638-106.5400-2-14-						0-W08107	-5	-5	-5	13	-20	-15	-5	-10	-15	-1	15
56-43.8950-106.5666-2-97-						0-W08109	-5	-5	-5	22	-20	-15	6	-10	-15	1	46
56-43.9588-106.6505-2-15-						0-W08110	-5	-5	-5	26	-20	19	6	-10	-15	2	24
56-43.9883-106.6477-2-15-						0-W08111	-5	-5	-5	19	-20	-15	12	-10	-15	2	32
56-43.5455-106.5338-2-15-						0-W08112	-5	-5	-5	13	-20	16	7	-10	-15	2	28
56-43.5444-106.5344-2-15-						0-W08113	-5	-5	-5	13	-20	-15	11	-10	-15	2	46
56-43.5844-106.5061-2-14-						0-W08115	-5	-5	6	27	-20	22	12	-10	-15	3	80
56-43.5891-106.4822-2-97-						0-W08116	-5	-5	-5	25	-20	32	7	-10	-15	2	62
56-43.5400-106.4661-2-14-						0-W08117	-5	-5	-5	22	-20	-15	9	-10	15	2	43
56-43.5005-106.4488-2-97-						0-W08118	-5	-5	-5	28	-20	29	10	-10	-15	2	77
56-43.5216-106.4244-2-15-						0-W08119	-5	-5	-5	34	-20	26	15	-10	-15	2	43
56-43.5216-106.4200-2-14-						0-W08121	-5	-5	-5	31	-20	28	13	-10	15	2	79
56-43.5480-106.4086-2-15-						0-W08122	-5	-5	-5	33	-20	15	9	-10	-15	2	46
56-43.5666-106.3800-2-15-						0-W08124	-5	-5	-5	-10	-20	22	12	-10	-15	2	41
56-43.5644-106.3588-2-15-						0-W08125	-5	-5	-5	16	-20	21	7	-10	-15	2	34
56-43.5100-106.3583-2-97-						0-W08127	-5	-5	-5	19	-20	19	7	-10	-15	1	29
56-43.5438-106.3288-2-15-						0-W08128	-5	-5	-5	18	-20	16	6	-10	-15	1	26
56-43.7697-106.6052-2-97-						0-W08129	-5	-5	-5	21	-20	-15	8	-10	-15	1	21

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.7372-	106.3122-	2-	14-	0-	W08061	36030	-0.04	535	9725	38	64	5.7	29	1.8	3	0.7	6951	8.5	13180	21	0.3
56-	43.6872-	106.2750-	2-	15-	0-	W08063	34770	-0.05	831	4018	84	-32	6.6	55	2.2	5	1.6	12780	36.4	11860	54	0.7
56-	43.6880-	106.2833-	2-	15-	0-	W08064	25700	-0.05	1107	1771	76	39	6.2	44	1.5	4	1.3	10410	28.8	10490	41	0.6
56-	43.6827-	106.2900-	2-	14-	0-	W08066	49300	-0.07	489	2284	53	-38	6.9	46	3.2	3	0.9	10580	8.7	15320	33	0.3
56-	43.6650-	106.3055-	2-	15-	0-	W08067	20590	-0.03	513	-341	39	35	3.4	31	1.4	3	0.6	4802	17.4	9869	24	0.4
56-	43.6600-	106.3038-	2-	15-	0-	W08068	30090	-0.04	445	-361	44	41	4.4	37	2.0	3	0.8	5842	15.5	10550	29	0.3
56-	43.6772-	106.3250-	2-	97-	0-	W08070	65320	-0.08	524	5279	72	-37	9.5	63	5.1	4	1.2	12810	7.4	16360	37	0.4
56-	43.6644-	106.3561-	2-	15-	0-	W08071	41470	-0.07	525	36460	48	-81	7.7	41	3.2	2	1.0	13110	8.6	14260	30	0.3
56-	43.6608-	106.3550-	2-	15-	0-	W08072	47850	-0.05	582	23200	54	-53	6.8	39	3.0	4	0.8	10610	8.5	14950	33	0.3
56-	43.7475-	106.2683-	2-	15-	0-	W08073	60430	-0.05	723	15310	62	-49	8.4	47	4.4	4	1.2	14870	6.9	17540	34	0.3
56-	43.6488-	106.3252-	2-	97-	0-	W08074	68510	-0.08	473	22170	83	-51	10.5	54	5.0	4	1.2	16140	4.6	19280	37	0.4
56-	43.6522-	106.3127-	2-	14-	0-	W08075	86960	-0.10	421	2875	58	-41	8.4	62	6.3	3	1.0	11930	4.0	14500	33	-0.2
56-	43.8008-	106.4277-	2-	97-	0-	W08078	55110	-0.05	569	4909	47	-50	6.9	39	3.1	4	0.9	10690	6.9	15750	30	0.3
56-	43.8055-	106.4738-	2-	14-	0-	W08079	47570	-0.05	581	6214	51	-45	7.7	43	3.3	4	0.9	10230	8.4	15290	32	0.4
56-	43.7894-	106.4488-	2-	97-	0-	W08080	55610	-0.07	502	4588	73	-56	9.5	62	4.0	4	1.3	14050	7.7	17440	33	0.5
56-	43.8458-	106.3966-	2-	14-	0-	W08081	39540	-0.06	464	13970	39	-57	5.9	28	2.2	3	0.8	8071	8.0	13350	23	0.2
56-	43.8722-	106.4294-	2-	15-	0-	W08082	49360	-0.05	540	14880	40	-49	6.7	37	2.8	3	0.9	10480	6.6	18010	20	0.3
56-	43.8613-	106.6644-	2-	11-	0-	W08083	46540	-0.06	550	25490	71	74	8.7	41	3.5	4	1.1	12140	9.2	15650	36	0.4
56-	43.8611-	106.6622-	2-	14-	0-	W08084	41320	-0.06	495	30620	61	-50	7.2	47	3.0	4	0.9	11470	8.3	14840	34	0.4
56-	43.9494-	106.7100-	2-	15-	0-	W08087	45720	-0.07	511	23130	40	-70	7.2	40	2.7	2	0.9	10870	6.2	13480	27	0.2
56-	43.8877-	106.6666-	2-	15-	0-	W08089	50670	-0.05	353	6650	59	-40	5.1	54	1.4	4	0.9	9033	11.0	13130	35	0.3
56-	43.9472-	106.6844-	2-	14-	0-	W08092	45510	-0.05	659	24100	54	-59	7.8	40	2.9	3	1.1	12040	8.6	12300	34	0.3
56-	43.9725-	106.6927-	2-	15-	0-	W08093	44950	-0.07	683	27830	47	-79	7.5	44	2.3	2	0.7	11910	7.0	13300	31	0.2
56-	43.9222-	106.6450-	2-	14-	0-	W08094	62830	-0.07	625	7651	78	-40	10.2	58	3.9	5	1.1	14770	7.7	16380	36	0.5
56-	43.9461-	106.6016-	2-	14-	0-	W08095	37650	-0.04	645	21160	62	1731	4.4	42	2.0	4	0.9	7877	16.0	13470	35	0.4
56-	43.9444-	106.5850-	2-	15-	0-	W08096	51090	-0.06	785	3785	62	-33	8.5	49	3.6	4	1.2	14670	13.3	14660	34	0.4
56-	43.9769-	106.5377-	2-	15-	0-	W08097	65400	-0.08	580	5539	79	-37	10.8	65	5.4	4	1.2	17500	7.0	16730	37	0.5
56-	43.9061-	106.5122-	2-	97-	0-	W08099	77070	-0.10	415	4284	60	-42	9.1	59	5.5	3	1.0	15670	4.1	17950	43	0.3
56-	43.9672-	106.5261-	2-	97-	0-	W08101	63750	-0.06	690	3519	64	47	8.3	51	3.9	4	0.9	13110	7.0	17730	29	0.4
56-	43.9805-	106.5600-	2-	15-	0-	W08102	70140	-0.07	694	5484	68	-36	11.1	61	6.0	5	1.2	16500	5.7	18560	39	0.3
56-	43.9927-	106.5750-	2-	15-	0-	W08103	49820	-0.07	579	7318	64	42	10.4	56	3.2	4	1.1	13540	8.8	15620	35	0.4
56-	43.9916-	106.5966-	2-	14-	0-	W08104	46460	-0.07	377	3110	46	-35	6.5	33	2.4	3	1.0	9600	9.3	15580	26	0.4
56-	43.8891-	106.5438-	2-	15-	0-	W08105	49420	-0.05	498	3790	45	-30	6.0	41	2.8	4	0.8	9430	6.7	16350	28	0.3
56-	43.8638-	106.5400-	2-	14-	0-	W08107	25800	-0.04	436	2103	37	-27	4.6	27	1.5	3	0.7	5775	10.1	11670	21	0.3
56-	43.8950-	106.5666-	2-	97-	0-	W08109	61060	-0.07	465	3907	74	-35	9.8	67	4.0	4	1.1	11690	7.2	15210	36	0.4
56-	43.9588-	106.6505-	2-	15-	0-	W08110	38970	-0.06	568	4967	43	-33	6.7	29	2.7	3	1.0	12230	7.1	12570	23	0.2
56-	43.9883-	106.6477-	2-	15-	0-	W08111	53420	-0.05	419	5712	43	-30	6.7	40	3.2	3	0.7	9054	4.3	15630	26	0.3
56-	43.5455-	106.5338-	2-	15-	0-	W08112	45760	-0.05	715	6887	64	214	6.5	36	3.6	4	1.1	11620	15.1	12770	38	0.4
56-	43.5444-	106.5344-	2-	15-	0-	W08113	43290	-0.06	664	13020	66	124	6.8	50	3.2	4	1.1	10750	15.1	14510	35	0.4
56-	43.5944-	106.5061-	2-	14-	0-	W08115	70600	-0.09	730	23350	56	508	7.8	71	5.1	3	1.1	16540	3.8	18780	34	0.4
56-	43.5891-	106.4822-	2-	97-	0-	W08116	75130	-0.07	938	18270	51	-54	9.1	77	5.7	4	1.0	16090	3.8	19470	32	0.3
56-	43.5400-	106.4661-	2-	14-	0-	W08117	48000	-0.05	643	13560	60	-52	6.5	43	3.4	4	1.0	11430	9.4	15270	32	0.3
56-	43.5005-	106.4488-	2-	97-	0-	W08118	75110	-0.08	779	15430	80	311	11.4	89	7.0	4	1.3	19790	6.3	17640	41	0.4
56-	43.5216-	106.4244-	2-	15-	0-	W08119	42450	-0.07	1660	18450	45	-62	12.0	34	3.6	3	0.8	22610	3.3	12180	24	0.3
56-	43.5316-	106.4200-	2-	14-	0-	W08121	63940	-0.06	845	16590	47	124	8.6	61	5.1	4	1.0	15290	4.0	16350	30	0.3
56-	43.5480-	106.4086-	2-	15-	0-	W08122	43960	-0.05	1107	23820	55	-57	8.8	44	3.3	4	1.2	16590	8.6	12530	34	0.3
56-	43.5666-	106.3800-	2-	15-	0-	W08124	68260	-0.06	616	26460	100	-88	9.1	57	3.0	4	1.4	20540	12.6	13550	48	0.5
56-	43.5644-	106.3588-	2-	15-	0-	W08125	32770	-0.05	633	18870	47	2404	5.0	32	1.8	2	1.0	8051	8.4	11570	30	0.3
56-	43.5100-	106.3583-	2-	97-	0-	W08127	42700	-0.04	433	36130	42	95	5.5	36	2.6	3	0.7	8720	6.6	14800	26	0.3
56-	43.5438-	106.3288-	2-	15-	0-	W08128	37750	-0.04	721	26080	68	811	6.2	45	2.7	5	1.1	9581	16.3	12830	38	0.4
56-	43.7697-	106.6052-	2-	97-	0-	W08129	38420	-0.05	523	23540	88	-56	7.0	52	2.1	4	1.1	11360	20.6	12020	42	0.5

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	U.S. SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)														
							Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	43.7322-	106.3122-	2-	14-		0-W08061	10080	219	3252	35	-1	3.7	2.9	-182		-1	6.2	2788	58	2.0	56	0.452
56-	43.6872-	106.2750-	2-	15-		0-W08063	6044	392	1319	27	-1	5.6	5.2	-195	-1	-1	15.5	5339	65	4.4	78	0.400
56-	43.6880-	106.2833-	2-	15-		0-W08064	3180	262	631	27	-1	3.8	6.2	-181	-1	-1	9.6	3346	43	3.4	93	0.396
56-	43.6827-	106.2900-	2-	14-		0-W08066	8164	178	1190	-23	-2	6.0	2.8	-203	-1	-1	8.2	3300	77	3.3	128	0.415
56-	43.6650-	106.3055-	2-	15-		0-W08067	3426	93	526	21	-1	2.5	3.0	-111			5.8	2867	36	2.8	-15	0.500
56-	43.6600-	106.3038-	2-	15-		0-W08068	3717	75	600	23	-1	3.7	3.0	-108		-1	6.7	2871	41	2.5	40	0.448
56-	43.6772-	106.3250-	2-	97-		0-W08070	11460	154	1091	54	-2	8.3	5.2	-217	-1	-1	11.0	3257	97	3.2	139	0.300
56-	43.6644-	106.3561-	2-	15-		0-W08071	12580	1079	3041	-23	-2	5.1	2.6	-444	-1	-1	7.1	2411	57	2.7	-36	0.606
56-	43.6608-	106.3550-	2-	15-		0-W08072	15980	454	3471	36	-1	5.0	3.4	-259	-1	-1	9.2	2993	62	2.5	58	0.446
56-	43.7475-	106.2683-	2-	15-		0-W08073	16880	298	4353	52	-2	7.4	4.0	-205	-1	-1	8.8	3279	96	2.4	-57	0.625
56-	43.6488-	106.3252-	2-	97-		0-W08074	23700	296	2561	72	-2	8.4	5.3	-264	-1	-1	11.0	3232	82	3.6	121	0.318
56-	43.6522-	106.3127-	2-	14-		0-W08075	8834	83	787	-30	-3	8.8	4.0	-214	-1	-1	11.1	4048	95	-2.3	146	0.441
56-	43.8008-	106.4277-	2-	97-		0-W08078	14150	345	3489	47	-2	5.9	3.4	-236	-1	-1	7.2	3479	89	2.5	53	0.389
56-	43.8055-	106.4738-	2-	14-		0-W08079	11690	186	3930	42	-2	5.7	3.6	-184	-1	-1	8.5	3003	68	2.6	-49	0.318
56-	43.7894-	106.4488-	2-	97-		0-W08080	13450	248	3858	58	-2	7.4	5.4	-245	-1	-1	10.7	3426	86	4.0	-14	0.271
56-	43.8458-	106.3966-	2-	14-		0-W08081	9734	244	3996	29	-2	4.4	3.0	-232	-1	-1	5.9	2533	57	-1.9	-29	0.441
56-	43.8722-	106.4294-	2-	15-		0-W08082	14540	275	3906	33	-1	5.1	3.5	-206	-1	-1	7.1	3362	72	2.6	62	0.366
56-	43.8613-	106.6644-	2-	11-		0-W08083	15830	417	2512	45	-2	5.4	5.1	-246	-1	-1	9.0	3193	55	3.3	94	0.533
56-	43.8611-	106.6622-	2-	14-		0-W08084	16100	407	1973	42	-2	4.7	5.4	-265	-1	-1	10.2	2563	49	3.1	57	0.373
56-	43.9494-	106.7100-	2-	15-		0-W08087	18170	304	5453	-24	-2	5.8	1.5	-275	-1	-1	8.3	2761	78	-2.1	-40	0.325
56-	43.8877-	106.6666-	2-	15-		0-W08089	12720	158	2800	24	-2	5.0	3.9	-177	-1	-1	8.9	3986	58	3.2	-54	0.292
56-	43.9472-	106.6844-	2-	14-		0-W08092	22840	307	6106	49	-2	5.8	3.9	-225	-1	-1	9.0	2752	78	3.2	-58	0.344
56-	43.9725-	106.6927-	2-	15-		0-W08093	18020	814	4477	-24	-2	5.7	2.8	-400	-1	-1	7.5	1937	84	2.7	-38	0.427
56-	43.9727-	106.6450-	2-	14-		0-W08094	10530	207	1237	62	-2	7.8	5.5	-233	-1	-1	10.7	3499	91	3.2	112	0.346
56-	43.9461-	106.6016-	2-	14-		0-W08095	18390	223	9439	29	-1	3.8	4.2	-213		-1	9.3	3305	53	3.8	45	0.419
56-	43.9444-	106.5850-	2-	15-		0-W08096	10800	267	940	48	-2	7.0	4.4	-199	-1	-1	9.6	3664	82	3.2	77	0.375
56-	43.9269-	106.5377-	2-	15-		0-W08097	14150	253	999	46	-2	9.2	6.0	-249	-1	-1	11.9	3681	109	3.2	115	0.294
56-	43.9061-	106.5122-	2-	97-		0-W08099	15560	182	1110	-34	-3	9.3	3.4	-257	-2	-1	8.9	3804	120	3.6	168	0.404
56-	43.9672-	106.5761-	2-	97-		0-W08101	12170	286	1006	43	-2	6.9	3.9	-215	-1	-1	8.8	3467	99	3.1	75	0.420
56-	43.9805-	106.5600-	2-	15-		0-W08102	15590	223	1149	58	-2	9.4	4.7	-208	-1	-1	10.2	3648	126	4.4	129	0.324
56-	43.9927-	106.5750-	2-	15-		0-W08103	10800	226	1253	55	-2	6.9	4.6	-214	-1	-1	9.5	2950	80	2.7	89	0.337
56-	43.9916-	106.5966-	2-	14-		0-W08104	7855	117	1075	-23	-2	6.1	2.9	-186	-1	-1	6.2	3246	70	2.1	-37	0.500
56-	43.8891-	106.5438-	2-	15-		0-W08105	8885	178	1148	37	-2	5.4	3.1	-171	-1	-1	6.7	3257	74	1.8	54	0.433
56-	43.8638-	106.5400-	2-	14-		0-W08107	4185	92	1229	34	-1	3.0	2.2	-120			5.5	2252	40	1.8	37	0.345
56-	43.8950-	106.5666-	2-	97-		0-W08109	11470	118	947	59	-2	8.3	5.7	-191	-1	-1	10.0	3885	92	3.8	-28	0.360
56-	43.9588-	106.6505-	2-	15-		0-W08110	7896	227	738	-21	-2	4.6	2.2	-209	-1	-1	6.3	2586	65	-1.5	-34	0.460
56-	43.9883-	106.6477-	2-	15-		0-W08111	12410	172	1097	29	-1	5.6	3.1	-168	-1	-1	7.6	3370	79	2.7	37	0.368
56-	43.5455-	106.5338-	2-	15-		0-W08112	9795	322	7227	38	-2	4.9	4.5	-218	-1	-1	11.5	2322	52	3.4	80	0.435
56-	43.5444-	106.5344-	2-	15-		0-W08113	11170	97	5653	46	-2	5.1	4.7	-184	-1	-1	10.9	3246	77	3.6	57	0.312
56-	43.5844-	106.5061-	2-	14-		0-W08115	18810	187	4587	-29	-3	9.3	3.2	-253	-1	-1	8.9	3394	180	2.9	-43	0.438
56-	43.5891-	106.4822-	2-	97-		0-W08116	26350	238	4284	61	-2	9.4	3.6	-235	-1	-1	9.1	4336	212	2.4	72	0.385
56-	43.5400-	106.4661-	2-	14-		0-W08117	13820	116	5861	48	-2	5.9	3.7	259	-1	-1	9.4	3136	91	2.3	62	0.351
56-	43.5005-	106.4488-	2-	97-		0-W08118	27680	225	10660	55	-3	11.2	5.3	-286	-1	-1	10.7	3890	202	3.6	-100	0.346
56-	43.5216-	106.4244-	2-	15-		0-W08119	22360	443	4465	-25	-2	6.5	2.5	-283	-1	-1	6.4	2303	129	-1.6	133	0.406
56-	43.5316-	106.4200-	2-	14-		0-W08121	7579	190	9255	51	-2	8.0	3.6	-228	-1	-1	7.6	4136	160	2.7	86	0.421
56-	43.5480-	106.4086-	2-	15-		0-W08122	21950	287	6774	29	-2	6.1	4.1	-210	-1	-1	8.1	2813	97	2.7	99	0.358
56-	43.5666-	106.3800-	2-	15-		0-W08124	16100	309	14980	46	-1	7.6	6.3	356	1	-1	12.3	3085	80	4.6	-56	0.268
56-	43.5644-	106.3588-	2-	15-		0-W08125	14930	190	9020	-17	-2	3.3	2.5	-234	-1	-1	6.0	2895	44	2.9	-27	0.450
56-	43.5100-	106.3583-	2-	97-		0-W08127	29500	290	7081	43	-1	4.1	3.2	-209		-1	6.9	2725	46	2.6	41	0.406
56-	43.5438-	106.3288-	2-	15-		0-W08128	19660	267	7419	33	-1	4.4	4.4	-202	-1	-1	9.9	2997	48	3.6	69	0.364
56-	43.7697-	106.6052-	2-	97-		0-W08129	16920	426	2977	47	-2	5.0	7.0	-253	-1	-1	13.5	3206	51	4.5	69	0.289

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.8175-106.5938-2-97-						0-W08130-05/04/76-14-			24-		-	-	-	-	-	12-1-7-5-6-	-	-	-	-4-2-2-2-	-1-	-	-	-	-	3.70
56-43.8769-106.6116-2-97-						0-W08131-05/04/76-15-			25-		-	-	-	-	-	12-1-1-4-6-	-	-	-	-4-2-2-2-	-1-	-	-	-	-	3.00
56-43.8516-106.6066-2-97-						0-W08132-05/04/76-15-			22-		-	-	-	-	-	9-1-1-5-6-	-	-	-	-4-3-2-2-	-1-	-	-	-	-	3.30
56-43.8594-106.7033-2-97-						0-W08133-05/04/76-16-			21-		-C-	-	-	-	-	6-1-1-5-6-	-	-	-	-4-3-2-2-	-1-	-	-	-	-	3.20
56-43.7233-106.5516-2-15-						0-W08134-05/05/76- 9-			15-		-	-	-	-	-	9-1-7-4-6-	-	-	-	-4-3-2-3-	-1-	-	-	-	-	2.90
56-43.6994-106.5338-2-15-						0-W08135-05/05/76-10-			13-		-	-	-	-	-	14-1-1-4-6-	-	-	-	-4-3-2-3-	-1-	-	-	-	-	2.80
56-43.6922-106.5150-2-15-						0-W08136-05/05/76-10-			13-		-	-	-	-	-	21-1-1-1-6-	-	-	-	-4-2-3-3-	-1-	-	-	-	-	4.00
56-43.7597-106.4850-2-15-						0-W08137-05/05/76-11-			14-		-	-	-	-	-	9-1-2-5-7-	-	-	-	-4-3-2-3-	-1-	-	-	-	-	3.30
56-43.8452-106.5291-2-97-						0-W08138-05/05/76-13-			12-		-	-	-	-	-	6-1-1-5-6-	-	-	-	-4-3-1-3-	-1-	-	-	-	-	3.50
56-43.9641-106.5083-2-97-						0-W08139-05/05/76-14-			15-		-	-	-	-	-	16-1-1-5-6-	-	-	-	-4-3-2-3-	-1-	-	-	-	-	2.80
56-43.7069-106.3866-2-97-						0-W08140-05/05/76-15-			15-		-	-	-	-	-	14-1-1-4-6-	-	-	-	-4-3-2-3-	-1-	-	-	-	-	2.80
56-43.7233-106.4211-2-97-						0-W08141-05/05/76-16-			17-		-	-	-	-	-	12-1-1-5-6-	-	-	-	-4-3-3-2-	-1-	-	-	-	-	3.60
56-43.6980-106.4497-2-15-						0-W08142-05/05/76-17-			20-		-	-	-	-	-	6-1-6-4-6-	-	-	-	-4-3-2-2-	-1-	-	-	-	-	4.60
56-43.6944-106.4875-2-15-						0-W08143-05/05/76-18-			17-		-	-	-	-	-	6-1-6-4-6-	-	-	-	-4-3-2-2-	-1-	-	-	-	-	3.80
56-43.7202-106.6433-2-15-						0-W08144-06/05/76- 8-			10-		-	-	-	-	-	4-1-1-5-7-	-	-	-	-4-2-2-2-	-1-	-	-	-	-	3.30
56-43.7350-106.6869-2-97-						0-W08145-06/05/76- 9-			14-		-	-	-	-	-	14-1-7-5-7-	-	-	-	-4-3-3-2-	-1-	-	-	-	-	4.80
56-43.7702-106.7080-2-12-						0-W08146-06/05/76- 9-			10-12.0	-C-	-	-	8.8	-11000-		10-1-7-5-7-2-2-2-2-4-2-2-3-					-1-	-	-	-	-	3.60
56-43.7950-106.7227-2-97-						0-W08147-05/06/76-10-			13-		-	-	-	-	-	3-1-2-5-6-	-	-	-	-4-3-2-2-	-1-	-	-	-	-	3.50
56-43.6572-106.7294-2-15-						0-W08148-05/06/76-13-			16-		-	-	-	-	-	16-1-7-5-8-	-	-	-	-4-2-3-3-	-1-	-	-	-	-	4.70
56-43.6486-106.7488-2-97-						0-W08149-05/06/76-13-			18-		-	-	-	-	-	14-1-7-5-8-	-	-	-	-4-1-4-3-	-1-	-	-	-	-	5.00
56-43.6655-106.7044-2-97-						0-W08150-05/06/76-14-			17-		-	-	-	-	-	8-1-7-5-7-	-	-	-	-4-2-3-3-	-1-	-	-	-	-	4.30
56-43.6622-106.6927-2-97-						0-W08151-05/06/76-15-			17-		-	-	-	-	-	16-1-7-4-7-	-	-	-	-4-1-3-3-	-1-	-	-	-	-	4.50
56-43.6475-106.7008-2-97-						0-W08152-05/06/76-15-			17-		-	-	-	-	-	12-1-7-4-7-	-	-	-	-4-2-4-3-	-1-	-	-	-	-	4.00
56-43.6838-106.7438-2-15-						0-W08153-05/06/76-16-			15-		-	-	-	-	-	12-1-7-5-6-	-	-	-	-4-3-2-3-	-1-	-	-	-	-	3.70
56-43.7186-106.7288-2-97-						0-W08154-05/06/76-17-			13-		-C-	-	-	-	-	22-1-7-5-	-	-	-	-4-1-3-3-	-2-	-	-	-	-	5.60
56-43.6316-106.6338-2-15-						0-W08155-05/07/76-12-			18-		-	-	-	-	-	9-1-7-4-8-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	5.20
56-43.6169-106.6438-2-15-						0-W08156-05/07/76-15-			18-		-C-	-	-	-	-	13-1-7-4-8-	-	-	-	-4-2-3-1-	-1-	-	-	-	-	6.50
56-43.5150-106.7086-2-12-						0-W08158-05/07/76-18-			20-21.5	-	-	-	6.9	-31500-		12-1-7-4-7-3-3-1-2-4-2-3-1-					-1-	-	-	-	-	3.90
56-43.5361-106.6800-2-14-						0-W08159-05/07/76-19-			17-14.0	-	-	-	6.6	-24500-		9-1-7-5-6-	-	-	-	-4-2-1-1-	-1-	-	-	-	-	3.70
56-43.6766-106.6283-2-14-						0-W08161-05/08/76- 8-			12-17.5	-	-	-	6.5	-37500-		9-1-7-5-6-2-	-1-			-4-3-3-3-	-1-	-	-	-	-	3.60
56-43.6916-106.5994-2-14-						0-W08162-05/08/76- 9-			19-11.5	-C-	-	-	6.5	-38000-		11-1-6-5-6-1-2-1-				-4-3-3-1-	-1-	-	-	-	-	3.70
56-43.6961-106.6227-2-97-						0-W08163-05/08/76- 9-			17-	-C-	-	-	-	-	-	14-1-6-4-6-	-	-	-	-4-3-2-1-	-1-	-	-	-	-	3.30
56-43.6344-106.6019-2-12-						0-W08164-05/08/76-11-			19-19.0	-	-	-	6.8	-33000-		11-1-7-4-6-2-3-1-2-4-3-3-1-					-1-	-	-	-	-	4.20
56-43.6652-107.0000-2-14-						0-W08165-07/04/76-10-			27-20.0	-	-	-	7.4	-400-		8-1-7-5-6-2-2-4-				-4-3-3-1-	-1-	-	-	-	-	2.10
56-43.6444-107.0530-2-11-						0-W08167-07/04/76-10-			28-10.0	-	-	-	7.4	-250-		16-1-7-5-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	3.00
56-43.6594-107.0544-2-11-						0-W08168-07/04/76-11-			28-11.0	-	-	-	6.8	-250-		9-1-7-	-6-2-2-1-			-4-3-3-1-	-1-	-	-	-	-	3.40
56-43.6638-107.0680-2-12-						0-W08169-07/04/76-11-			28-15.0	-	-	-	7.2	-250-		11-1-7-5-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.50
56-43.6647-107.0688-2-12-						0-W08170-07/04/76-11-			28-11.0	-	-	-	6.8	-300-		11-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.80
56-43.6877-107.1211-2-11-						0-W08171-07/04/76-12-			28-15.0	-	-	-	6.8	-200-		12-1-7-5-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.40
56-43.6661-107.1094-2-11-						0-W08172-07/04/76-12-			28-15.0	-	-	-	7.2	-300-		22-1-7-5-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.50
56-43.6766-107.0827-2-11-						0-W08173-07/04/76-12-			28-19.0	-	-	-	7.2	-150-		4-1-7-5-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.30
56-43.6544-107.0672-2-11-						0-W08174-07/04/76-12-			29-19.0	-	-	-	6.8	-300-		6-1-7-5-6-2-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.60
56-43.6288-107.0588-2-11-						0-W08175-07/04/76-10-			30-10.0	-	-	-	6.8	-200-		11-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	2.70
56-43.6100-107.0666-2-11-						0-W08177-07/04/76-14-			31-11.0	-	-	-	6.8	-450-		12-1-7-	-	-3-3-1-		-4-3-3-1-	-1-	-	-	-	-	3.10
56-43.6227-107.0794-2-11-						0-W08178-07/04/76-14-			31- 9.0	-	-	-	7.2	-200-		12-1-7-	-	-3-3-1-		-4-3-3-1-	-1-	-	-	-	-	2.90
56-43.6222-107.0622-2-11-						0-W08179-07/04/76-15-			31-10.0	-	-	-	6.8	-200-		11-1-7-5-2-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.10
56-43.6383-107.0850-2-11-						0-W08180-07/04/76-16-			32-18.0	-	-	-	7.6	-150-		16-1-7-5-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	3.00
56-43.6352-107.1150-2-11-						0-W08181-07/04/76-14-			32-15.0	-	-	-	7.2	-200-		12-1-7-5-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.70
56-43.6722-107.0200-2-14-						0-W08182-07/04/76-18-			32-13.0	-	-	-	6.3	-350-		8-1-7-5-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.20
56-43.6798-107.0338-2-11-						0-W08183-07/04/76-18-			32-11.0	-	-	-	6.8	-300-		8-1-7-5-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.60
56-43.7056-106.7777-2-14-						0-W08184-07/05/76-10-			28-25.0	-	-	-	7.8	-2600-		11-1-7-5-6-2-3-2-				-4-3-3-1-	-1-	-	-	-	-	7.20

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.8175-106.5938-2-97-						0-W08130	-5	-5	-5	26	-20	-15	18	-10	-15	2	40
56-43.8269-106.6116-2-97-						0-W08131	-5	-5	-5	20	-20	-15	12	-10	-15	2	30
56-43.8516-106.6066-2-97-						0-W08132	-5	-5	-5	23	-20	-15	15	-10	-15	2	32
56-43.8594-106.7033-2-97-						0-W08133	-5	-5	-5	24	-20	25	14	-10	-15	2	38
56-43.7233-106.5516-2-15-						0-W08134	-5	-5	-5	17	-20	-15	7	-10	-15	2	22
56-43.6994-106.5338-2-15-						0-W08135	-5	-5	-5	19	-20	-15	12	-10	-15	2	28
56-43.6922-106.5150-2-15-						0-W08136	-5	-5	-5	21	-20	-15	16	-10	-15	2	43
56-43.7597-106.4850-2-15-						0-W08137	-5	-5	-5	37	-20	-15	7	-10	-15	2	42
56-43.8452-106.5291-2-97-						0-W08138	-5	-5	-5	21	-20	24	16	-10	16	2	57
56-43.8641-106.5083-2-97-						0-W08139	-5	-5	-5	16	-20	16	11	-10	-15	2	34
56-43.7069-106.3866-2-97-						0-W08140	-5	-5	-5	18	-20	21	11	-10	-15	2	41
56-43.7233-106.4211-2-97-						0-W08141	-5	6	-5	48	-20	-15	10	-10	-15	2	41
56-43.6980-106.4497-2-15-						0-W08142	-5	-5	-5	21	-20	16	9	-10	-15	1	19
56-43.6944-106.4875-2-15-						0-W08143	-5	-5	-5	18	-20	-15	9	-10	-15	1	24
56-43.7202-106.6433-2-15-						0-W08144	-5	-5	-5	29	-20	25	15	-10	16	3	100
56-43.7350-106.6869-2-97-						0-W08145	-5	-5	-5	26	-20	-15	22	-10	-15	2	72
56-43.7702-106.7080-2-12-						0-W08146	-5	-5	-5	31	-20	-15	-5	-10	-15	1	33
56-43.7950-106.7227-2-97-						0-W08147	-5	-5	-5	28	-20	-15	18	-10	-15	3	94
56-43.6572-106.7294-2-15-						0-W08148	-5	-5	-5	25	-20	-15	15	-10	-15	2	44
56-43.6486-106.7488-2-97-						0-W08149	-5	-5	-5	22	-20	-15	-5	-10	-15	2	40
56-43.6655-106.7044-2-97-						0-W08150	-5	5	-5	17	-20	18	9	-10	-15	2	33
56-43.6622-106.6927-2-97-						0-W08151	-5	-5	-5	-10	-20	-15	14	-10	-15	2	30
56-43.6475-106.7008-2-97-						0-W08152	-5	-5	-5	18	-20	-15	7	-10	-15	2	34
56-43.6838-106.7438-2-15-						0-W08153	-5	5	-5	19	-20	-15	9	-10	-15	2	36
56-43.7186-106.7288-2-97-						0-W08154	-5	-5	-5	21	-20	-15	9	-10	-15	2	34
56-43.6316-106.6338-2-15-						0-W08155	-5	-5	-5	12	-20	-15	-5	-10	-15	2	27
56-43.6169-106.6438-2-15-						0-W08156	-5	6	-5	-10	-20	-15	-5	-10	-15	1	26
56-43.5150-106.7086-2-12-						0-W08158	-5	-5	-5	13	-20	-15	-5	-10	-15	1	20
56-43.5361-106.6800-2-14-						0-W08159	-5	-5	-5	27	-20	24	10	-10	-15	2	40
56-43.6766-106.6283-2-14-						0-W08161	-5	5	-5	25	-20	24	9	-10	-15	2	123
56-43.6916-106.5994-2-14-						0-W08162	-5	-5	-5	28	-20	16	-5	-10	-15	3	79
56-43.6961-106.6227-2-97-						0-W08163	-5	-5	-5	30	-20	28	13	-10	-15	2	83
56-43.6344-106.6019-2-12-						0-W08164	-5	-5	-5	14	-20	-15	-5	-10	-15	1	27
56-43.6652-107.0000-2-14-						0-W08165	-5	-5	-5	17	-20	-15	14	-10	-15	2	40
56-43.6444-107.0530-2-11-						0-W08167	-5	-5	-5	15	-20	-15	13	-10	-15	1	28
56-43.6594-107.0544-2-11-						0-W08168	-5	-5	-5	18	-20	15	14	-10	-15	2	33
56-43.6638-107.0680-2-12-						0-W08169	-5	-5	-5	20	-20	-15	-5	-10	-15	2	55
56-43.6647-107.0688-2-12-						0-W08170	-5	7	-5	17	-20	24	8	-10	-15	2	34
56-43.6877-107.1211-2-11-						0-W08171	-5	7	-5	28	-20	-15	-5	-10	-15	2	33
56-43.6661-107.1094-2-11-						0-W08172	-5	-5	-5	17	-20	-15	5	-10	-15	2	36
56-43.6766-107.0827-2-11-						0-W08173	-5	-5	-5	24	-20	42	6	-10	-15	2	40
56-43.6544-107.0672-2-11-						0-W08174	-5	-5	-5	12	-20	27	9	-10	-15	2	41
56-43.6288-107.0588-2-11-						0-W08175	-5	5	-5	37	-20	-15	7	-10	-15	2	32
56-43.6100-107.0666-2-11-						0-W08177	-5	-5	-5	25	-20	-15	19	-10	15	3	44
56-43.6227-107.0794-2-11-						0-W08178	-5	-5	-5	18	-20	29	18	12	-15	2	30
56-43.6222-107.0622-2-11-						0-W08179	-5	-5	-5	23	-20	-15	-5	-10	-15	2	36
56-43.6383-107.0850-2-11-						0-W08180	-5	-5	-5	26	-20	17	8	-10	-15	2	41
56-43.6352-107.1150-2-11-						0-W08181	-5	-5	-5	21	-20	-15	7	-10	-15	1	40
56-43.6722-107.0200-2-14-						0-W08182	-5	-5	-5	26	-20	-15	7	-10	-15	1	30
56-43.6788-107.0338-2-11-						0-W08183	-5	-5	-5	17	-20	15	9	-10	-15	2	37
56-43.7055-106.7777-2-14-						0-W08184	-5	-5	-5	33	-20	38	13	-10	-15	3	47

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.8175-	106.5938-	2-	97-	0-	W08130	64930	-0.08	466	-670	56	-34	6.1	45	3.6	3	1.1	8569	6.2	15840	31	0.4
56-	43.8260-	106.6116-	2-	97-	0-	W08131	54530	-0.05	588	7909	54	-40	6.6	43	2.8	4	0.9	10470	8.0	16300	31	0.3
56-	43.8516-	106.6066-	2-	97-	0-	W08132	57640	-0.05	565	3721	46	-35	8.3	35	3.8	4	1.0	9717	6.6	14760	27	0.3
56-	43.8594-	106.7033-	2-	97-	0-	W08133	53020	-0.06	568	7043	51	-36	7.4	41	3.4	4	1.1	11380	6.7	17360	30	0.4
56-	43.7233-	106.5516-	2-	15-	0-	W08134	44190	-0.03	539	7637	47	-40	5.8	38	2.5	3	0.8	8697	7.9	18090	28	0.2
56-	43.6994-	106.5338-	2-	15-	0-	W08135	45040	-0.04	707	9843	46	-38	7.0	38	3.2	3	0.9	12290	5.4	14390	27	0.3
56-	43.6922-	106.5150-	2-	15-	0-	W08136	69120	-0.05	572	6934	58	-36	8.7	55	4.1	4	1.0	9687	4.7	17580	30	0.3
56-	43.7597-	106.4850-	2-	15-	0-	W08137	65640	-0.07	473	7100	54	-41	8.1	47	4.1	4	1.1	13260	5.1	18840	31	0.3
56-	43.8452-	106.5291-	2-	97-	0-	W08138	76300	-0.05	553	6132	62	-47	7.9	59	5.5	3	1.1	15990	6.0	19810	36	0.3
56-	43.8641-	106.5083-	2-	97-	0-	W08139	53690	-0.05	574	7819	56	-43	8.2	46	3.3	4	1.1	13450	7.3	16050	33	0.4
56-	43.7069-	106.3866-	2-	97-	0-	W08140	49900	-0.04	593	21400	50	-51	8.1	43	2.4	4	1.0	10150	7.3	16840	25	0.3
56-	43.7233-	106.4211-	2-	97-	0-	W08141	68740	-0.06	553	5755	50	-40	8.3	51	4.4	5	1.0	14100	5.0	17490	31	0.3
56-	43.6980-	106.4497-	2-	15-	0-	W08142	34040	-0.04	1267	7778	55	-45	6.5	39	1.8	3	1.2	11230	27.7	11700	30	0.5
56-	43.6944-	106.4875-	2-	15-	0-	W08143	45010	-0.04	548	2821	57	-24	6.2	46	2.9	4	1.0	10500	12.6	12010	35	0.3
56-	43.7202-	106.6433-	2-	15-	0-	W08144	79530	-0.06	786	20850	56	-67	11.1	68	5.8	4	1.2	16170	4.2	19900	32	0.3
56-	43.7350-	106.6869-	2-	97-	0-	W08145	82180	-0.07	464	12340	66	-72	7.6	36	5.6	5	1.0	18070	5.2	16570	45	0.3
56-	43.7702-	106.7080-	2-	12-	0-	W08146	34380	-0.03	772	28990	36	-63	5.7	30	2.1	3	0.8	8999	12.8	11320	23	0.4
56-	43.7950-	106.7227-	2-	97-	0-	W08147	73770	-0.06	784	22150	59	-63	10.6	62	6.5	4	1.3	19550	3.6	19510	36	0.3
56-	43.6572-	106.7294-	2-	15-	0-	W08148	77450	-0.06	469	8073	63	-59	7.9	50	5.2	5	1.0	14760	4.2	19870	40	0.4
56-	43.6486-	106.7488-	2-	97-	0-	W08149	54620	-0.06	624	5204	63	-57	5.4	34	3.5	5	1.0	9845	10.6	19950	36	0.3
56-	43.6655-	106.7044-	2-	97-	0-	W08150	61280	-0.04	574	8271	64	-78	5.6	32	4.0	4	0.9	10850	5.9	15880	37	0.3
56-	43.6622-	106.6927-	2-	97-	0-	W08151	46570	-0.04	792	8873	58	-60	4.9	21	2.6	4	1.2	7688	10.2	13180	35	0.4
56-	43.6475-	106.7008-	2-	97-	0-	W08152	55120	-0.05	655	15200	66	-60	6.4	30	3.1	4	1.2	10500	12.2	13400	32	0.4
56-	43.6838-	106.7438-	2-	15-	0-	W08153	42390	-0.06	558	4516	39	-65	6.6	30	3.4	3	0.7	6669	5.7	12900	21	0.3
56-	43.7186-	106.7288-	2-	97-	0-	W08154	55190	-0.05	741	6856	62	-80	8.3	33	4.1	4	1.0	10800	4.9	14410	34	0.3
56-	43.6316-	106.6338-	2-	15-	0-	W08155	41020	-0.04	663	7266	59	758	5.1	33	1.8	4	1.0	7362	33.6	13280	32	0.5
56-	43.6169-	106.6438-	2-	15-	0-	W08156	39950	-0.05	602	6595	77	-64	4.0	33	-1.2	5	1.5	9571	49.9	10830	42	0.6
56-	43.5150-	106.7086-	2-	12-	0-	W08158	39390	-0.03	1447	10850	48	-69	4.5	28	1.8	3	0.8	8179	17.4	14070	25	0.4
56-	43.5361-	106.6800-	2-	14-	0-	W08159	58290	-0.05	656	56420	56	-60	8.5	55	3.9	4	1.1	13160	6.5	14550	32	0.3
56-	43.6766-	106.6283-	2-	14-	0-	W08161	67830	-0.06	809	55630	49	-67	9.4	55	4.5	3	0.8	14280	2.9	16710	26	0.3
56-	43.6916-	106.5994-	2-	14-	0-	W08162	81640	-0.08	857	15220	53	-66	10.1	75	6.9	4	1.2	18200	3.1	21750	38	0.3
56-	43.6961-	106.6227-	2-	97-	0-	W08163	70520	-0.05	748	23140	57	-64	8.5	62	5.0	3	0.9	15960	3.7	22100	30	0.3
56-	43.6344-	106.6019-	2-	12-	0-	W08164	31730	-0.03	1140	9653	55	49	5.0	28	1.5	3	1.5	8518	27.9	10430	30	0.5
56-	43.6652-	107.0000-	2-	14-	0-	W08165	44310	-0.07	402	30930	57	-65	8.4	54	2.8	3	0.8	12990	5.5	12090	28	0.3
56-	43.6444-	107.0530-	2-	11-	0-	W08167	42720	-0.04	561	35440	47	-85	5.3	41	-1.0	3	0.9	7656	10.9	15380	29	0.3
56-	43.6594-	107.0544-	2-	11-	0-	W08168	63910	-0.05	602	28250	72	172	8.7	42	3.4	3	1.0	11800	7.5	15710	39	0.3
56-	43.6638-	107.0680-	2-	12-	0-	W08169	56070	-0.05	522	59140	57	-63	10.6	44	2.4	4	1.2	11580	6.6	34050	26	0.3
56-	43.6647-	107.0688-	2-	12-	0-	W08170	52020	-0.06	617	46030	59	-73	7.5	40	2.5	4	0.9	11890	8.0	26970	31	0.3
56-	43.6877-	107.1211-	2-	11-	0-	W08171	60660	-0.05	404	63820	64	-72	9.3	42	2.3	3	1.0	14980	4.8	30130	35	0.3
56-	43.6661-	107.1094-	2-	11-	0-	W08172	59040	-0.05	585	12350	73	-58	11.0	54	2.9	4	1.2	15700	8.6	33250	41	0.4
56-	43.6766-	107.0827-	2-	11-	0-	W08173	72660	-0.06	727	32290	78	-49	12.8	49	3.5	5	1.1	16370	4.7	39970	35	0.3
56-	43.6544-	107.0672-	2-	11-	0-	W08174	53520	-0.06	528	33940	57	-70	8.1	50	2.6	4	1.0	12580	7.0	26050	31	0.3
56-	43.6288-	107.0588-	2-	11-	0-	W08175	42370	-0.07	418	51310	48	-81	6.5	47	-1.4	2	0.6	8642	8.6	10100	27	0.3
56-	43.6100-	107.0666-	2-	11-	0-	W08177	67670	-0.05	732	31470	68	252	8.4	25	3.0	3	1.0	12660	4.7	16040	39	0.3
56-	43.6227-	107.0794-	2-	11-	0-	W08178	48920	-0.05	579	20980	59	-74	8.9	48	2.1	3	1.1	12640	11.2	14050	30	0.4
56-	43.6222-	107.0622-	2-	11-	0-	W08179	52100	-0.05	386	117100	51	-66	10.2	38	2.6	4	0.9	12420	3.7	29680	27	0.3
56-	43.6383-	107.0850-	2-	11-	0-	W08180	60120	-0.06	730	18340	60	-79	8.4	59	-1.7	5	1.0	13960	8.5	17800	32	0.3
56-	43.6352-	107.1150-	2-	11-	0-	W08181	54780	-0.05	707	22970	54	-82	8.8	45	2.2	3	1.0	13370	6.9	24080	30	0.3
56-	43.6722-	107.0200-	2-	14-	0-	W08182	33190	-0.04	349	13420	40	-52	6.4	35	2.3	2	0.8	7405	9.1	11530	19	0.3
56-	43.6788-	107.0338-	2-	11-	0-	W08183	41270	-0.05	404	7966	44	-57	8.3	47	3.2	3	0.9	8897	9.5	14900	23	0.3
56-	43.7055-	106.7777-	2-	14-	0-	W08184	65210	-0.07	447	6586	58	-98	12.3	45	5.8	5	0.9	18230	4.3	11930	30	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.8175-106.5938-2-97-						0-W08130	7784	82	982	-26	-3	7.4	1.8	-184	-1	-1	8.3	3511	88	-1.7	-39	0.446
56-43.8269-106.6116-2-97-						0-W08131	12480	265	2427	30	-2	5.3	3.3	-205	-1	-1	9.4	3284	74	2.6	61	0.319
56-43.8514-106.6066-2-97-						0-W08132	8282	184	1334	34	-2	5.6	4.0	-184	-1	-1	8.5	3674	88	2.5	54	0.388
56-43.8594-106.7033-2-97-						0-W08133	13760	172	1164	-24	-2	6.0	2.8	-201	-1	-1	7.2	3292	87	2.7	-33	0.444
56-43.7233-106.5516-2-15-						0-W08134	11680	213	1909	-12	-1	4.2	3.0	-199		-1	8.0	2758	52	2.1	43	0.363
56-43.6994-106.5338-2-15-						0-W08135	10560	274	1802	41	-1	5.3	3.4	-191	-1	-1	7.2	2429	60	2.0	-32	0.389
56-43.6922-106.5150-2-15-						0-W08136	11230	185	1119	44	-2	6.7	3.8	-188	-1	-1	9.0	3792	110	2.0	105	0.444
56-43.7597-106.4850-2-15-						0-W08137	13000	183	1275	-28	-2	7.6	2.8	-223	-1	-1	8.0	3742	107	3.5	-44	0.413
56-43.8452-106.5291-2-97-						0-W08138	19590	240	1648	66	-2	8.9	4.4	-256	-1	-1	9.6	4156	131	2.6	-47	0.365
56-43.8641-106.5083-2-97-						0-W08139	13680	248	2736	39	1	6.8	3.9	-198	-1	-1	9.0	3580	87	2.8	79	0.311
56-43.7069-106.3866-2-97-						0-W08140	15230	255	4590	27	-1	4.7	4.2	212	-1	-1	7.0	3086	72	2.0	-80	0.400
56-43.7233-106.4211-2-97-						0-W08141	14210	203	1602	-26	-2	7.7	3.9	-222	-1	-1	9.8	3513	109	-1.6	-86	0.367
56-43.6980-106.4497-2-15-						0-W08142	6872	497	1381	-13	-1	4.2	4.1	-275	-1	-1	8.9	3847	64	3.7	58	0.517
56-43.6944-106.4875-2-15-						0-W08143	6660	162	704	34	-1	5.5	3.8	-152	-1	1	8.9	3682	74	3.4	62	0.427
56-43.7202-106.6433-2-15-						0-W08144	31840	198	6812	50	-2	8.9	4.1	-243	-1	-1	8.4	4532	181	2.3	-36	0.393
56-43.7350-106.6869-2-97-						0-W08145	19480	206	6658	68	-2	8.8	4.0	-271	-1	-1	13.5	3287	86	3.8	-100	0.356
56-43.7702-106.7080-2-12-						0-W08146	11200	507	4500	-12	-1	4.0	3.0	-288		1	5.8	2142	40	2.7	41	0.621
56-43.7950-106.7227-2-97-						0-W08147	30140	286	5587	84	-2	10.4	4.5	-250	-1	-1	9.5	4028	182	3.1	123	0.368
56-43.6572-106.7294-2-15-						0-W08148	14160	230	5076	-21	-2	7.2	4.9	-223	-1	-1	14.0	3174	83	3.2	68	0.336
56-43.6486-106.7488-2-97-						0-W08149	6451	190	5336	63	-2	5.3	3.3	-214	-1	-1	9.9	2553	66	2.4	139	0.505
56-43.6655-106.7044-2-97-						0-W08150	10820	162	8529	45	-1	5.1	3.9	-252	-1	-1	10.7	2296	68	2.3	50	0.402
56-43.6622-106.6927-2-97-						0-W08151	6938	130	9483	23	-1	3.5	5.1	327	-1	-1	12.3	2486	36	3.2	-26	0.366
56-43.6475-106.7008-2-97-						0-W08152	11170	213	6915	32	-1	5.0	4.2	267	-1	-1	11.4	3330	67	3.6	99	0.351
56-43.6838-106.7438-2-15-						0-W08153	4690	208	5788	-24	-2	3.6	2.1	-245	-1	-1	7.5	2298	41	2.5	-35	0.493
56-43.7186-106.7288-2-97-						0-W08154	7856	253	11810	62	-1	5.0	4.3	-255	-1	-1	11.5	2083	54	3.3	53	0.487
56-43.6316-106.6338-2-15-						0-W08155	4782	194	9996	27	-1	3.5	4.4	312	-1	-1	9.7	5853	52	3.6	22	0.536
56-43.6169-106.6438-2-15-						0-W08156	7227	256	8634	-20	-1	4.7	3.8	-223	-1	-1	11.5	6922	57	5.6	-31	0.565
56-43.5150-106.7086-2-12-						0-W08158	5370	304	7235	25	-1	3.3	3.2	-254		-1	8.2	3551	46	2.6	36	0.476
56-43.5361-106.6800-2-14-						0-W08159	16780	174	5743	42	2	6.8	4.0	323	-1	-1	8.8	3142	171	2.7	87	0.420
56-43.6766-106.6283-2-14-						0-W08161	30050	261	5771	-21	-2	7.3	4.1	493	-1	-1	7.6	3481	180	2.1	141	0.474
56-43.6916-106.5994-2-14-						0-W08162	28010	188	4506	47	-3	11.1	2.7	-266	-2	-1	7.4	4611	213	-2.2	-51	0.500
56-43.6961-106.6227-2-97-						0-W08163	28120	245	4439	46	-1	8.3	3.7	-259	-1	-1	7.5	3372	175	3.2	91	0.440
56-43.6344-106.6019-2-12-						0-W08164	4140	203	7207	41	-1	3.7	3.7	-174	-1	-1	9.6	4145	43	3.2	60	0.438
56-43.6652-107.0000-2-14-						0-W08165	20120	329	3911	45	-2	6.2	5.0	-274	-1	-1	8.2	2482	57	2.5	-42	0.256
56-43.6444-107.0530-2-11-						0-W08167	28570	176	9942	35	-1	3.8	3.7	-269	-1	-1	7.3	3187	48	2.5	27	0.411
56-43.6594-107.0544-2-11-						0-W08168	25010	271	8516	41	-2	5.1	3.9	466	-1	-1	14.3	3062	45	1.9	-82	0.238
56-43.6638-107.0680-2-12-						0-W08169	21020	516	3555	57	-2	5.4	4.2	-305	-1	-1	9.2	2861	46	2.8	-32	0.272
56-43.6647-107.0688-2-12-						0-W08170	15990	471	4376	-26	-2	5.2	3.4	-322	-1	-1	7.6	3225	47	3.3	72	0.368
56-43.6877-107.1211-2-11-						0-W08171	18240	486	2655	50	-2	6.7	4.1	-361	-1	-1	9.7	3070	57	2.3	55	0.247
56-43.6661-107.1094-2-11-						0-W08172	13300	311	4448	48	-2	7.1	4.6	-255	-1	-1	10.8	3381	65	3.2	115	0.231
56-43.6766-107.0827-2-11-						0-W08173	22730	369	1509	77	-2	7.5	5.0	-266	-1	-1	11.9	3868	62	2.1	-38	0.193
56-43.6544-107.0672-2-11-						0-W08174	22850	294	5100	-24	-2	5.9	2.9	269	-1	-1	7.4	3010	53	-1.5	-41	0.351
56-43.6288-107.0588-2-11-						0-W08175	48610	230	7368	-23	-2	4.6	2.7	-275	-1	-1	8.6	2944	48	1.6	-37	0.314
56-43.6100-107.0666-2-11-						0-W08177	25820	633	8672	48	-1	4.6	4.1	-439	-1	-1	13.3	2583	38	3.6	55	0.233
56-43.6227-107.0794-2-11-						0-W08178	20110	353	8900	40	-1	5.8	4.1	-272	-1	-1	8.9	2962	59	3.5	-56	0.326
56-43.6222-107.0622-2-11-						0-W08179	17890	651	1966	47	-2	6.1	4.0	-319	-1	-1	7.6	2711	63	2.1	-41	0.276
56-43.6383-107.0850-2-11-						0-W08180	15750	356	8348	-28	-2	6.6	4.3	-300	-1	-1	8.9	3502	65	3.2	142	0.337
56-43.6352-107.1150-2-11-						0-W08181	14170	588	5251	-18	-1	6.0	4.1	-385	-1	-1	9.0	3182	69	2.6	60	0.300
56-43.6722-107.0200-2-14-						0-W08182	14830	135	5437	28	-1	3.9	2.6	-178	-1	-1	5.8	1961	38	2.5	-24	0.379
56-43.6788-107.0338-2-11-						0-W08183	12710	372	5050	38	-1	4.4	2.9	-240	-1	-1	6.5	2905	57	2.5	69	0.400
56-43.7055-106.7777-2-14-						0-W08184	11030	1387	5250	-30	-2	7.5	4.9	-518	-1	-1	11.0	2268	81	2.7	-63	0.655

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.7000-106.7763-2-11-						0-W08185-07/05/76-10-	28-18.0-		-	-			6.8-	4600-		8-1-7-5-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-								6.90
56-43.7388-106.7791-2-14-						0-W08186-07/05/76-10-	28-24.0-		-	-			7.4-	2500-		8-1-7-5-6-7-3-2-		-4-3-3-1-		-1-	-	-	-	-								7.30
56-43.6861-106.7638-2-97-						0-W08187-07/05/76-11-	29-		-	-			-	-		14-1-7-5-6-		- - -		-4-3-3-1-		-1-	-	-	-	-						5.40
56-43.6888-106.7791-2-14-						0-W08188-07/05/76-11-	29-25.0-		-	-			6.8-	1100-		12-1-7-5-6-3-3-2-		-4-3-3-1-		-1-	-	-	-	-								3.20
56-43.6958-106.7916-2-11-						0-W08189-07/05/76-11-	29-19.0-		-	-			6.8-	500-		9-1-7- - -3-3-1-		-4-3-3-1-		-1-	-	-	-	-								1.70
56-43.6458-106.7861-2-14-						0-W08190-07/05/76-12-	30-25.0-		-	-			8.2-	2000-		6-1-7-5-6-2-2-2-		-4-3-3-1-		-1-	-	-	-	-								3.30
56-43.6055-106.8722-2-15-						0-W08191-07/05/76-13-	32-		-	-			-	-		9-1-7- - - - - -		-4-3-3-1-		-1-	-	-	-	-								3.00
56-43.5958-106.8527-2-11-						0-W08192-07/05/76-13-	32-25.0-		-	-			7.4-	850-		9-1-7-6-8-2-2-2-		-4-3-3-1-		-1-	-	-	-	-								1.70
56-43.5875-106.8416-2-11-						0-W08193-07/05/76-13-	32-28.0-		-	-			7.6-	800-		14-1-7-6-8-2-2-2-		-4-3-3-1-		-1-	-	-	-	-								1.60
56-43.5708-106.8375-2-14-						0-W08194-07/05/76-14-	33-30.0-		-	-			7.8-	600-		16-1-7-5-6-2-2-3-		-4-3-3-1-		-1-	-	-	-	-								1.60
56-43.5541-106.8041-2-11-						0-W08195-07/05/76-14-	33-25.0-		-	-			7.2-	600-		6-1-7-4-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-								1.70
56-43.5527-106.7930-2-11-						0-W08196-07/05/76-14-	33-23.0-		-	-			7.4-	550-		6-1-7-4-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-								1.70
56-43.5472-106.8041-2-11-						0-W08197-07/05/76-14-	35-22.0-		-	-			7.2-	500-		6-1-7-4-4-2-2-1-		-4-3-3-1-		-1-	-	-	-	-								1.80
56-43.5888-106.8888-2-15-						0-W08198-07/05/76-15-	35-		-	-			-	-		9-1-4-4-4-		- - -		-4-3-3-1-		-1-	-	-	-	-						1.80
56-43.5722-106.8944-2-15-						0-W08200-07/05/76-16-	37-		-	-			-	-		6-1-4-5-4-		- - -		-4-3-3-1-		-1-	-	-	-	-						2.20
56-43.5611-106.8708-2-15-						0-W08201-07/05/76-16-	37-		-	-			-	-		6-1-4-4-6-		- - -		-4-3-3-1-		-1-	-	-	-	-						1.40
56-43.6208-106.9222-2-11-						0-W08202-07/05/76-16-	35-19.0-		-	-			6.8-	300-		6-1-4-4-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-								1.60
56-43.7133-107.0111-2-97-						0-W08204-07/08/76-10-	30-		-	-			-	-		9-1-7-4-6- - - -		-4-3-3-1-		-1-	-	-	-	-								1.20
56-43.7161-107.0283-2-97-						0-W08205-07/08/76-10-	30-		-	-			-	-		8-1-7-4-6- - - -		-4-3-3-1-		-1-	-	-	-	-								3.00
56-43.7177-107.0255-2-11-						0-W08206-07/08/76-10-	30-11.0-		-	-			6.9-	550-		11-1-7-5-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-								2.20
56-43.7111-107.0522-2-14-						0-W08207-07/08/76-10-	30-23.0-		-	-			6.6-	200-		9-1-7-5-6-2-3-2-		-4-3-3-1-		-1-	-	-	-	-								2.40
56-43.7016-107.0550-2-11-						0-W08208-07/08/76-10-	30-12.0-		-	-			7.2-	500-		8-1-7-5-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-								3.20
56-43.7200-107.0411-2-11-						0-W08209-07/08/76-11-	32-10.0-		-	-			7.2-	450-		9-1-7-5-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-								2.80
56-43.7411-107.0027-2-97-						0-W08210-07/08/76-11-	32-		-	-			-	-		8-1-4-4-4- - - -		-4-3-3-1-		-1-	-	-	-	-								2.10
56-43.7583-106.9541-2-12-						0-W08211-07/08/76-12-	32-18.0-		-	-			7.8-	350-		9-1-4- - -3-3-1-		-4-3-3-1-		-1-	-	-	-	-								2.20
56-43.7083-106.8166-2-15-						0-W08214-06/08/76-17-	35-		-	-			-	-		12-1-4-4-4- - - -		-4-3-2-1-		-1-	-	-	-	-								2.30
56-43.7555-106.8805-2-15-						0-W08215-07/08/76-17-	35-		-	-			-	-		12-1-4-4-4- - - -		-4-3-2-1-		-1-	-	-	-	-								2.10
56-43.6680-106.8166-2-14-						0-W08217-07/08/76-20-	28-26.0-		-	-			6.9-	6000-		11-1-4-5-7-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								5.20
56-43.6597-106.8458-2-11-						0-W08218-07/08/76-18-	28-18.0-		-	-			6.6-	7000-		9-1-7-5-6-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								4.50
56-43.9883-106.7183-2-15-						0-W08219-07/09/76-17-	36-		-	-			-	-		9-1-7-4-7-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								4.40
56-43.9961-106.7172-2-12-						0-W08220-07/09/76-17-	36-15.0-		-	-			6.9-	750-		8-1-7-5-6-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								3.10
56-43.9944-106.7625-2-12-						0-W08221-07/09/76-17-	36-14.0-		-	-			6.8-	700-		11-1-7-5-6-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								3.10
56-43.9708-106.7847-2-14-						0-W08222-07/09/76-17-	36-23.0-		-	-			7.2-	1400-		11-1-7-5-6-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								4.10
56-43.9625-106.7541-2-12-						0-W08223-07/09/76-18-	36-19.0-		-	-			7.4-	800-		9-1-7-4-6-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								2.60
56-43.8944-106.7541-2-14-						0-W08224-07/09/76-18-	36-19.0-		-	-			6.8-	1800-		9-1-7-5-6-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								4.10
56-43.9288-106.7133-2-14-						0-W08225-07/09/76-19-	36-20.0-		-	-			6.8-	1200-		11-1-7-5-6-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								4.30
56-43.8930-106.8361-2-11-						0-W08226-07/09/76-20-	27-16.0-		-	-			8.5-	700-		8-1-7-5-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-								2.30
56-43.9125-106.8444-2-11-						0-W08227-07/09/76-20-	27-19.0-		-	-			8.2-	500-		11-1-7-5-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-								2.10
56-43.9055-106.8055-2-11-						0-W08228-07/09/76-20-	27-18.0-		-	-			8.0-	550-		9-1-7-5-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-								2.10
56-43.8261-106.6833-2-97-						0-W08229-07/09/76-21-	25-		-	-			-	-		6-1-7-5-6- - - -		-4-3-2-1-		-1-	-	-	-	-								2.70
56-43.8255-106.6861-2-15-						0-W08230-07/09/76-21-	25-		-	-			-	-		11-1-7-5-6- - - -		-4-3-2-1-		-1-	-	-	-	-								2.70
56-43.8222-106.7238-2-15-						0-W08231-07/09/76-21-	25-		-	-			-	-		8-1-7-5-6- - - -		-4-3-2-1-		-1-	-	-	-	-								2.60
56-43.8211-106.7288-2-97-						0-W08232-07/09/76-21-	25-		-	-			-	-		11-1-7-5-6- - - -		-4-3-2-1-		-1-	-	-	-	-								2.70
56-43.8527-106.7777-2-14-						0-W08233-07/09/76-21-	25-21.0-		-	-			8.2-	1900-		11-1-7-6-8-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								2.70
56-43.5305-106.8625-2-12-						0-W08235-07/10/76- 7-	18-15.0-		-	-			6.8-	1100-		3-1-4-5-4-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								2.70
56-43.5319-106.8666-2-12-						0-W08236-07/10/76- 7-	18-15.0-		-	-			6.8-	1100-		3-1-4-5-4-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								2.90
56-43.5250-106.9222-2-97-						0-W08237-07/10/76- 7-	19-		-	-			-	-		6-1-4-5-6- - - -		-4-3-2-1-		-1-	-	-	-	-								3.90
56-43.5111-106.9250-2-15-						0-W08238-07/10/76- 7-	18-		-	-			-	-		12-1-7-4-6- - - -		-4-3-2-1-		-1-	-	-	-	-								2.80
56-43.5315-107.0141-2-15-						0-W08241-07/10/76- 9-	27-		-	-			-	-		14-1-4-5-6- - - -		-4-3-2-1-		-1-	-	-	-	-								3.40
56-43.5255-107.0311-2-11-						0-W08242-07/10/76- 9-	27-13.0-		-	-			7.2-	270-		16-1-4-5-6-3-3-1-		-4-3-2-1-		-1-	-	-	-	-								2.00
56-43.5632-107.0125-2-97-						0-W08243-07/10/76- 9-	27-		-	-			-	-		12-1-4-5-6- - - -		-4-3-2-1-		-1-	-	-	-	-								3.40

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.7000-106.7763-2-11-						0-W08185	-5	-5	-5	32	-20	30	17	-10	19	3	40
56-43.7388-106.7791-2-14-						0-W08186	-5	-5	-5	29	-20	34	15	-10	-15	3	36
56-43.6861-106.7638-2-97-						0-W08187	-5	-5	-5	33	-20	-15	8	-10	-15	2	40
56-43.6888-106.7791-2-14-						0-W08188	-5	-5	-5	12	-20	-15	8	-10	-15	2	35
56-43.6958-106.7916-2-11-						0-W08189	-5	-5	-5	-10	-20	-15	7	-10	-15	1	15
56-43.6458-106.7861-2-14-						0-W08190	-5	-5	-5	36	-20	48	15	-10	-15	2	64
56-43.6055-106.8722-2-15-						0-W08191	-5	-5	-5	26	-20	-15	7	-10	-15	2	27
56-43.5958-106.8527-2-11-						0-W08192	-5	-5	-5	10	-20	-15	5	-10	-15	1	26
56-43.5875-106.8416-2-11-						0-W08193	-5	-5	-5	17	-20	-15	6	-10	-15	1	18
56-43.5708-106.8375-2-14-						0-W08194	-5	-5	-5	27	-20	-15	-5	-10	-15	1	22
56-43.5541-106.8041-2-11-						0-W08195	-5	-5	-5	11	-20	-15	6	-10	-15	2	25
56-43.5527-106.7930-2-11-						0-W08196	-5	-5	-5	21	-20	-15	5	-10	-15	2	32
56-43.5472-106.8041-2-11-						0-W08197	-5	-5	-5	12	-20	-15	-5	-10	-15	2	33
56-43.5888-106.8888-2-15-						0-W08198	-5	-5	-5	10	-20	16	-5	-10	-15	1	86
56-43.5722-106.8944-2-15-						0-W08200	-5	-5	-5	24	-20	22	-5	-10	-15	1	47
56-43.5611-106.8708-2-15-						0-W08201	-5	-5	-5	10	-20	-15	9	-10	-15	1	15
56-43.6208-106.9222-2-11-						0-W08202	-5	-5	-5	-10	-20	-15	-5	-10	-15	-1	14
56-43.7133-107.0111-2-97-						0-W08204	-5	-5	-5	12	-20	16	-5	-10	-15	-1	8
56-43.7141-107.0283-2-97-						0-W08205	-5	-5	-5	15	-20	29	5	-10	-15	2	71
56-43.7177-107.0255-2-11-						0-W08206	-5	-5	-5	32	-20	19	-5	-10	-15	1	29
56-43.7111-107.0522-2-14-						0-W08207	-5	-5	-5	21	-20	30	-5	-10	-15	2	29
56-43.7016-107.0550-2-11-						0-W08208	-5	-5	-5	20	-20	23	9	-10	-15	2	38
56-43.7200-107.0411-2-11-						0-W08209	-5	-5	-5	15	-20	28	9	-10	-15	2	33
56-43.7411-107.0027-2-97-						0-W08210	-5	-5	-5	16	-20	29	5	-10	-15	2	83
56-43.7583-106.9541-2-12-						0-W08211	-5	-5	-5	21	-20	17	-5	-10	16	-1	33
56-43.7083-106.8166-2-15-						0-W08214	-5	-5	-5	53	-20	38	6	-10	-15	2	42
56-43.7555-106.8805-2-15-						0-W08215	-5	-5	-5	18	-20	-15	-5	-10	16	2	69
56-43.6680-106.8166-2-14-						0-W08217	-5	-5	-5	39	-20	24	12	-10	-15	2	49
56-43.6597-106.8458-2-11-						0-W08218	-5	-5	-5	57	-20	18	8	14	19	2	67
56-43.9883-106.7183-2-15-						0-W08219	-5	-5	-5	13	-20	26	12	-10	-15	2	37
56-43.9961-106.7172-2-12-						0-W08220	-5	-5	-5	38	-20	-15	18	-10	-15	2	61
56-43.9944-106.7625-2-12-						0-W08221	-5	-5	-5	27	-20	32	7	-10	-15	2	61
56-43.9708-106.7847-2-14-						0-W08222	-5	-5	-5	28	-20	23	15	-10	-15	2	50
56-43.9625-106.7541-2-12-						0-W08223	-5	-5	-5	37	-20	-15	12	-10	-15	2	35
56-43.8944-106.7541-2-14-						0-W08224	-5	-5	-5	39	-20	33	12	-10	22	2	79
56-43.9288-106.7133-2-14-						0-W08225	-5	-5	-5	46	-20	39	5	-10	-15	2	40
56-43.8930-106.8361-2-11-						0-W08226	-5	-5	-5	34	-20	-15	7	-10	-15	1	15
56-43.9125-106.8444-2-11-						0-W08227	-5	-5	-5	19	-20	-15	-5	-10	-15	1	13
56-43.9055-106.8055-2-11-						0-W08228	-5	-5	-5	23	-20	-15	10	-10	-15	2	19
56-43.8261-106.6833-2-97-						0-W08229	-5	-5	-5	22	-20	-15	-5	-10	-15	2	59
56-43.8255-106.6861-2-15-						0-W08230	-5	-5	-5	14	-20	-15	-5	-10	-15	1	49
56-43.8222-106.7238-2-15-						0-W08231	-5	-5	-5	10	-20	18	8	-10	-15	2	50
56-43.8211-106.7288-2-97-						0-W08232	-5	-5	-5	19	-20	-15	-5	-10	-15	2	48
56-43.8527-106.7777-2-14-						0-W08233	-5	-5	-5	26	-20	18	20	-10	-15	2	46
56-43.5305-106.8625-2-12-						0-W08235	-5	-5	-5	20	-20	22	6	-10	-15	2	77
56-43.5319-106.8666-2-12-						0-W08236	-5	-5	-5	18	-20	15	9	-10	-15	2	46
56-43.5250-106.9222-2-97-						0-W08237	-5	-5	-5	30	-20	21	-5	-10	-15	2	77
56-43.5111-106.9250-2-15-						0-W08238	-5	-5	-5	21	-20	-15	-5	-10	-15	1	26
56-43.5316-107.0141-2-15-						0-W08241	-5	-5	-5	19	-20	25	15	-10	-15	2	38
56-43.5255-107.0311-2-11-						0-W08242	-5	-5	-5	17	-20	-15	-5	-10	-15	1	16
56-43.5633-107.0125-2-97-						0-W08243	-5	-5	-5	19	-20	19	14	-10	-15	2	43

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.7000-	106.7763-	2-	11-	0-	W08185	64630	-0.07	429	22140	66	-73	14.4	41	5.2	5	1.1	19500	4.9	13030	35	0.4
56-	43.7388-	106.7791-	2-	14-	0-	W08186	75050	-0.08	424	7891	68	-77	12.1	56	5.8	5	1.1	18270	3.7	17710	32	0.4
56-	43.6861-	106.7638-	2-	97-	0-	W08187	48500	-0.08	721	21380	55	-119	6.5	35	2.5	6	0.8	13580	5.4	27050	25	-0.2
56-	43.6888-	106.7791-	2-	14-	0-	W08188	46900	-0.06	427	17150	48	-56	6.1	37	2.6	4	1.0	10720	7.7	15400	26	0.3
56-	43.6958-	106.7916-	2-	11-	0-	W08189	22540	-0.04	408	13130	23	-50	4.4	15	1.0	4	0.6	5736	6.6	13490	13	0.2
56-	43.6458-	106.7861-	2-	14-	0-	W08190	20070	-0.07	396	29900	62	-78	12.0	36	3.6	2	1.1	16480	4.4	15450	34	0.3
56-	43.6055-	106.8722-	2-	15-	0-	W08191	24270	-0.06	273	23500	37	-52	6.3	37	-1.2	3	1.0	12770	7.7	12260	22	0.3
56-	43.5958-	106.8527-	2-	11-	0-	W08192	21820		802	21250		-62				4				11790		
56-	43.5875-	106.8416-	2-	11-	0-	W08193	17220	-0.04	414	40330	28	-57	5.1	22	1.2	3	0.8	6637	10.7	13150	21	0.3
56-	43.5708-	106.8375-	2-	14-	0-	W08194	16010	-0.05	513	45290	30	-62	5.6	28	1.6	2	0.7	6450	6.7	11400	15	0.2
56-	43.5541-	106.8041-	2-	11-	0-	W08195	36140	-0.07	391	35770	25	-67	5.5	23	1.6	2	0.5	7884	6.9	16090	18	0.2
56-	43.5527-	106.7930-	2-	11-	0-	W08196	35560	-0.07	341	37470	40	-72	6.6	35	2.8	3	0.7	8075	8.7	14620	22	0.3
56-	43.5472-	106.8041-	2-	11-	0-	W08197	39580	-0.05	483	43740	33	-60	5.9	27	2.1	3	0.8	8650	5.1	15710	19	0.2
56-	43.5888-	106.8888-	2-	15-	0-	W08198	31760	-0.04	293	83290	31	79	5.2	43	2.0	3	0.6	8521	5.0	14510	18	0.3
56-	43.5722-	106.8944-	2-	15-	0-	W08200	31780	-0.04	314	62870	31	-48	6.1	35	2.2	3	0.6	8312	7.1	14790	15	0.2
56-	43.5611-	106.8708-	2-	15-	0-	W08201	19440	-0.03	297	26040	14	51	3.1	18	-0.9	2	0.4	4200	4.6	12170	10	0.1
56-	43.6208-	106.9222-	2-	11-	0-	W08202	15620	-0.03	151	48220	18	58	-0.5	21	-0.7	1	0.5	2248	10.6	10060	4	0.1
56-	43.7133-	107.0111-	2-	97-	0-	W08204	17850	-0.03	281	2005	16	-26	4.3	16	1.3	1	0.5	4493	7.2	8961	10	0.1
56-	43.7161-	107.0283-	2-	97-	0-	W08205	48880	-0.05	319	40980	41	-49	7.9	46	4.7	4	0.9	11820	5.7	17950	22	0.3
56-	43.7177-	107.0255-	2-	11-	0-	W08206	36060	-0.06	277	41610	34	-60	5.6	27	3.8	3	0.6	8248	5.2	12800		-0.1
56-	43.7111-	107.0522-	2-	14-	0-	W08207	38700	-0.04	260	25200	39	-63	6.8	42	2.3	3	0.7	10750	6.9	13770	11	0.2
56-	43.7016-	107.0550-	2-	11-	0-	W08208	54240	-0.05	576	21810	69	-70	9.7	66	3.0	4	1.1	16040	13.3	15250	43	0.5
56-	43.7200-	107.0411-	2-	11-	0-	W08209	43320	-0.05	442	12710	47	-63	8.2	41	2.2	4	0.8	9624	9.1	15990	24	0.3
56-	43.7411-	107.0027-	2-	97-	0-	W08210	54880	-0.07	401	65930	50	144	7.4	50	6.1	4	0.7	16010	3.8	26970	28	-0.1
56-	43.7583-	106.9541-	2-	12-	0-	W08211	30770	-0.03	309	85360	39	-62	5.5	45	1.7	3	0.7	7923	8.1	17940	18	0.3
56-	43.7083-	106.8166-	2-	15-	0-	W08214	41690	-0.04	377	63500	44	-68	7.9	39	1.9	4	0.8	10310	7.0	17990	21	0.2
56-	43.7555-	106.8805-	2-	15-	0-	W08215	36880	-0.05	341	59420	30	-71	6.5	28	2.4	3	0.7	9564	7.5	14000	20	0.2
56-	43.6680-	106.8166-	2-	14-	0-	W08217	72270	-0.12	406	4166	74	-58	13.6	64	3.7	5	1.2	23880	6.3	15380	49	0.5
56-	43.6597-	106.8458-	2-	11-	0-	W08218	52880	-0.05	662	6136	68	-112	14.2	54	3.7	5	1.3	25510	8.6	10740	39	0.5
56-	43.9883-	106.7183-	2-	15-	0-	W08219	43370	-0.04	687	12160	49	129	6.4	28	2.8	4	0.9	8557	10.5	13960	27	0.3
56-	43.9961-	106.7172-	2-	12-	0-	W08220	56010	-0.07	624	38150	49	-77	8.2	44	3.9	4	0.9	14730	4.7	16210	31	-0.1
56-	43.9944-	106.7625-	2-	12-	0-	W08221	54880	-0.05	571	35640	48	-81	7.4	45	3.3	3	0.9	12950	4.7	17750	28	0.3
56-	43.9708-	106.7847-	2-	14-	0-	W08222	59870	-0.06	640	55030	61	116	9.2	51	4.6	4	1.1	14290	4.1	16790	32	0.3
56-	43.9625-	106.7541-	2-	12-	0-	W08223	43590	-0.04	475	23950	43	-61	7.4	28	2.5	3	1.0	9199	5.9	14050	24	0.3
56-	43.8944-	106.7541-	2-	14-	0-	W08224	53120	-0.07	537	79870	40	98	8.2	47	3.2	4	1.0	12260	3.7	14900	26	0.2
56-	43.9288-	106.7133-	2-	14-	0-	W08225	51020	-0.05	537	84060	39	-83	7.6	44	3.7	3	1.0	11170	3.4	13200	27	0.2
56-	43.8930-	106.8361-	2-	11-	0-	W08226	34720	-0.05	360	65860	35	173	7.6	35	2.4	2	0.8	8058	6.6	10580	22	0.2
56-	43.9125-	106.8444-	2-	11-	0-	W08227	31600	-0.07	357	78010	23	194	9.3	-13	-1.7	2	0.6	5742	4.7	8779	15	-0.2
56-	43.9055-	106.8055-	2-	11-	0-	W08228	33750	-0.06	390	73260	26	139	7.0	27	-1.6	2	0.5	6382	5.0	8757	15	-0.2
56-	43.8261-	106.6833-	2-	97-	0-	W08229	45980	-0.03	513	25790	41	-70	4.7	28	2.6	2	0.8	8629	6.7	16960	24	0.2
56-	43.8255-	106.6861-	2-	15-	0-	W08230	43800	-0.04	613	20970	49	-48	5.7	26	3.9	2	0.9	9787	8.7	14690	27	0.2
56-	43.8222-	106.7238-	2-	15-	0-	W08231	46280	-0.04	649	20820	46	-50	5.7	24	2.3	2	1.1	8366	6.5	15610	26	0.2
56-	43.8211-	106.7288-	2-	97-	0-	W08232	48760	-0.05	586	25720	43	-55	5.4	29	3.2	3	1.0	9970	9.3	17040	26	0.2
56-	43.8527-	106.7777-	2-	14-	0-	W08233	46540	-0.03	566	26410	43	-68	5.2	29	2.8	2	0.9	8130	6.3	16740	14	0.2
56-	43.5305-	106.8625-	2-	12-	0-	W08235	41500	-0.05	338	77430	45	138	8.6	48	2.6	4	1.0	12360	7.8	14870	29	0.4
56-	43.5319-	106.8666-	2-	12-	0-	W08236	37580	-0.04	353	67250	37	140	6.7	38	-1.1	4	0.9	8453	8.4	14430	21	0.3
56-	43.5250-	106.9222-	2-	97-	0-	W08237	38370	-0.05	385	52960	38	-48	5.8	43	2.9	3	0.8	11590	8.3	22570	24	0.3
56-	43.5111-	106.9250-	2-	15-	0-	W08238	35690	-0.03	287	45510	31	-56	-0.5	41	2.3	2	0.7	7907	7.6	13410	8	0.2
56-	43.5316-	107.0141-	2-	15-	0-	W08241	55700	-0.05	557	6563	67	-58	8.3	63	3.6	4	1.2	15310	9.5	16440	41	0.4
56-	43.5255-	107.0311-	2-	11-	0-	W08242	31480	-0.04	303	7275	28	-58	3.7	24	1.9	2	0.7	5296	9.0	12170	17	0.2
56-	43.5433-	107.0125-	2-	97-	0-	W08243	65930	-0.04	474	6876	73	-59	8.8	63	3.7	5	1.2	15830	9.6	16260	42	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.7000-106.7763-2-11-					0-	W08185	12960	853	5548	54	-2	7.7	5.7	-358	-1	-1	13.5	2762	79	3.7	164	0.511
56-43.7388-106.7791-2-14-					0-	W08186	11860	798	4179	-29	-2	7.8	6.1	-404	-1	-1	15.5	3143	97	2.9	-89	0.471
56-43.6961-106.7638-2-97-					0-	W08187	12590	1450	8704	-29	-2	5.7	3.0	-561	-1	-1	9.5	3526	84	-1.8	-38	0.568
56-43.6888-106.7791-2-14-					0-	W08188	12810	701	6614	-16	-2	5.7	4.3	-196	-1	1	7.7	3127	48	3.8	-48	0.416
56-43.6958-106.7916-2-11-					0-	W08189	8182	183	5945	-15	-1	2.7	1.8	-171	-1		3.1	1922	30	1.1	-24	0.548
56-43.6458-106.7861-2-14-					0-	W08190	11380	257	9518	38	-2	8.1	4.5	-265	-1	-1	8.5	1628	15	2.5	107	0.388
56-43.6055-106.8722-2-15-					0-	W08191	12960	348	3478	-20	-2	3.9	3.2	-230	-1	-1	6.6	1499	45	2.1	-158	0.455
56-43.5958-106.8527-2-11-					0-	W08192	7405	686	5376					-287				2415	32			
56-43.5875-106.8416-2-11-					0-	W08193	14330	271	6556	-16	-1	3.1	2.4	-198	-1	-1	3.9	1582	22	2.6	-24	0.410
56-43.5708-106.8375-2-14-					0-	W08194	9427	291	5945	-16	-1	3.1	2.3	-228	-1	-1	4.2	1249	18	1.6	-23	0.381
56-43.5541-106.8041-2-11-					0-	W08195	16990	264	7614	-21	-2	4.4	1.9	-236	-1	-1	4.7	2003	26	3.0	-30	0.362
56-43.5527-106.7930-2-11-					0-	W08196	18310	280	7213	42	-2	4.3	3.4	-263	-1	-1	6.0	2424	28	-1.5	47	0.283
56-43.5472-106.8041-2-11-					0-	W08197	19360	274	7186	36	-1	4.5	3.0	-211	-1	-1	5.0	2185	43	1.4	35	0.360
56-43.5888-106.8888-2-15-					0-	W08198	51420	368	3480	26	-1	4.5	3.1	390	-1	-1	5.4	2475	34	2.2	37	0.333
56-43.5722-106.8944-2-15-					0-	W08200	47320	260	2880	-17	-1	3.6	2.4	-198	-1	-1	4.7	2333	35	1.7	-35	0.468
56-43.5611-106.8708-2-15-					0-	W08201	22070	132	2231	-15	-1	2.0	0.7	-152	-1	-1	2.5	1311	20	-0.9	-20	0.560
56-43.6208-106.9222-2-11-					0-	W08202	23840	96	1674	-11	-1	1.8	1.2	-159			2.4	1178	17	1.3	-26	0.667
56-43.7133-107.0111-2-97-					0-	W08204	4289	114	1759	-11	-1	2.0	1.0	-120	-1		2.6	892	17	1.1	27	0.462
56-43.7161-107.0283-2-97-					0-	W08205	40270	259	2912	43	-1	5.7	2.9	-213	-1	-1	6.3	3198	66	-1.2	-32	0.476
56-43.7177-107.0255-2-11-					0-	W08206	45400	117	4366	-25	-2	3.9	1.9	-222	-1	-1	4.9	2098	47	-1.5	-17	0.449
56-43.7111-107.0522-2-14-					0-	W08207	25790	338	4220	-14	-1	4.6	2.6	-267	-1	-1	6.1	2706	57	1.9	1688	0.393
56-43.7016-107.0550-2-11-					0-	W08208	19540	402	7608	45	-2	7.5	5.1	-274	-1	-1	11.9	4336	74	3.3	73	0.269
56-43.7200-107.0411-2-11-					0-	W08209	13540	394	6773	-18	-1	4.3	2.9	-249	-1	-1	6.9	2896	52	2.8	60	0.406
56-43.7411-107.0027-2-97-					0-	W08210	57120	341	2247	-30	-2	8.0	2.4	-283	-1	-1	8.3	3786	65	2.2	-178	0.253
56-43.7583-106.9541-2-12-					0-	W08211	32820	300	2974	20	-1	3.8	2.7	-252		-1	5.8	2262	34	1.7	26	0.379
56-43.7083-106.8166-2-15-					0-	W08214	35680	398	8398	-17	-1	5.0	2.6	482	-1	-1	6.0	2883	44	1.9	31	0.383
56-43.7555-106.8805-2-15-					0-	W08215	34240	349	7687	-19	-1	4.7	1.7	-255	-1	-1	5.6	2742	40	2.3	-35	0.375
56-43.6680-106.8166-2-14-					0-	W08217	9436	517	3021	35	-4	13.3	4.6	-306	-1	-1	10.3	4969	106	5.1	-66	0.505
56-43.6597-106.8458-2-11-					0-	W08218	12090	1191	16050	-23	-2	9.3	6.2	-440	-1	-1	10.2	3324	80	4.1	92	0.441
56-43.9883-106.7183-2-15-					0-	W08219	8528	216	9776	25	-1	3.5	4.1	-204	-1	-1	8.1	2559	71	2.4	50	0.543
56-43.9961-106.7172-2-12-					0-	W08220	25370	479	5448	-28	-2	6.4	2.8	-335	-1	-1	8.4	3221	87	-1.7	-46	0.369
56-43.9944-106.7625-2-12-					0-	W08221	23130	485	5488	-18	-1	6.0	3.4	-355	-1	-1	8.1	2842	83	2.5	-61	0.383
56-43.9708-106.7847-2-14-					0-	W08222	24570	233	4598	27	-2	7.8	4.6	321	-1	-1	7.9	3441	131	2.5	-97	0.519
56-43.9625-106.7541-2-12-					0-	W08223	17400	417	5826	33	-1	4.0	3.7	-241	-1	-1	5.8	2405	58	2.2	43	0.448
56-43.8944-106.7541-2-14-					0-	W08224	22330	233	4098	-28	-2	6.4	2.3	443	-2	-1	8.4	2461	115	2.5	-36	0.488
56-43.9288-106.7133-2-14-					0-	W08225	21010	240	4120	31	-2	5.8	3.1	-303	-1	-1	8.2	2314	113	-1.6	-35	0.524
56-43.8930-106.8361-2-11-					0-	W08226	59130	145	5950	-23	-2	3.6	2.5	-245	-1	-1	5.3	1654	44	2.6	-41	0.434
56-43.9125-106.8444-2-11-					0-	W08227	91790	123	5060	-30	-2	2.5	1.7	-299	-1	-1	4.2	1400	34	-1.8	-51	0.500
56-43.9055-106.8055-2-11-					0-	W08228	57480	149	5745	-28	-2	3.3	1.3	-285	-2	-1	5.9	1825	39	-1.6	-49	0.356
56-43.8761-106.6833-2-97-					0-	W08229	11900	151	7332	-15	-1	3.9	2.8	-228	-1	-1	7.8	2054	59	1.7	24	0.346
56-43.8255-106.6861-2-15-					0-	W08230	9739	112	5370	48	-1	4.8	3.7	280	-1	-1	8.1	2873	56	2.0	-14	0.333
56-43.8222-106.7238-2-15-					0-	W08231	9604	101	5630	24	-1	3.7	3.0	346	-1	-1	6.7	2494	54	1.8	-20	0.388
56-43.8211-106.7288-2-97-					0-	W08232	10830	146	5198	-21	-2	5.1	2.0	338	-1	-1	7.0	2992	64	2.3	-35	0.386
56-43.8527-106.7777-2-14-					0-	W08233	12870	151	6403	-13	-1	4.1	2.7	-222	-1	-1	8.0	2124	65	2.3		0.338
56-43.5305-106.8625-2-12-					0-	W08235	13990	377	6841	-19	-1	6.4	4.2	584	-1	-1	6.8	3218	48	3.5	52	0.397
56-43.5319-106.8666-2-12-					0-	W08236	45460	287	5844	-16	-1	3.9	3.8	331	-1	-1	5.2	3096	49	3.0	-30	0.558
56-43.5250-106.9222-2-97-					0-	W08237	47960	238	1398	-22	-2	5.4	2.1	426	-1	-1	6.0	3245	65	3.2	133	0.650
56-43.5111-106.9250-2-15-					0-	W08238	25390	216	3735	-12	-1	4.1	2.2	-224			5.3	2250	51	2.0	-28	0.528
56-43.5316-107.0141-2-15-					0-	W08241	13400	398	6166	33	-1	7.3	4.8	-239	-1	-1	9.0	3571	70	3.5	48	0.378
56-43.5255-107.0311-2-11-					0-	W08242	7691	97	4779	-13	-1	3.1	2.0	-207	-1	-1	4.9	2025	42	2.0	48	0.408
56-43.5633-107.0125-2-97-					0-	W08243	13940	415	6308	52	-1	7.5	4.9	-247	-1	-1	10.6	3656	76	2.6	127	0.321

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																									
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.5583-	107.0377-2-11-				0-W08244-	07/10/76-	9-	27-	12.0-	-	-	6.9-	250-	.	14-1-4-5-6-	3-3-1-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
56-	43.5430-	107.0613-2-11-				0-W08245-	07/10/76-	10-	28-	8.0-	-	-	6.5-	260-		11-1-4-5-6-	3-3-1-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	4.00
56-	43.5305-	107.0727-2-11-				0-W08246-	07/10/76-	10-	28-	6.0-	-	-	6.3-	240-		6-1-4-5-6-	3-3-1-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
56-	43.5294-	107.0761-2-12-				0-W08247-	07/10/76-	10-	28-	15.0-	-	-	6.6-	300-		6-1-4-5-6-	3-3-1-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-	43.5561-	107.0888-2-11-				0-W08248-	07/10/76-	11-	31-	13.0-	-	-	6.8-	350-		12-1-4-5-6-	3-3-1-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
56-	43.5400-	107.1100-2-12-				0-W08249-	07/10/76-	11-	31-	14.0-	-	-	7.4-	310-		12-1-4-5-6-	3-3-1-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
56-	43.5702-	107.0894-2-11-				0-W08250-	07/10/76-	11-	31-	11.0-	-	-	6.3-	300-		11-1-4-5-6-	3-3-1-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-	43.5716-	107.1150-2-11-				0-W08251-	07/10/76-	11-	31-	9.0-	-	-	6.8-	165-		9-1-4-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	5.30
56-	43.5950-	107.1044-2-11-				0-W08252-	07/10/76-	12-	32-	14.0-	-	-	7.2-	260-		9-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	5.00
56-	43.7633-	107.1113-2-11-				0-W08253-	07/10/76-	13-	35-	17.0-	-	-	6.8-	150-		16-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.80
56-	43.7844-	107.0527-2-11-				0-W08254-	07/10/76-	13-	35-	15.0-	-	-	6.9-	200-		14-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
56-	43.7811-	107.1183-2-11-				0-W08255-	07/10/76-	14-	35-	19.0-	-	-	6.5-	210-		16-1-7-6-8-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-	43.7938-	107.1033-2-11-				0-W08256-	07/10/76-	14-	35-	12.0-	-	-	5.8-	50-		9-1-7-	-	-3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.40
56-	43.8044-	107.1113-2-11-				0-W08257-	07/10/76-	14-	35-	10.0-	-	-	5.7-	50-		12-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.90
56-	43.8238-	107.0888-2-11-				0-W08258-	07/10/76-	14-	36-	12.0-	-	-	5.8-	40-		6-1-7-5-4-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	6.50
56-	43.8133-	107.0488-2-12-				0-W08259-	07/10/76-	14-	36-	13.0-	-	-	6.3-	110-		3-1-7-	-	-3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.10
56-	43.8583-	107.0961-2-11-				0-W08260-	07/10/76-	15-	35-	8.0-	-	-	5.2-	40-		9-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-	43.8402-	107.0738-2-11-				0-W08261-	07/10/76-	15-	35-	9.0-	-	-	5.5-	50-		8-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
56-	43.8794-	107.1083-2-11-				0-W08262-	07/10/76-	15-	35-	13.0-	-	-	6.6-	350-		12-1-7-4-6-	3-3-1-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-	43.8838-	107.0800-2-14-				0-W08263-	07/10/76-	15-	35-	21.0-	-	-	6.3-	250-		16-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
56-	43.8977-	107.0766-2-11-				0-W08264-	07/10/76-	15-	35-	15.0-	-	-	6.8-	300-		3-1-7-5-6-	3-3-1-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
56-	43.9083-	107.0283-2-12-				0-W08265-	07/10/76-	16-	36-	12.0-	-	-	6.5-	270-		12-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-	43.8138-	106.8361-2-11-				0-W08267-	07/10/76-	17-	37-	18.0-	-	-	7.2-	2400-		8-1-7-5-6-	3-3-1-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
56-	43.8277-	106.8250-2-11-				0-W08270-	07/10/76-	17-	37-	26.0-	-	-	6.9-	2600-		12-1-7-5-4-	3-3-1-	-4-3-3-1-	-2-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
56-	43.9872-	107.0366-2-14-				0-W08271-	07/14/76-	8-	15-	9.0-	-	-	6.3-	270-		12-1-7-4-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-	43.9788-	107.0594-2-14-				0-W08272-	07/14/76-	9-	20-	14.0-	-	-	5.2-	21-		8-1-7-5-6-	3-3-1-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	4.20
56-	43.9805-	107.1194-2-11-				0-W08273-	07/14/76-	9-	20-	12.0-	-	-	6.1-	300-		8-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
56-	43.9783-	107.0838-2-14-				0-W08274-	07/14/76-	9-	20-	13.0-	-	-	6.8-	300-		9-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
56-	43.9616-	107.0944-2-14-				0-W08275-	07/14/76-	9-	20-	11.0-	-	-	6.5-	350-		6-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
56-	43.9511-	107.0572-2-14-				0-W08276-	07/14/76-	9-	20-	12.0-	-	-	6.1-	340-		11-1-7-5-6-	3-3-1-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
56-	43.9555-	107.0327-2-11-				0-W08277-	07/14/76-	10-	20-	10.0-	-	-	6.5-	400-		12-1-7-4-4-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
56-	43.9577-	107.0472-2-11-				0-W08278-	07/14/76-	10-	20-	9.0-	-	-	6.1-	290-		11-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
56-	43.9283-	107.0911-2-11-				0-W08279-	07/14/76-	10-	20-	10.0-	-	-	6.5-	300-		9-1-7-5-6-	3-3-1-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
56-	43.9238-	107.0588-2-11-				0-W08280-	07/14/76-	10-	20-	9.0-	-	-	6.3-	270-		14-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
56-	43.9127-	107.0516-2-11-				0-W08281-	07/14/76-	11-	25-	9.0-	-	-	6.8-	350-		9-1-7-5-6-	3-3-1-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-	43.9044-	107.0338-2-11-				0-W08282-	07/14/76-	11-	25-	11.0-	-	-	6.5-	375-		6-1-7-5-6-	3-3-1-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-	43.8972-	106.9875-2-11-				0-W08283-	07/14/76-	11-	25-	16.0-	-	-	6.8-	330-		8-1-7-	-	-3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-	43.8597-	106.9666-2-15-				0-W08284-	07/14/76-	11-	25-	-	-	-	-	-	-	6-1-7-5-6-	-	-	-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.50
56-	43.8694-	106.9138-2-12-				0-W08285-	07/14/76-	12-	25-	15.0-	-	-	6.4-	325-		9-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-	43.8694-	106.9055-2-11-				0-W08286-	07/14/76-	12-	25-	12.0-	-	-	6.3-	350-		11-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
56-	43.8472-	106.9694-2-11-				0-W08287-	07/14/76-	13-	26-	12.0-	-	-	6.3-	325-		6-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
56-	43.8333-	106.9638-2-11-				0-W08288-	07/14/76-	13-	27-	12.0-	-	-	6.3-	350-		6-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
56-	43.8166-	106.9611-2-11-				0-W08289-	07/14/76-	13-	27-	14.0-	-	-	6.8-	420-		9-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
56-	43.7791-	106.9250-2-15-				0-W08290-	07/14/76-	14-	28-	-	-	-	-	-	-	9-1-7-5-6-	-	-	-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.30
56-	43.7805-	106.9069-2-11-				0-W08291-	07/14/76-	14-	28-	13.0-	-	-	6.8-	400-		11-1-7-5-6-	3-3-1-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
56-	43.6266-	107.0875-2-11-				0-W08292-	07/14/76-	20-	20-	12.0-	-	-	6.9-	250-		9-1-7-5-6-	3-3-1-	-4-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-	43.9950-	107.3994-2-15-				0-W08293-	07/02/76-	14-	25-	-	-	-	-	-	-	11-1-4-5-4-	-1-	-3-4-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-	43.9939-	107.3994-2-15-				0-W08294-	07/02/76-	14-	25-	-	-	-	-	-	-	6-1-4-4-4-	-1-	-3-4-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.10
56-	43.9728-	107.3889-2-15-				0-W08295-	07/02/76-	15-	25-	-	-	-	-	-	-	8-1-4-5-6-	-1-	-3-4-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-	43.9578-	107.3878-2-15-				0-W08296-	07/02/76-	15-	24-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-3-4-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-	43.9194-	107.3792-2-15-				0-W08297-	07/02/76-	15-	24-	-	-	-	-	-	-	17-1-7-5-6-	-1-	-3-4-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.50

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.5583-107.0377-2-11-						0-W08244	-5	-5	-5	21	-20	-15	6	-10	-15	1	26
56-43.5430-107.0613-2-11-						0-W08245	-5	-5	-5	35	-20	20	21	16	-15	2	28
56-43.5305-107.0727-2-11-						0-W08246	-5	-5	-5	17	-20	-15	6	-10	-15	2	21
56-43.5294-107.0761-2-12-						0-W08247	-5	-5	-5	21	-20	18	8	-10	-15	2	22
56-43.5561-107.0888-2-11-						0-W08248	-5	-5	-5	16	-20	-15	12	-10	-15	2	36
56-43.5400-107.1100-2-12-						0-W08249	-5	-5	-5	18	-20	28	11	-10	-15	2	48
56-43.5702-107.0894-2-11-						0-W08250	-5	-5	-5	23	-20	-15	7	-10	-15	2	34
56-43.5716-107.1150-2-11-						0-W08251	-5	-5	-5	-10	-20	-15	13	-10	16	2	36
56-43.5950-107.1044-2-11-						0-W08252	-5	-5	-5	19	-20	-15	16	-10	-15	2	62
56-43.7633-107.1113-2-11-						0-W08253	-5	-5	-5	22	-20	29	13	-10	-15	2	47
56-43.7844-107.0527-2-11-						0-W08254	-5	-5	-5	20	-20	-15	14	-10	-15	2	35
56-43.7811-107.1183-2-11-						0-W08255	-5	-5	-5	22	-20	17	12	-10	-15	2	34
56-43.7938-107.1033-2-11-						0-W08256	-5	-5	-5	32	-20	26	8	-10	-15	2	30
56-43.8044-107.1113-2-11-						0-W08257	-5	-5	-5	13	-20	-15	11	10	-15	1	19
56-43.8238-107.0888-2-11-						0-W08258	-5	-5	-5	21	-20	30	7	-10	-15	1	28
56-43.8133-107.0488-2-12-						0-W08259	-5	-5	-5	25	-20	-15	9	-10	-15	2	37
56-43.8583-107.0961-2-11-						0-W08260	-5	-5	-5	20	-20	-15	12	-10	-15	2	39
56-43.8402-107.0738-2-11-						0-W08261	-5	-5	-5	20	-20	22	8	-10	-15	2	25
56-43.8794-107.1083-2-11-						0-W08262	-5	-5	-5	23	-20	26	10	-10	-15	2	27
56-43.8838-107.0800-2-14-						0-W08263	-5	-5	-5	22	-20	-15	9	-10	-15	2	38
56-43.8977-107.0766-2-11-						0-W08264	-5	-5	-5	15	-20	15	7	-10	-15	2	24
56-43.9083-107.0283-2-12-						0-W08265	-5	-5	-5	20	-20	-15	8	-10	-15	2	35
56-43.8138-106.8361-2-11-						0-W08267	-5	-5	-5	16	-20	-15	5	-10	-15	1	26
56-43.8277-106.8250-2-11-						0-W08270	-5	-5	-5	10	-20	-15	-5	-10	-15	1	33
56-43.9872-107.0366-2-14-						0-W08271	-5	-5	-5	12	-20	32	6	-10	-15	2	28
56-43.9788-107.0594-2-14-						0-W08272	-5	-5	-5	22	-20	28	9	-10	-15	2	35
56-43.9805-107.1194-2-11-						0-W08273	-5	-5	-5	13	-20	-15	6	-10	-15	1	16
56-43.9783-107.0838-2-14-						0-W08274	-5	-5	-5	18	-20	15	-5	-10	18	2	27
56-43.9616-107.0944-2-14-						0-W08275	-5	-5	-5	18	-20	-15	-5	-10	-15	1	18
56-43.9511-107.0572-2-14-						0-W08276	-5	-5	-5	20	-20	-15	12	-10	-15	2	43
56-43.9555-107.0327-2-11-						0-W08277	-5	-5	-5	19	-20	22	-5	-10	21	-1	5
56-43.9577-107.0472-2-11-						0-W08278	-5	-5	-5	19	-20	-15	10	-10	-15	2	30
56-43.9283-107.0911-2-11-						0-W08279	-5	-5	-5	17	-20	18	7	-10	-15	1	23
56-43.9238-107.0588-2-11-						0-W08280	-5	-5	-5	26	-20	-15	14	-10	-15	1	22
56-43.9127-107.0516-2-11-						0-W08281	-5	-5	-5	19	-20	-15	11	-10	-15	2	27
56-43.9044-107.0338-2-11-						0-W08282	-5	-5	-5	24	-20	-15	10	-10	-15	2	25
56-43.8972-106.9875-2-11-						0-W08283	-5	-5	-5	19	-20	-15	10	-10	-15	2	27
56-43.8597-106.9666-2-15-						0-W08284	-5	-5	-5	27	-20	21	14	10	-15	2	42
56-43.8694-106.9138-2-12-						0-W08285	-5	-5	-5	13	-20	-15	-5	-10	-15	1	21
56-43.8694-106.9055-2-11-						0-W08286	-5	-5	-5	25	-20	-15	5	-10	-15	2	25
56-43.8472-106.9694-2-11-						0-W08287	-5	-5	-5	15	-20	-15	7	-10	-15	2	24
56-43.8333-106.9638-2-11-						0-W08288	-5	-5	-5	16	-20	-15	8	-10	-15	1	15
56-43.8166-106.9611-2-11-						0-W08289	-5	-5	-5	27	-20	-15	12	-10	-15	2	25
56-43.7791-106.9250-2-15-						0-W08290	-5	-5	-5	21	-20	-15	8	-10	-15	2	24
56-43.7805-106.9069-2-11-						0-W08291	-5	-5	-5	17	-20	-15	7	-10	-15	2	26
56-43.6266-107.0875-2-11-						0-W08292	-5	-5	-5	11	-20	-15	11	-10	-15	2	29
56-43.9950-107.3994-2-15-						0-W08293	-5	-5	-5	15	-20	-15	-5	-10	-15	2	43
56-43.9939-107.3994-2-15-						0-W08294	-5	-5	-5	15	-20	-15	-5	-10	-15	1	32
56-43.9728-107.3889-2-15-						0-W08295	-5	-5	-5	17	-20	-15	-5	-10	-15	2	19
56-43.9578-107.3878-2-15-						0-W08296	-5	-5	-5	14	-20	-15	-5	-10	-15	2	43
56-43.9194-107.3792-2-15-						0-W08297	-5	-5	-5	29	-20	-15	12	-10	-15	2	39

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.5583-	107.0377-2-	11-		0-	W08244	43700	-0.05	454	9623	43	100	7.0	44	2.4	4	0.9	7324	10.9	15610	23	0.3
56-	43.5430-	107.0613-2-	11-		0-	W08245	43120	-0.05	1500	15820	78	-114	9.7	41	2.3	4	1.4	13880	7.4	14160	46	0.5
56-	43.5305-	107.0727-2-	11-		0-	W08246	39240	-0.04	393	94540	48	113	8.4	46	2.3	3	0.9	10870	8.6	12410	26	0.3
56-	43.5294-	107.0761-2-	12-		0-	W08247	47170	-0.05	442	53170	46	130	8.9	49	2.3	4	1.1	10150	8.4	13770	29	0.3
56-	43.5561-	107.0888-2-	11-		0-	W08248	60620	-0.07	580	9150	46	-65	8.5	49	4.2	4	0.9	14910	7.0	32720	31	0.4
56-	43.5400-	107.1100-2-	12-		0-	W08249	61580	-0.05	655	31340	67	-67	9.7	48	3.2	5	1.2	14620	7.5	34850	38	0.4
56-	43.5702-	107.0894-2-	11-		0-	W08250	48580	-0.05	450	51000	55	-67	8.7	52	3.2	3	1.0	11290	7.5	18670	31	0.3
56-	43.5716-	107.1150-2-	11-		0-	W08251	46650	-0.05	659	4032	82	99	10.2	39	2.4	6	1.2	9268	18.9	23140	35	0.5
56-	43.5950-	107.1044-2-	11-		0-	W08252	55900	-0.07	695	9388	88	-73	11.6	55	4.7	6	1.3	19050	12.5	29200	41	0.5
56-	43.7633-	107.1113-2-	11-		0-	W08253	57360	-0.05	571	6742	76	-70	8.1	51	2.5	5	1.2	15030	11.6	34250	35	0.5
56-	43.7844-	107.0527-2-	11-		0-	W08254	56610	-0.05	745	8334	72	-59	8.9	48	3.0	6	1.4	17350	11.9	33190	39	0.5
56-	43.7811-	107.1183-2-	11-		0-	W08255	54990	-0.07	691	8434	75	-80	11.8	48	3.2	5	1.1	13660	5.6	17100	32	0.4
56-	43.7938-	107.1033-2-	11-		0-	W08256	48700	-0.06	684	4656	58	-72	7.4	42	3.1	5	1.0	11610	11.9	18000	28	0.4
56-	43.8044-	107.1113-2-	11-		0-	W08257	38260	-0.04	641	3083	59	-65	5.8	35	2.3	5	1.1	5695	16.7	20500	36	0.4
56-	43.8238-	107.0888-2-	11-		0-	W08258	45600	-0.06	634	3914	113	132	13.6	76	2.8	7	2.4	14910	51.4	18660	55	0.9
56-	43.8133-	107.0488-2-12-			0-	W08259	55990	-0.05	821	5700	64	77	8.0	41	2.3	4	1.2	12520	8.1	19340	27	0.3
56-	43.8583-	107.0961-2-	11-		0-	W08260	54570	-0.06	733	5412	52	-76	8.9	34	3.2	4	1.1	15200	8.7	19900	31	0.3
56-	43.8402-	107.0738-2-	11-		0-	W08261	40400	-0.03	747	3509	41	-65	5.6	33	2.0	3	0.9	8341	10.3	22660	26	0.3
56-	43.8794-	107.1083-2-	11-		0-	W08262	44190	-0.05	450	44660	68	-69	9.2	51	1.9	4	1.1	12470	11.1	17450	38	0.3
56-	43.8838-	107.0800-2-14-			0-	W08263	55780	-0.05	619	14380	57	-70	7.9	50	2.7	5	1.0	10960	9.7	14540	31	0.3
56-	43.8977-	107.0766-2-	11-		0-	W08264	43840	-0.06	463	42070	40	104	6.8	47	1.9	3	0.8	9851	8.6	14510	27	0.2
56-	43.9083-	107.0283-2-12-			0-	W08265	54210	-0.04	741	22170	59	-83	8.1	56	2.3	3	0.9	12330	8.5	13220	32	0.3
56-	43.8138-	106.8361-2-	11-		0-	W08267	35970	-0.04	347	51300	32	-63	6.4	31	2.0	3	0.7	8653	5.9	14630	18	0.3
56-	43.8277-	106.8250-2-	11-		0-	W08270	40790	-0.04	355	64310	30	-72	7.1	28	1.7	3	0.8	8526	5.4	13930	18	0.2
56-	43.9872-	107.0366-2-14-			0-	W08271	48750	-0.07	375	28740	80	-63	7.1	47	3.5	6	1.4	13990	7.7	14180	42	0.3
56-	43.9788-	107.0594-2-14-			0-	W08272	49540	-0.04	512	6272	55	-79	8.8	58	2.4	4	0.9	11510	15.0	17630	32	0.4
56-	43.9805-	107.1194-2-11-			0-	W08273	29310	-0.04	436	9286	31	-50	5.4	32	1.3	2	0.7	5716	11.1	12190	18	0.3
56-	43.9783-	107.0838-2-14-			0-	W08274	37330	-0.04	443	69460	39	158	7.3	45	2.6	3	0.8	7326	5.9	12740	20	0.2
56-	43.9616-	107.0944-2-14-			0-	W08275	30170	-0.05	378	11200	23	79	4.0	18	-1.2	2	0.6	5045	9.5	10860	15	0.2
56-	43.9511-	107.0572-2-14-			0-	W08276	55060	-0.05	655	20360	61	120	8.5	61	2.4	4	1.0	12590	8.8	16790	32	0.4
56-	43.9555-	107.0327-2-11-			0-	W08277	17270	-0.13	2436	19700	-7	-203	71.3	-15	2.3	-2	-0.3	125300	-1.5	-10820	-8	-0.2
56-	43.9577-	107.0472-2-11-			0-	W08278	50140	-0.05	667	29670	51	140	7.8	44	2.8	4	1.0	10070	10.4	11280	24	0.4
56-	43.9283-	107.0911-2-11-			0-	W08279	42380	-0.06	667	12120	50	-74	7.0	41	-1.4	3	1.0	9604	8.1	22360	27	0.3
56-	43.9238-	107.0588-2-11-			0-	W08280	36130	-0.05	429	11350	37	144	8.4	39	1.9	2	1.0	9338	5.9	19440	22	0.2
56-	43.9127-	107.0516-2-11-			0-	W08281	46750	-0.05	581	16680	63	-65	8.4	46	2.1	4	1.2	12620	11.0	15960	31	0.3
56-	43.9044-	107.0338-2-11-			0-	W08282	48640	-0.05	625	18610	56	-66	8.1	47	1.6	4	1.1	10400	12.2	17230	32	0.4
56-	43.8972-	106.9875-2-11-			0-	W08283	45470	-0.06	590	18580	53	-74	7.4	42	-1.5	4	1.3	10430	11.5	14620	29	0.3
56-	43.8597-	106.9666-2-15-			0-	W08284	53990	-0.04	524	25200	54	-80	8.3	49	2.2	3	0.9	12050	5.5	15710	29	0.3
56-	43.8694-	106.9138-2-12-			0-	W08285	39690	-0.04	439	17240	51	-56	8.3	42	2.7	3	0.9	10070	11.2	13380	27	0.3
56-	43.8694-	106.9055-2-11-			0-	W08286	42950	-0.05	513	16770	53	-58	7.3	52	2.5	3	0.8	10950	10.7	14020	25	0.3
56-	43.8472-	106.9694-2-11-			0-	W08287	42060	-0.05	512	20100	44	73	8.3	45	2.3	3	0.8	8469	9.0	15610	27	0.3
56-	43.8333-	106.9638-2-11-			0-	W08288	33000	-0.06	389	34780	32	-67	6.5	38	-1.5	2	0.6	7682	5.9	11010	23	0.2
56-	43.8166-	106.9611-2-11-			0-	W08289	42610	-0.04	344	17440	43	94	6.6	41	2.3	3	0.9	9876	8.4	16120	27	0.3
56-	43.7791-	106.9250-2-15-			0-	W08290	47580	-0.04	504	5151	44	78	8.7	42	3.3	3	1.1	12380	5.9	17660	25	0.3
56-	43.7805-	106.9069-2-11-			0-	W08291	47370	-0.05	495	14440	51	-65	8.1	49	2.7	3	0.8	9704	8.1	16280	25	0.4
56-	43.6266-	107.0875-2-11-			0-	W08292	45820	-0.06	427	23750	47	-58	5.6	39	2.1	3	0.8	10700	7.1	26140	20	0.3
56-	43.9950-	107.3994-2-15-			0-	W08293	41790	-0.05	367	60720	36	-73	5.9	34	1.8	3	0.8	8953	7.1	14000	20	0.2
56-	43.9939-	107.3994-2-15-			0-	W08294	35070	-0.03	329	56460	29	-71	4.9	27	1.3	3	0.7	7192	6.7	12890	16	0.2
56-	43.9728-	107.3889-2-15-			0-	W08295	33440	-0.03	580	25340	44	-43	6.1	39	1.9	4	1.0	8306	13.4	9866	26	0.4
56-	43.9578-	107.3878-2-15-			0-	W08296	46340	-0.04	443	36940	41	154	7.3	40	2.3	4	0.9	10010	9.0	14890	24	0.4
56-	43.9194-	107.3792-2-15-			0-	W08297	51570	-0.06	515	23190	53	-67	7.8	48	3.1	4	1.0	13250	7.9	13370	31	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB. SAMPLE LOCATION NUMBER	Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	43.5583-	107.0377-2-11-			0-	W08244	11230	145	6183	-19	-2	3.9	3.6	-216	-1	-1	6.0	3085	54	2.8	78	0.417
56-	43.5430-	107.0613-2-11-			0-	W08245	18210	1557	7195	39	-1	5.7	5.6	-581	-1	-1	11.2	3088	76	3.5	59	0.357
56-	43.5305-	107.0727-2-11-			0-	W08246	13160	393	5637	29	-1	5.2	3.2	-266	-1	-1	7.8	2562	53	2.5	33	0.321
56-	43.5294-	107.0761-2-12-			0-	W08247	41990	391	7260	-19	-2	4.7	4.0	-274	-1	-1	7.4	2831	58	2.7	33	0.378
56-	43.5561-	107.0888-2-11-			0-	W08248	12560	356	4973	-28	-2	7.4	3.0	-278	-1	-1	9.3	3339	55	2.9	-41	0.280
56-	43.5400-	107.1100-2-12-			0-	W08249	21100	345	3692	55	-2	7.1	4.8	-306	-1	-1	11.8	3551	60	3.4	-27	0.280
56-	43.5702-	107.0894-2-11-			0-	W08250	4369	272	6585	33	-1	6.2	3.7	-236	-1	-1	10.4	3461	61	2.6	-30	0.231
56-	43.5716-	107.1150-2-11-			0-	W08251	5470	86	3065	-19	-1	4.5	6.7	281	-1	-1	13.3	4164	39	4.6	54	0.398
56-	43.5950-	107.1044-2-11-			0-	W08252	10470	915	3295	-30	-2	8.5	4.6	-404	-1	-1	12.9	3881	58	4.4	-48	0.388
56-	43.7633-	107.1113-2-11-			0-	W08253	10670	749	3702	52	-1	6.5	5.2	-389	-1	-1	11.1	3339	49	3.4	-26	0.342
56-	43.7844-	107.0527-2-11-			0-	W08254	10140	636	4306	72	-2	7.2	5.6	-308	-1	-1	11.8	2891	45	4.8	120	0.314
56-	43.7811-	107.1183-2-11-			0-	W08255	12090	445	6228	-28	-2	6.1	5.7	-352	-1	-1	8.8	4474	84	2.9	82	0.330
56-	43.7938-	107.1033-2-11-			0-	W08256	8070	429	6309	-27	-2	5.6	3.4	-313	-1	-1	9.3	3946	63	3.3	107	0.366
56-	43.8044-	107.1113-2-11-			0-	W08257	-2879	143	4388	35	-1	3.9	5.4	-240	-1	-1	13.4	3355	39	4.1	-25	0.291
56-	43.823R-	107.0888-2-11-			0-	W08258	7637	612	5868	45	-2	8.2	7.0	-311	-1	-1	20.4	8989	69	6.5	42	0.319
56-	43.8133-	107.0488-2-12-			0-	W08259	10280	469	6337	35	-1	5.4	4.1	-273	-1	-1	8.6	3655	71	2.8	47	0.360
56-	43.8583-	107.0961-2-11-			0-	W08260	9310	618	6028	57	-2	6.0	3.C	-352	-1	-1	8.5	4063	58	2.4	134	0.353
56-	43.8402-	107.073R-2-11-			0-	WC8261	6462	345	5272	32	-1	3.8	3.6	-271		-1	6.5	3259	47	2.3	39	0.415
56-	43.8794-	107.1083-2-11-			0-	W08262	34690	445	6428	-18	-1	6.0	4.4	-270	-1	-1	9.5	2992	59	3.5	48	0.295
56-	43.8838-	107.0800-2-14-			0-	W08263	14120	321	8571	30	-2	5.6	4.7	-251	-1	-1	8.5	3343	67	2.6	114	0.412
56-	43.8977-	107.0766-2-11-			0-	W08264	35360	426	6430	-24	-2	4.7	2.6	-307	-1	-1	7.2	2563	49	-1.4	-36	0.361
56-	43.9093-	107.0283-2-12-			0-	W08265	19020	508	8181	-16	-1	5.7	3.5	-331	-1	-1	8.7	3217	65	3.0	59	0.333
56-	43.8138-	106.8361-2-11-			0-	W08267	16810	258	7948	21	-1	4.6	2.8	454	-1	-1	5.9	2409	39	2.7	48	0.305
56-	43.8277-	106.8250-2-11-			0-	W08270	22390	309	8700	-17	-1	4.4	3.1	662	-1	-1	5.8	2417	40	1.9	44	0.310
56-	43.9872-	107.0366-2-14-			0-	W08271	26750	336	4278	-27	-2	6.6	5.5	-281	-1	-1	7.8	3227	61	3.6	-43	0.308
56-	43.9788-	107.0594-2-14-			0-	W08272	9702	544	6697	37	-1	5.5	4.0	-341	-1	-1	8.8	3733	76	2.7	56	0.477
56-	43.9805-	107.1194-2-11-			0-	W08273	11140	103	5368	-14	-1	3.3	2.1	-167	-1	1	5.3	1854	33	2.5	21	0.377
56-	43.9783-	107.0838-2-14-			0-	W08274	61550	365	5161	-17	-1	3.8	2.6	-254	-1	-1	6.5	2301	52	1.8	-33	0.354
56-	43.9616-	107.0944-2-14-			0-	W08275	11250	99	5374	-18	-1	2.7	0.9	-196	-1	-1	3.4	1936	29	-1.2	-44	0.588
56-	43.9511-	107.0572-2-14-			0-	W08276	21830	375	8711	50	-1	5.9	4.0	-335	-1	-1	9.0	3417	78	3.0	79	0.344
56-	43.9555-	107.0327-2-11-			0-	W08277	-9794	4846	1626	51	-4	2.3	1.3		-1	-1	3.3	-2585	58	-2.7	-68	0.242
56-	43.9577-	107.0472-2-11-			0-	W08278	31610	262	7392	26	-2	5.1	3.7	379	-1	-1	8.2	2682	56	3.0	-31	0.329
56-	43.9283-	107.0911-2-11-			0-	W08279	10870	606	5692	-23	-2	4.3	2.9	-343	-1	-1	7.8	2596	52	2.9	-46	0.333
56-	43.9238-	107.0588-2-11-			0-	W08280	14330	1035	4917	-19	-1	3.8	2.5	-536	-1	-1	6.7	2085	49	2.8	71	0.328
56-	43.9127-	107.0516-2-11-			0-	W08281	19310	381	6788	47	-1	5.9	4.1	-257	-1	1	9.1	3152	63	3.8	48	0.308
56-	43.9044-	107.0338-2-11-			0-	W08282	18560	408	7003	28	-1	5.0	3.7	-259	-1	-1	8.3	2911	67	3.0	48	0.349
56-	43.8972-	106.9875-2-11-			0-	W08283	15850	396	7610	36	-2	5.0	2.5	-294	-1	-1	7.2	3299	58	2.9	-42	0.403
56-	43.8597-	106.9666-2-15-			0-	W08284	17190	516	6667	34	-1	5.8	3.5	-340	-1	-1	7.1	3294	68	2.0	192	0.352
56-	43.8694-	106.9138-2-12-			0-	W08285	16760	212	5898	36	-1	5.2	3.4	-204	-1	-1	7.6	2499	53	2.5	-30	0.316
56-	43.8694-	106.9055-2-11-			0-	W08286	17320	243	5983	42	-2	5.5	3.7	-213	-1	-1	8.1	2458	60	2.8	-34	0.309
56-	43.8472-	106.9694-2-11-			0-	W08287	19550	251	6089	-16	-1	4.3	2.9	-224	-1	-1	6.4	2667	55	2.3	-28	0.391
56-	43.8333-	106.9638-2-11-			0-	W08288	23550	226	4368	-24	-2	3.8	1.8	-276	-1	-1	5.3	2098	40	-1.6	-39	0.377
56-	43.8166-	106.9611-2-11-			0-	W08289	20090	366	5554	37	-1	4.7	2.7	-293	-1	-1	7.0	3063	53	3.0	64	0.357
56-	43.7791-	106.9250-2-15-			0-	W08290	9216	351	5260	-18	-1	6.0	3.4	-242	-1	-1	7.3	2661	59	2.8	71	0.315
56-	43.7805-	106.9069-2-11-			0-	W08291	18250	389	5994	39	-1	4.9	3.6	-255	-1	-1	8.1	3077	60	2.3	65	0.309
56-	43.6266-	107.0875-2-11-			0-	W08292	23550	351	4143	33	-2	4.9	3.0	-259	-1	-1	7.7	2466	53	2.1	23	0.312
56-	43.9950-	107.3994-2-15-			0-	W08293	22350	313	9484	37	-1	4.8	2.3	410	-1	-1	5.1	2622	38	2.5	-33	0.471
56-	43.9939-	107.3994-2-15-			0-	W08294	21770	302	7551	22	-1	3.6	2.5	-249			4.0	2723	33	2.0	33	0.525
56-	43.9728-	107.3889-2-15-			0-	W08295	12360	199	3816	-13	-1	4.9	3.8	311	-1	-1	7.1	2645	40	2.9	66	0.394
56-	43.9578-	107.3878-2-15-			0-	W08296	22820	416	6574	-16	-1	5.0	3.4	-241	-1	-1	6.9	3184	53	2.3	62	0.420
56-	43.9194-	107.3792-2-15-			0-	W08297	17240	415	5721	-24	-2	7.0	3.6	-280	-1	-1	7.8	3450	69	2.9	-38	0.449

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.8833-107.3722-2-15-						0-W08298-07/02/76-15-			24-		-C-					10	1	7	5	4	-	1	-	3	4	4	3	3	-	-1-	-	-	-	-	2.40
56-43.8594-107.3589-2-15-						0-W08299-07/02/76-16-			22-		-	-	-	-	-	4	1	4	5	4	-	1	-	3	4	2	4	3	-	-1-	-	-	-	-	2.60
56-43.8067-107.3611-2-12-						0-W08300-08/07/76-10-			33	18.5	-	-	6.8	2400	-	12	1	4	4	4	2	3	1	2	4	3	2	1	-	-1-	-	-	-	-	3.00
56-43.5294-107.6153-2-11-						0-W08301-08/07/76-11-			34	14.0	-	-	6.1	400	-	9	1	7	6	8	2	-	1	-	3	3	3	1	-	-1-	-	-	-	-	2.70
56-43.5367-107.6067-2-11-						0-W08302-08/07/76-11-			34	12.0	-	-	6.3	350	-	12	1	7	4	6	2	-	1	-	3	2	3	1	-	-1-	-	-	-	-	2.40
56-43.5342-107.5783-2-12-						0-W08303-08/07/76-12-			36	18.0	-	-	6.5	500	-	9	1	7	4	8	2	3	1	2	4	2	2	1	-	-1-	-	-	-	-	2.70
56-43.5061-107.6025-2-11-						0-W08304-08/07/76-12-			34	12.0	-	-	7.0	800	-	16	1	7	6	8	2	3	1	-	3	3	3	1	-	-1-	-	-	-	-	7.10
56-43.5128-107.5903-2-11-						0-W08305-08/07/76-12-			34	11.0	-	-	6.5	500	-	11	1	7	5	6	2	3	1	-	3	3	3	1	-	-1-	-	-	-	-	3.70
56-43.5222-107.5800-2-15-						0-W08306-08/07/76-12-			34	-	-	-	-	-	-	12	1	7	4	5	-	-	-	-	3	3	3	1	-	-1-	-	-	-	-	1.80
56-43.5394-107.5417-2-15-						0-W08307-08/07/76-13-			34	-	-	-	-	-	-	12	1	7	5	6	-	-	-	2	4	3	2	1	-	-1-	-	-	-	-	2.70
56-43.5397-107.5428-2-15-						0-W08308-08/07/76-13-			34	-	-	-	-	-	-	14	1	7	6	8	-	-	-	2	4	3	2	1	-	-1-	-	-	-	-	3.10
56-43.5472-107.5133-2-12-						0-W08310-08/07/76-13-			34	18.0	-	-	6.9	500	-	3	1	7	5	6	2	3	2	2	3	3	2	1	-	-1-	-	-	-	-	2.20
56-43.5519-107.4969-2-14-						0-W08311-08/07/76-13-			34	21.0	-	-	6.9	500	-	8	1	7	7	7	1	3	1	-	4	3	2	1	-	-1-	-	-	-	-	2.00
56-43.5628-107.4725-2-12-						0-W08312-08/07/76-13-			34	22.0	-	-	6.6	210	-	16	1	7	5	6	2	3	1	2	4	3	3	1	-	-1-	-	-	-	-	3.10
56-43.5953-107.4736-2-11-						0-W08313-08/07/76-14-			34	20.5	-	-	6.9	1100	-	12	1	7	5	6	2	2	2	-	4	2	2	1	-	-1-	-	-	-	-	5.00
56-43.6286-107.5044-2-15-						0-W08315-08/07/76-14-			35-		-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	3	2	1	-	-1-	-	-	-	-	3.50
56-43.6286-107.5069-2-15-						0-W08316-08/07/76-14-			35-		-	-	-	-	-	8	1	7	4	6	-	-	-	2	3	2	2	1	-	-1-	-	-	-	-	2.70
56-43.6261-107.5164-2-15-						0-W08317-08/07/76-15-			34-		-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	4	2	1	-	-1-	-	-	-	-	3.60
56-43.6253-107.5156-2-15-						0-W08318-08/07/76-15-			34-		-	-	-	-	-	16	1	7	4	6	-	-	-	2	3	3	3	1	-	-1-	-	-	-	-	3.10
56-43.6486-107.5406-2-15-						0-W08319-08/07/76-15-			34-		-	-	-	-	-	8	1	7	4	6	-	-	-	2	3	3	2	1	-	-1-	-	-	-	-	2.70
56-43.7114-107.5194-2-15-						0-W08321-08/07/76-16-			32-		-	-	-	-	-	4	1	7	4	6	-	-	-	2	3	2	2	1	-	-1-	-	-	-	-	3.60
56-43.7206-107.5519-2-15-						0-W08322-08/07/76-16-			32-		-	-	-	-	-	12	1	7	5	6	-	-	-	2	3	4	2	1	-	-1-	-	-	-	-	3.30
56-43.6583-107.5756-2-15-						0-W08324-08/07/76-17-			32-		-C-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	3	3	1	-	-1-	9	-	-	-	3.60
56-43.6783-107.4989-2-15-						0-W08325-08/07/76-17-			32-		-	-	-	-	-	9	1	7	4	6	-	-	-	2	4	3	2	1	-	-1-	-	-	-	-	4.60
56-43.6897-107.4772-2-15-						0-W08327-08/07/76-17-			30-		-	-	-	-	-	26	1	7	4	6	-	-	-	2	3	3	2	1	-	-1-	-	-	-	-	3.80
56-43.6828-107.4597-2-11-						0-W08328-08/07/76-18-			30	12.0	-	-	6.4	400	-	9	1	7	6	8	2	-	1	-	2	3	2	1	-	-1-	-	-	-	-	3.10
56-43.7006-107.4500-2-15-						0-W08329-08/07/76-18-			30-		-	-	-	-	-	6	1	7	4	6	-	-	-	2	3	3	3	1	-	-1-	-	-	-	-	3.10
56-43.5897-107.4400-2-15-						0-W08330-08/07/76-18-			30-		-	-	-	-	-	9	1	7	4	6	-	-	-	-	4	4	3	1	-	-1-	-	-	-	-	2.10
56-43.5033-107.4425-2-15-						0-W08331-08/08/76- 7-			15-		-	-	-	-	-	9	1	7	4	6	-	-	-	2	3	2	3	1	-	-1-	-	-	-	-	3.30
56-43.5117-107.4086-2-11-						0-W08332-08/08/76- 8-			16	8.0	-	-	6.6	285	-	16	1	7	-	-	3	3	1	-	3	3	3	1	-	-1-	-	-	-	-	3.90
56-43.5011-107.3914-2-11-						0-W08333-08/08/76- 8-			16	9.0	-	-	6.3	270	-	16	1	7	-	-	3	3	1	-	3	3	3	1	-	-1-	-	-	-	-	4.20
56-43.5325-107.3847-2-11-						0-W08334-08/08/76- 8-			16	8.0	-	-	6.6	330	-	6	1	7	5	6	3	3	1	-	3	3	3	1	-	-1-	-	-	-	-	3.00
56-43.6028-107.4106-2-15-						0-W08335-08/08/76- 9-			18-		-	-	-	-	-	14	1	7	4	6	-	-	-	2	3	3	3	1	-	-1-	-	-	-	-	2.70
56-43.6342-107.4008-2-15-						0-W08336-08/08/76- 9-			18-		-	-	-	-	-	9	1	7	4	7	-	-	-	-	4	2	3	1	-	-1-	-	-	-	-	4.20
56-43.6378-107.3917-2-12-						0-W08337-08/08/76- 9-			26	13.0	-	-	7.1	300	-	6	1	7	4	6	2	3	1	2	2	3	2	1	-	-1-	-	-	-	-	2.50
56-43.6644-107.3272-2-15-						0-W08338-08/08/76- 9-			26-		-C-	-	-	-	-	9	1	7	4	4	-	-	-	2	3	3	2	1	-	-1-	-	-	-	-	2.40
56-43.6694-107.3261-2-12-						0-W08339-08/08/76-10-			30	15.0	-	-	6.9	650	-	11	1	7	4	4	2	3	1	2	3	3	2	1	-	-1-	-	-	-	-	2.40
56-43.6808-107.3069-2-12-						0-W08340-08/08/76-10-			30	18.0	-	-	6.9	1600	-	17	1	7	6	8	2	3	1	2	4	3	2	1	-	-1-	-	-	-	-	2.40
56-43.6756-107.3022-2-15-						0-W08341-08/08/76-10-			30-		-	-	-	-	-	7	1	7	4	4	-	-	-	2	3	3	2	1	-	-1-	-	-	-	-	2.60
56-43.6742-107.3028-2-12-						0-W08342-08/08/76-10-			30	13.0	-	-	6.9	500	-	8	1	7	4	6	2	3	1	2	2	3	2	1	-	-1-	-	-	-	-	2.40
56-43.6597-107.2561-2-15-						0-W08343-08/08/76-11-			30-		-C-	-	-	-	-	8	1	7	4	6	-	-	-	2	3	2	3	1	-	-1-	-	-	-	-	3.60
56-43.5478-107.4208-2-12-						0-W08345-08/08/76- 7-			15	9.0	-	-	6.9	260	-	16	1	7	-	-	3	3	1	1	3	3	3	1	-	-1-	-	-	-	-	3.30
56-43.9156-107.9736-2-15-						0-W08349-08/06/76-14-			33-		-	-	-	-	-	7	1	6	6	8	-	1	-	-	4	3	3	1	-	-1-	-	-	-	-	2.80
56-43.9136-107.9722-2-15-						0-W08350-08/06/76-14-			34-		-	-	-	-	-	9	1	1	4	6	-	1	-	-	4	3	3	1	-	-1-	-	-	-	-	3.00
56-43.9522-107.9475-2-15-						0-W08351-08/06/76-15-			34-		-	-	-	-	-	9	1	1	5	6	-	1	-	-	4	3	1	1	-	-1-	-	-	-	-	3.30
56-43.9617-107.9322-2-15-						0-W08352-08/06/76-15-			34-		-	-	-	-	-	15	1	1	4	6	-	1	-	-	4	2	2	1	-	-1-	-	-	-	-	2.10
56-43.9806-107.9117-2-15-						0-W08353-08/06/76-15-			34-		-	-	-	-	-	9	1	6	5	6	-	-	-	-	4	3	2	1	-	-1-	-	-	-	-	3.10
56-43.9909-107.8778-2-15-						0-W08356-08/06/76-16-			32-		-	-	-	-	-	10	1	1	4	6	-	1	-	-	4	3	2	1	-	-1-	-	-	-	-	3.50
56-43.9444-107.8092-2-15-						0-W08358-08/06/76-18-			29-		-C-	-	-	-	-	10	1	9	5	6	-	1	-	-	4	2	4	1	-	-1-	-	-	-	-	2.60
56-43.9467-107.8100-2-15-						0-W08359-08/06/76-18-			29-		-C-	-	-	-	-	12	1	9	5	6	-	1	-	-	4	2	4	1	-	-1-	-	-	-	-	2.80
56-43.9217-107.7750-2-15-						0-W08360-08/06/76-18-			30-		-	-	-	-	-	9	1	1	5	6	-	1	-	-	4	2	3	1	-	-1-	-	-	-	-	3.00

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.8833-107.3722-2-15-					0	-WO8298	-5	-5	-5	14	-20	-15	6	-10	-15	1	34
56-43.8594-107.3589-2-15-					0	-WO8299	-5	-5	-5	26	-20	30	-5	-10	-15	2	30
56-43.8067-107.3611-2-12-					0	-WO8300	-5	6	-5	20	-20	31	10	-10	-15	2	77
56-43.5294-107.6153-2-11-					0	-WO8301	-5	-5	-5	24	-20	18	6	-10	-15	1	80
56-43.5367-107.6067-2-11-					0	-WO8302	-5	-5	-5	26	-20	25	9	-10	-15	2	92
56-43.5342-107.5783-2-12-					0	-WO8303	-5	-5	-5	27	-20	16	8	-10	-15	2	67
56-43.5061-107.6025-2-11-					0	-WO8304	-5	-5	-5	28	-20	-15	-5	-10	-15	2	25
56-43.5128-107.5903-2-11-					0	-WO8305	-5	-5	-5	20	-20	-15	10	-10	-15	1	28
56-43.5222-107.5800-2-15-					0	-WO8306	-5	-5	-5	34	-20	32	16	-10	-15	2	48
56-43.5394-107.5417-2-15-					0	-WO8307	-5	-5	-5	25	-20	16	-5	-10	-15	2	42
56-43.5397-107.5428-2-15-					0	-WO8308	-5	-5	-5	18	-20	-15	11	-10	-15	2	34
56-43.5472-107.5133-2-12-					0	-WO8310	-5	-5	-5	19	-20	-15	6	-10	-15	2	34
56-43.5519-107.4969-2-14-					0	-WO8311	-5	-5	-5	19	-20	-15	-5	-10	-15	1	24
56-43.5628-107.4725-2-12-					0	-WO8312	-5	-5	-5	26	-20	-15	7	-10	-15	2	35
56-43.5953-107.4736-2-11-					0	-WO8313	-5	-5	-5	16	-20	-15	9	-10	-15	2	28
56-43.6286-107.5044-2-15-					0	-WO8315	-5	-5	-5	-10	-20	-15	5	-10	-15	2	27
56-43.6286-107.5069-2-15-					0	-WO8316	-5	-5	-5	13	-20	-15	5	-10	-15	2	24
56-43.6261-107.5164-2-15-					0	-WO8317	-5	-5	-5	16	-20	-15	11	-10	-15	2	45
56-43.6253-107.5156-2-15-					0	-WO8318	-5	-5	-5	17	-20	-15	7	-10	-15	2	26
56-43.6486-107.5406-2-15-					0	-WO8319	-5	-5	-5	11	-20	-15	-5	-10	-15	2	24
56-43.7114-107.5194-2-15-					0	-WO8321	-5	-5	-5	30	-20	29	15	-10	-15	2	64
56-43.7206-107.5519-2-15-					0	-WO8322	-5	-5	-5	32	-20	28	14	-10	-15	2	55
56-43.6583-107.5756-2-15-					0	-WO8324	-5	-5	-5	27	-20	32	24	-10	-15	2	73
56-43.6783-107.4989-2-15-					0	-WO8325	-5	-5	-5	18	-20	16	5	-10	-15	2	32
56-43.6897-107.4722-2-15-					0	-WO8327	-5	-5	-5	15	-20	-15	-5	-10	-15	2	28
56-43.6828-107.4597-2-11-					0	-WO8328	-5	-5	-5	13	-20	-15	15	-10	-15	2	28
56-43.7006-107.4500-2-15-					0	-WO8329	-5	-5	-5	16	-20	-15	9	-10	-15	1	24
56-43.5897-107.4400-2-15-					0	-WO8330	-5	-5	-5	19	-20	-15	8	-10	-15	2	27
56-43.5033-107.4425-2-15-					0	-WO8331	-5	-5	-5	16	-20	15	13	-10	-15	2	28
56-43.5117-107.4086-2-11-					0	-WO8332	-5	-5	-5	12	-20	19	5	-10	-15	2	27
56-43.5011-107.3914-2-11-					0	-WO8333	-5	-5	-5	15	-20	22	5	-10	-15	2	25
56-43.5325-107.3847-2-11-					0	-WO8334	-5	-5	-5	18	-20	21	11	-10	-15	2	39
56-43.6028-107.4106-2-15-					0	-WO8335	-5	-5	-5	11	-20	-15	8	12	-15	1	49
56-43.6342-107.4008-2-15-					0	-WO8336	-5	-5	-5	26	-20	15	13	-10	-15	2	52
56-43.6378-107.3917-2-12-					0	-WO8337	-5	-5	-5	-10	-20	19	-5	-10	-15	1	17
56-43.6644-107.3272-2-15-					0	-WO8338	-5	-5	-5	20	-20	18	9	-10	-15	2	39
56-43.6694-107.3261-2-12-					0	-WO8339	-5	-5	-5	17	-20	-15	8	-10	-15	-1	26
56-43.6808-107.3069-2-12-					0	-WO8340	-5	-5	-5	22	-20	21	5	-10	-15	2	39
56-43.6756-107.3022-2-15-					0	-WO8341	-5	-5	-5	25	-20	-15	8	-10	-15	1	48
56-43.6742-107.3028-2-12-					0	-WO8342	-5	-5	-5	16	-20	-15	-5	-10	-15	-1	29
56-43.6597-107.2561-2-15-					0	-WO8343	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	85
56-43.5478-107.4208-2-12-					0	-WO8345	-5	-5	-5	26	-20	-15	7	-10	-15	2	31
56-43.9156-107.9736-2-15-					0	-WO8349	-5	-5	-5	17	-20	17	10	-10	-15	2	25
56-43.9136-107.9722-2-15-					0	-WO8350	-5	-5	-5	18	-20	20	9	-10	-15	-1	20
56-43.9522-107.9475-2-15-					0	-WO8351	-5	-5	-5	17	-20	-15	7	-10	15	2	17
56-43.9617-107.9222-2-15-					0	-WO8352	-5	5	-5	11	-20	-15	6	-10	-15	1	10
56-43.9806-107.9117-2-15-					0	-WO8353	-5	-5	-5	17	-20	-15	6	-10	-15	1	15
56-43.9908-107.8778-2-15-					0	-WO8356	-5	-5	-5	16	-20	-15	15	-10	-15	2	31
56-43.9444-107.8092-2-15-					0	-WO8358	-5	-5	-5	17	-20	-15	10	-10	-15	2	21
56-43.9467-107.8100-2-15-					0	-WO8359	-5	-5	-5	11	-20	-15	7	-10	-15	2	19
56-43.9217-107.7750-2-15-					0	-WO8360	-5	5	-5	-10	-20	-15	14	-10	-15	1	12

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.8833-107.3722-2-15-						0-W08298	38910	-0.04	397	40170	42	240	6.3	37	2.3	3	0.9	8844	8.8	14100	22	0.3
56-43.8594-107.3589-2-15-						0-W08299	43840	-0.04	518	31690	45	-52	6.9	34	2.0	4	0.8	8502	9.4	13520	25	0.4
56-43.8067-107.3611-2-12-						0-W08300	56480	-0.06	331	49920	37	-89	9.6	43	3.5	4	1.0	14920	4.8	18330	29	0.4
56-43.5294-107.6153-2-11-						0-W08301	56100	-0.04	1032	61120	54	-90	6.9	45	1.9	2	0.9	10230	6.6	27510	32	0.2
56-43.5367-107.6067-2-11-						0-W08302	55840	-0.04	1004	57020	72	-74	9.4	45	2.4	2	1.1	13350	4.7	25260	32	0.2
56-43.5342-107.5783-2-12-						0-W08303	63780	-0.05	1369	56100	62	-84	8.5	40	1.9	3	1.2	10380	7.9	27290	34	0.2
56-43.5061-107.6025-2-11-						0-W08304	61540	-0.07	934	30770	49	105	8.9	48	3.4	3	1.1	14390	3.5	20720	33	-0.2
56-43.5128-107.5903-2-11-						0-W08305	64310	-0.04	1077	23050	53	138	6.7	49	4.2	2	0.7	11240	5.3	32030	33	0.2
56-43.5222-107.5800-2-15-						0-W08306	85070	-0.05	1252	19490	80	-71	13.1	61	4.7	3	1.3	21980	5.0	29310	45	0.2
56-43.5394-107.5417-2-15-						0-W08307	54250	-0.04	708	27980	52	-60	7.9	42	3.0	4	1.0	10030	8.3	14870	28	0.3
56-43.5397-107.5428-2-15-						0-W08308	49610	-0.05	1039	47620	47	-75	6.9	43	2.5	3	1.4	11890	8.3	18070	28	0.3
56-43.5472-107.5133-2-12-						0-W08310	47620	-0.03	747	43420	40	-78	5.5	35	1.5	2	0.8	8205	5.5	18990	22	0.2
56-43.5519-107.4969-2-14-						0-W08311	36940	-0.03	543	57290	33	-50	6.5	32	2.5	3	0.9	9561	6.1	13650	23	0.3
56-43.5628-107.4725-2-12-						0-W08312	50470	-0.04	552	27790	51	-58	7.2	44	2.4	5	1.0	9321	10.9	20270	29	0.3
56-43.5953-107.4736-2-11-						0-W08313	50780	-0.05	543	7852	51	-60	5.5	22	3.0	4	1.0	9993	6.2	15220	30	0.3
56-43.6286-107.5044-2-15-						0-W08315	44340	-0.03	651	7131	49	-69	4.3	25	2.5	3	0.9	5980	5.3	15840	30	0.2
56-43.6286-107.5069-2-15-						0-W08316	35390	-0.03	599	11100	45	-49	4.5	22	1.8	3	0.9	5378	8.5	14460	31	0.3
56-43.6261-107.5164-2-15-						0-W08317	54660	-0.04	643	15790	52	-59	6.3	30	2.9	4	1.0	8724	5.2	16320	30	0.3
56-43.6253-107.5156-2-15-						0-W08318	44580	-0.04	710	11340	44	-64	3.9	26	2.4	3	0.8	6789	6.0	13260	29	0.2
56-43.6486-107.5406-2-15-						0-W08319	40020	-0.03	579	8757	44	-60	3.1	19	1.5	2	0.8	4985	7.5	11090	27	0.2
56-43.7114-107.5194-2-15-						0-W08321	67330	-0.05	753	17080	62	-56	10.8	70	5.7	4	1.1	18150	4.4	17840	34	0.3
56-43.7206-107.5519-2-15-						0-W08322	59110	-0.07	839	28190	52	-69	8.1	53	3.7	4	0.8	13250	5.4	17430	32	0.2
56-43.6583-107.5756-2-15-						0-W08324	66420	-0.05	707	43270	46	160	7.5	46	4.8	4	0.9	13530	3.6	17990	30	0.3
56-43.6783-107.4989-2-15-						0-W08325	52470	-0.04	673	10570	63	-60	7.2	34	4.5	4	0.9	10200	7.2	15930	36	0.3
56-43.6897-107.4722-2-15-						0-W08327	43030	-0.03	730	8403	57	-54	4.7	24	1.7	4	1.0	5650	10.2	14440	34	0.3
56-43.6828-107.4597-2-11-						0-W08328	46170	-0.05	960	10430	48	61	5.3	29	1.9	4	1.0	8382	9.0	14810	29	0.3
56-43.7006-107.4500-2-15-						0-W08329	47050	-0.04	584	6817	47	-51	3.6	16	1.9	3	0.9	7690	3.8	13070	28	0.3
56-43.5897-107.4400-2-15-						0-W08330	38350	-0.03	448	36310	31	-69	4.9	25	1.6	3	0.7	7063	6.6	13900	15	0.3
56-43.5033-107.4425-2-15-						0-W08331	58740	-0.04	714	21740	49	-75	7.9	32	2.7	2	0.9	11540	5.8	16940	32	0.3
56-43.5117-107.4086-2-11-						0-W08332	48580	-0.05	700	24500	85	-52	8.8	53	2.5	5	1.6	14680	16.6	28300	39	0.7
56-43.5011-107.3914-2-11-						0-W08333	52630	-0.05	717	17900	55	-59	5.8	33	-1.4	5	1.2	12000	9.6	26850	33	0.4
56-43.5325-107.3847-2-11-						0-W08334	54390	-0.04	732	14010	62	-73	7.9	51	2.6	4	0.9	12110	8.8	14410	32	0.4
56-43.6028-107.4106-2-15-						0-W08335	38860	-0.03	357	62680	36	75	7.2	37	1.9	3	0.8	9031	7.0	15220	21	0.3
56-43.6342-107.4008-2-15-						0-W08336	60200	-0.06	542	22520	71	-63	12.3	49	5.0	4	1.2	18020	5.8	15570	35	0.4
56-43.6378-107.3917-2-12-						0-W08337	31740	-0.04	336	25400	25	-51	5.3	41	-1.1	3	0.6	8880	12.1	9484	16	0.3
56-43.6644-107.3272-2-15-						0-W08338	41740	-0.04	397	60900	41	-70	6.1	47	2.1	4	0.7	9891	6.7	16470	24	0.3
56-43.6694-107.3261-2-12-						0-W08339	26290	-0.03	269	48140	29	-54	4.6	26	1.4	2	0.6	5872	7.9	9165	14	0.2
56-43.6808-107.3069-2-12-						0-W08340	44780	-0.05	379	52420	34	-71	6.7	32	2.3	4	0.8	10160	4.1	14340	15	0.2
56-43.6755-107.3022-2-15-						0-W08341	35260	-0.03	288	83080	41	-59	5.0	47	1.7	4	0.7	8415	7.7	16120	20	0.3
56-43.6742-107.3028-2-12-						0-W08342	30550	-0.03	311	59200	27	-58	5.6	35	1.9	3	0.6	6384	6.4	13300	15	0.2
56-43.6597-107.2561-2-15-						0-W08343	54880	-0.05	341	42370	69	-48	6.7	74	5.1	4	1.0	11860	9.8	27940	33	0.5
56-43.5478-107.4208-2-12-						0-W08345	50040	-0.05	733	26940	54	-58	5.9	43	-1.4	5	1.2	11810	10.0	28010	29	0.4
56-43.9156-107.9736-2-15-						0-W08349	48400	-0.03	633	23100	46	-58	7.4	46	2.5	3	0.9	10390	6.8	12870	28	0.3
56-43.9136-107.9722-2-15-						0-W08350	40530	-0.03	611	5842	36	146	5.4	30	2.0	4	0.8	7450	6.7	15180	24	0.3
56-43.9522-107.9475-2-15-						0-W08351	41040	-0.04	672	9497	62	395	7.1	45	3.1	3	1.0	10730	12.0	12100	35	0.4
56-43.9617-107.9322-2-15-						0-W08352	22600	-0.03	386	1956	32	34	3.7	19	1.4	3	0.6	4067	6.9	9356	17	0.2
56-43.9806-107.9117-2-15-						0-W08353	36510	-0.03	713	2851	48	-31	5.2	31	2.1	4	0.8	7111	9.3	12740	25	0.4
56-43.9908-107.8778-2-15-						0-W08356	62940	-0.10	607	10340	69	-56	9.2	64	4.6	4	1.0	15690	7.0	18640	41	0.4
56-43.9444-107.8092-2-15-						0-W08358	38100	-0.04	558	3079	56	51	6.4	35	3.1	4	0.9	8321	8.1	14120	29	0.3
56-43.9467-107.8100-2-15-						0-W08359	35520	-0.04	550	3788	42	-39	4.5	29	2.1	3	0.9	6489	7.4	12240	24	0.3
56-43.9217-107.7750-2-15-						0-W08360	26820	-0.03	661	2375	46	-31	3.8	28	1.5	3	0.8	6216	13.6	10250	28	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.8833-107.3722-2-15-					0-	W08298	24440	305	7818	30	-1	4.8	3.3	-226	-1	-1	6.3	2808	45	2.0	35	0.381
56-43.8594-107.3589-2-15-					0-	W08299	17950	290	5624	34	-1	4.6	3.6	-198	-1	-1	6.3	2937	51	2.6	46	0.413
56-43.8067-107.3611-2-12-					0-	W08300	31710	477	10200	51	-2	7.7	3.0	-324	-1	-1	6.4	3388	67	2.2	-40	0.469
56-43.5294-107.6153-2-11-					0-	W08301	26220	432	8581	28	-1	4.5	2.9	757	-1	-1	7.6	2387	58	1.5	61	0.355
56-43.5367-107.6067-2-11-					0-	W08302	30780	516	7099	45	-1	5.7	3.5	884	-1	-1	8.9	2387	59	1.7	-64	0.270
56-43.5342-107.5783-2-12-					0-	W08303	22610	433	11210	28	-1	4.4	3.7	1059	-1	-1	8.0	3003	56	1.6	-19	0.338
56-43.5061-107.6025-2-11-					0-	W08304	14370	249	5955	-29	-2	5.9	2.5	582	-1	-1	7.0	2882	54	2.0	-43	1.014
56-43.5128-107.5903-2-11-					0-	W08305	14450	228	9633	47	-1	4.5	2.9	694	-1	-1	6.5	2899	58	1.4	78	0.569
56-43.5222-107.5800-2-15-					0-	W08306	20360	180	12130	60	-1	7.7	4.5	922	-1	-1	10.5	3869	73	2.1	104	0.171
56-43.5394-107.5417-2-15-					0-	W08307	18880	329	6778	30	-1	4.9	3.6	324	-1	-1	7.5	3643	55	2.3	35	0.360
56-43.5397-107.5428-2-15-					0-	W08308	18840	502	6819	-21	-2	5.5	2.6	487	-1	-1	7.0	3196	44	2.6	-43	0.443
56-43.5472-107.5133-2-12-					0-	W08310	18530	319	7614	31	-1	4.2	2.7	461		-1	6.4	2693	43	2.1	61	0.344
56-43.5519-107.4969-2-14-					0-	W08311	14310	261	3938	30	-1	4.7	3.3	332	-1	-1	5.0	2123	50	2.2	53	0.400
56-43.5628-107.4725-2-12-					0-	W08312	20280	245	7011	23	-1	4.8	4.0	-206	-1	-1	8.4	3313	50	3.6	58	0.369
56-43.5953-107.4736-2-11-					0-	W08313	7722	277	4919	-20	-2	4.4	3.3	-238	-1	-1	10.7	2344	51	2.7	-39	0.467
56-43.6286-107.5044-2-15-					0-	W08315	5742	251	7665	36	-1	3.0	4.1	-238	1	1	10.4	1484	39	2.5	-10	0.337
56-43.6286-107.5069-2-15-					0-	W08316	5227	121	7352	28	-1	2.7	3.2	722			7.4	1696	37	2.2	49	0.365
56-43.6761-107.5164-2-15-					0-	W08317	10600	197	8364	-14	-1	3.9	3.8	-189	-1	-1	9.0	2366	69	1.6	60	0.400
56-43.6253-107.5156-2-15-					0-	W08318	6644	196	8505	-17	-1	3.2	3.5	425	-1	-1	9.4	2298	42	2.0	-30	0.330
56-43.6486-107.5406-2-15-					0-	W08319	4945	89	9066	26	-1	2.5	3.1	253		1	7.4	1837	34	2.0	28	0.365
56-43.7114-107.5194-2-15-					0-	W08321	20130	324	4513	70	-2	9.7	4.4	-247	-1	-1	11.2	4110	176	2.8	114	0.321
56-43.7206-107.5519-2-15-					0-	W08322	24340	279	5836	51	-2	7.0	3.5	-275	-1	-1	8.7	4134	127	2.2	-46	0.379
56-43.6583-107.5756-2-15-					0-	W08324	28450	241	5394	54	-2	6.7	3.1	-296	-1	-1	7.4	2923	153	2.4	80	0.486
56-43.6783-107.4989-2-15-					0-	W08325	6938	309	7381	48	-1	4.9	4.1	292	-1	-1	11.5	2569	58	3.0	46	0.400
56-43.6897-107.4722-2-15-					0-	W08327	4983	217	7939	45	-1	2.8	4.9	-179	-1	-1	9.1	2201	39	2.1	26	0.418
56-43.6828-107.4597-2-11-					0-	W08328	5589	212	7818	-22	-2	3.8	2.0	-254	-1	-1	6.5	2344	44	-1.4	59	0.477
56-43.7006-107.4500-2-15-					0-	W08329	5955	215	7432	-15	-1	2.9	2.2	283	-1	-1	7.9	1902	37	2.4	39	0.392
56-43.5897-107.4400-2-15-					0-	W08330	16460	490	6789	-12	-1	3.7	2.2	-280		-1	4.4	2583	35	1.8	47	0.477
56-43.5033-107.4425-2-15-					0-	W08331	20520	433	6785	40	-1	5.1	3.3	-301	-1	-1	9.1	2962	63	2.6	58	0.363
56-43.5117-107.4086-2-11-					0-	W08332	13300	328	5617	57	-1	5.8	7.5	-210	-1	-1	14.7	3264	49	4.8	40	0.265
56-43.5011-107.3914-2-11-					0-	W08333	12020	465	5716	-23	-2	5.3	3.8	-247	-1	-1	10.4	2989	46	3.1	-38	0.404
56-43.5325-107.3847-2-11-					0-	W08334	13790	420	8013	52	-1	5.6	4.1	-282	-1	-1	8.3	3351	71	2.3	48	0.361
56-43.6028-107.4106-2-15-					0-	W08335	50310	341	4092	25	-1	4.5	2.7	-255	-1	-1	5.0	2754	55	2.2	-48	0.540
56-43.6342-107.4008-2-15-					0-	W08336	16410	674	5146	54	-2	8.8	6.6	-293	-1	-1	11.3	3682	82	3.8	-16	0.372
56-43.6378-107.3917-2-12-					0-	W08337	22080	281	6998	-17	-1	4.9	2.1	-179	-1	-1	7.6	2583	48	2.2	36	0.329
56-43.6644-107.3272-2-15-					0-	W08338	37530	356	6614	41	-1	4.9	3.0	525	-1	-1	6.3	2705	45	2.5	52	0.381
56-43.6694-107.3261-2-12-					0-	W08339	34530	238	4290	-11	-1	3.1	2.1	-204	-1		4.6	2309	32	1.9	-37	0.522
56-43.6808-107.3069-2-12-					0-	W08340	32740	390	5893	45	-2	5.2	2.9	392	-1	-1	4.5	2884	52	2.4	-35	0.533
56-43.6756-107.3022-2-15-					0-	W08341	68900	296	4975	26	-1	4.4	3.0	782		-1	6.3	2323	41	2.3	-20	0.413
56-43.6742-107.3028-2-12-					0-	W08342	44420	290	4226	-14	-1	3.2	1.9	-226	-1		4.4	2167	38	2.1	-21	0.545
56-43.6597-107.2561-2-15-					0-	W08343	40780	217	1822	54	-2	8.4	5.1	-227	-1	-1	10.3	4466	81	4.0	-59	0.350
56-43.5478-107.4208-2-12-					0-	W08345	13380	420	5291	51	-2	4.7	3.2	-242	-1	-1	10.4	2788	43	3.1	-30	0.317
56-43.9156-107.9736-2-15-					0-	W08349	20000	353	7517	29	-1	4.9	3.2	-213	-1	-1	7.3	2547	65	2.6	41	0.384
56-43.9136-107.9722-2-15-					0-	W08350	7514	156	2929	30	-1	3.9	2.8	-174	-1	-1	5.7	3444	65	2.1	36	0.526
56-43.9522-107.9475-2-15-					0-	W08351	8183	215	6051	33	-1	5.0	5.2	-218	-1	-1	10.0	2548	67	2.9	54	0.330
56-43.9617-107.9322-2-15-					0-	W08352	3580	78	1936	-12	-1	2.2	1.7	-99	-1	-1	4.8	2163	33	1.6	-20	0.438
56-43.9806-107.9117-2-15-					0-	W08353	5474	210	2240	27	-1	3.8	3.4	-147			8.0	2700	59	2.4	43	0.388
56-43.9908-107.8778-2-15-					0-	W08356	14310	222	3780	47	-2	8.0	5.5	-241	-1	-1	11.0	3601	91	3.3	114	0.318
56-43.9444-107.8092-2-15-					0-	W08358	5716	119	2299	33	-1	4.5	4.2	-140	-1	-1	7.2	2855	58	2.8	51	0.361
56-43.9467-107.8100-2-15-					0-	W08359	7862	180	2455	42	-1	3.6	2.7	-167	-1	-1	5.8	2537	62	1.9	-26	0.483
56-43.9217-107.7750-2-15-					0-	W08360	4494	200	1782	21	-1	2.9	3.0	-149			6.9	3254	46	2.8	-33	0.435

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																									
56-43.9781-107.6089-2-15-						0-W08361-08/07/76-11-			32-		-	-	-	-	-	7-1-1-4-7-	-	-	-	-4-2-3-1-	-1-	-	-	-	-	2.90
56-43.9811-107.6122-2-15-						0-W08362-08/07/76-11-			32-		-	-	-	-	-	7-1-7-5-6-	-1-	-	-4-2-3-1-	-1-	-	-	-	-	3.00						
56-43.9883-107.6078-2-15-						0-W08363-08/07/76-11-			29-		-	-	-	-	-	7-1-6-4-7-	-1-	-	-4-2-3-1-	-1-	-	-	-	-	3.40						
56-43.9994-107.6239-2-15-						0-W08364-08/07/76-11-			27-		-	-	-	-	-	7-1-7-4-6-	-1-	-	-3-2-3-1-	-1-	-	-	-	-	2.30						
56-43.9700-107.5500-2-15-						0-W08365-08/07/76-13-			29-		-	-	-	-	-	10-1-7-5-6-	-1-	-	-4-2-4-1-	-1-	-	-	-	-	2.50						
56-43.9292-107.5167-2-14-						0-W08366-08/07/76-13-			29-	24.0-	-	-	6.4-	250-		15-1-6-5-7-1-2-5-	-3-2-3-1-	-1-	-	-	-	-	3.30									
56-43.9122-107.5186-2-15-						0-W08368-08/07/76-14-			28-		-	-	-	-	-	7-1-1-	-	-	-1-	-	-4-2-3-1-	-1-	-	-	-	-	2.80						
56-43.9211-107.4617-2-15-						0-W08369-08/07/76-15-			30-		-	-	-	-	-	9-1-1-5-6-	-1-	-	-4-3-3-1-	-1-	-	-	-	-	5.10						
56-43.9197-107.4639-2-15-						0-W08370-08/07/76-15-			31-		-	-	-	-	-	12-1-6-5-6-	-1-	-	-4-2-3-1-	-1-	-	-	-	-	3.70						
56-43.9186-107.4622-2-15-						0-W08371-08/07/76-15-			31-		-	-	-	-	-	6-1-6-4-6-	-1-	-	-4-3-3-1-	-	-	-	-	-	3.00						
56-43.9017-107.4911-2-15-						0-W08372-08/07/76-16-			29-		-	-	-	-	-	9-1-1-4-6-	-1-	-	-4-2-4-1-	-1-	-	-	-	-	2.70						
56-43.8893-107.5378-2-15-						0-W08373-08/07/76-16-			28-		-	-	-	-	-	11-1-7-4-6-	-1-	-	-4-2-4-1-	-1-	-	-	-	-	2.80						
56-43.8739-107.5406-2-15-						0-W08374-08/07/76-16-			28-		-	-	-	-	-	9-1-7-4-6-	-1-	-	-4-2-4-1-	-1-	-	-	-	-	3.80						
56-43.8594-107.5472-2-14-						0-W08375-08/07/76-17-			30-	25.5-	-	-	6.6-	310-		11-1-6-5-7-1-3-5-	-3-2-3-1-	-1-	-	-	-	-	3.70									
56-43.8214-107.5431-2-15-						0-W08376-08/07/76-18-			27-		-	-	-	-	-	9-1-7-5-6-	-1-	-	-4-2-3-1-	-1-	-	-	-	-	3.10						
56-43.9483-107.5572-2-14-						0-W08377-08/07/76-19-			31-	19.0-	-	-	6.6-	280-		9-1-7-4-1-	-4-4-	-4-3-3-1-	-1-	-	-	-	-	4.50									
56-43.8264-107.5378-2-15-						0-W08379-08/09/76-11-			29-		-	-	-	-	-	7-1-1-5-6-	-1-	-	-4-2-3-1-	-1-	-	-	-	-	2.60						
56-43.8172-107.5139-2-15-						0-W08380-08/09/76-12-			30-		-	-	-	-	-	7-1-1-5-6-	-1-	-	-4-2-3-1-	-1-	-	-	-	-	3.50						
56-43.7928-107.5244-2-15-						0-W08381-08/09/76-12-			30-		-	-	-	-	-	9-1-6-5-6-	-1-	-	-4-2-2-1-	-1-	-	-	-	-	2.90						
56-43.7653-107.5406-2-15-						0-W08383-08/09/76-13-			27-		-	-	-	-	-	8-1-7-5-7-	-1-	-	-4-3-2-1-	-1-	-	-	-	-	3.60						
56-43.7753-107.5117-2-15-						0-W08384-08/09/76-14-			29-		-	-	-	-	-	13-1-7-5-6-	-1-	-	-4-3-3-1-	-1-	-	-	-	-	2.90						
56-43.7928-107.4856-2-15-						0-W08385-08/09/76-15-			28-		-	-	-	-	-	12-1-6-5-6-	-1-	-	-4-3-2-1-	-1-	-	-	-	-	2.70						
56-43.7686-107.4378-2-15-						0-W08386-08/09/76-16-			27-		-	-	-	-	-	7-1-6-5-6-	-1-	-	-4-3-3-2-	-1-	-	-	-	-	3.00						
56-43.7675-107.4339-2-15-						0-W08387-08/09/76-16-			28-		-	-	-	-	-	15-1-6-5-6-	-1-	-	-4-3-3-2-	-1-	-	-	-	-	3.90						
56-43.7742-107.4403-2-14-						0-W08388-08/09/76-14-			27-	28.0-	-	-	6.6-	410-		9-1-6-5-6-1-2-	-4-3-3-2-	-1-	-	-	-	-	3.10									
56-43.8042-107.4019-2-15-						0-W08389-08/09/76-17-			27-		-	-	-	-	-	13-1-6-5-6-	-1-	-	-4-3-2-2-	-1-	-	-	-	-	3.40						
56-43.8033-107.4006-2-15-						0-W08390-08/09/76-17-			27-		-	-	-	-	-	10-1-6-5-6-	-1-	-	-4-3-2-1-	-1-	-	-	-	-	3.20						
56-43.8144-107.3814-2-15-						0-W08391-08/09/76-17-			27-		-	-	-	-	-	15-1-7-5-6-	-1-	-	-4-4-2-1-	-1-	-	-	-	-	3.60						
56-43.8233-107.3833-2-15-						0-W08392-08/10/76-	8-		23-		-	-	-	-	-	11-1-6-5-6-	-1-	-	-3-3-3-2-	-1-	-	-	-	-	4.20						
56-43.7075-107.6369-2-14-						0-W09393-08/10/76-	-		28-	22.0-	-	-	6.4-	440-		12-1-7-5-7-1-3-2-	-4-3-3-2-	-1-	-	-	-	-	3.20									
56-43.7261-107.6311-2-14-						0-W08394-08/10/76-	9-		23-	21.5-	-	-	6.3-	270-		12-1-6-6-5-1-3-1-	-4-2-3-2-	-1-	-	-	-	-	3.10									
56-43.7281-107.6472-2-15-						0-W08395-08/10/76-	-		23-		-	-	-	-	-	13-1-6-5-	-	-1-	-4-3-3-3-	-1-	-	-	-	-	3.50						
56-43.7244-107.6478-2-15-						0-W08396-08/10/76-10-			24-		-	-	-	-	-	15-1-6-3-6-	-1-	-	-3-2-3-3-	-1-	-	-	-	-	3.70						
56-43.7350-107.6653-2-15-						0-W08397-08/10/76-11-			25-		-	-	-	-	-	12-1-6-5-6-	-1-	-	-4-2-3-3-	-1-	-	-	-	-	2.50						
56-43.7333-107.6833-2-15-						0-W08398-08/10/76-11-			25-		-	-	-	-	-	15-1-6-5-6-	-1-	-	-4-2-3-3-	-1-	-	-	-	-	3.30						
56-43.7442-107.7081-2-15-						0-W08400-08/10/76-12-			24-		-	-	-	-	-	11-1-6-5-6-	-1-	-	-4-3-2-3-	-1-	-	-	-	-	2.60						
56-43.7492-107.7364-2-15-						0-W08401-08/10/76-12-			25-		-	-	-	-	-	10-1-6-5-6-	-1-	-	-4-2-3-3-	-1-	-	-	-	-	2.90						
56-43.7486-107.6942-2-15-						0-W08402-08/10/76-14-			24-		-	-	-	-	-	14-1-6-5-6-	-1-	-	-4-3-2-3-	-1-	-	-	-	-	3.40						
56-43.7639-107.6706-2-15-						0-W08403-08/10/76-14-			25-		-	-	-	-	-	10-1-6-4-7-	-1-	-	-3-2-3-3-	-1-	-	-	-	-	2.20						
56-43.7900-107.7406-2-15-						0-W08404-08/10/76-14-			25-		-	-	-	-	-	9-1-6-4-7-	-1-	-	-4-3-3-3-	-1-	-	-	-	-	2.40						
56-43.7914-107.7100-2-15-						0-W08405-08/10/76-14-			30-		-	-	-	-	-	12-1-1-4-6-	-1-	-	-4-2-3-3-	-	-	-	-	-	2.70						
56-43.8564-107.7031-2-15-						0-W08406-08/10/76-15-			24-		-	-	-	-	-	7-1-1-5-6-	-1-	-	-4-3-3-3-	-1-	-	-	-	-	2.80						
56-43.8567-107.7011-2-15-						0-W08407-08/10/76-16-			24-		-	-	-	-	-	10-1-1-5-6-	-1-	-	-4-3-3-3-	-1-	-	-	-	-	2.70						
56-43.8250-107.6272-2-15-						0-W08408-08/10/76-18-			24-		-	-	-	-	-	13-1-1-5-1-	-1-	-	-3-2-3-2-	-1-	-	-	-	-	2.60						
56-43.8242-107.6278-2-15-						0-W08409-08/10/76-18-			24-		-	-	-	-	-	9-1-1-5-1-	-1-	-	-3-2-3-2-	-1-	-	-	-	-	3.30						
56-43.8386-107.6589-2-15-						0-W08410-08/10/76-18-			24-		-	-	-	-	-	10-1-1-4-6-	-1-	-	-3-2-3-3-	-1-	-	-	-	-	2.20						
56-43.8403-107.6583-2-15-						0-W08411-08/10/74-18-			23-		-	-	-	-	-	4-1-1-4-6-	-1-	-	-3-2-3-3-	-1-	-	-	-	-	2.60						
56-43.8533-107.6783-2-15-						0-W08412-08/10/76-19-			24-		-	-	-	-	-	10-1-1-4-6-	-1-	-	-3-2-3-2-	-1-	-	-	-	-	2.10						
56-43.8531-107.6800-2-15-						0-W08413-08/10/76-19-			24-		-	-	-	-	-	7-1-1-4-6-	-1-	-	-3-2-3-2-	-1-	-	-	-	-	2.70						
56-43.8739-107.6958-2-15-						0-W08414-08/10/76-19-			23-		-	-	-	-	-	9-1-1-4-5-	-1-	-	-3-2-3-2-	-1-	-	-	-	-	2.90						
56-43.9067-107.7183-2-15-						0-W08415-08/10/76-19-			24-		-	-	-	-	-	10-1-1-4-6-	-1-	-	-3-2-3-2-	-1-	-	-	-	-	2.50						

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.9781-107.6089-2-15-						0-W08361	-5	-5	-5	20	-20	-15	15	-10	-15	1	9
56-43.9811-107.6122-2-15-						0-W08362	-5	-5	-5	19	-20	-15	17	-10	15	2	29
56-43.9883-107.6078-2-15-						0-W08363	-5	-5	-5	-10	-20	-15	5	-10	-15	-1	6
56-43.9994-107.6239-2-15-						0-W08364	-5	-5	-5	14	-20	-15	7	-10	-15	1	13
56-43.9700-107.5500-2-15-						0-W08365	-5	-5	-5	14	-20	-15	-5	-10	-15	2	14
56-43.9292-107.5167-2-14-						0-W08366	-5	-5	-5	20	-20	-15	14	-10	-15	2	32
56-43.9122-107.5186-2-15-						0-W08368	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	9
56-43.9211-107.4617-2-15-						0-W08369	-5	-5	-5	24	-20	23	7	-10	-15	3	40
56-43.9197-107.4639-2-15-						0-W08370	-5	-5	-5	21	-20	-15	10	-10	-15	2	44
56-43.9186-107.4622-2-15-						0-W08371	-5	-5	-5	15	-20	-15	7	-10	-15	2	28
56-43.9017-107.4911-2-15-						0-W08372	-5	-5	-5	12	-20	-15	8	-10	-15	2	23
56-43.8883-107.5378-2-15-						0-W08373	-5	-5	-5	15	-20	15	13	-10	-15	2	30
56-43.8739-107.5406-2-15-						0-W08374	-5	-5	-5	11	-20	-15	-5	-10	-15	1	10
56-43.8594-107.5472-2-14-						0-W08375	-5	-5	-5	24	-20	-15	17	-10	-15	3	38
56-43.8214-107.5431-2-15-						0-W08376	-5	-5	-5	14	-20	16	6	-10	-15	8	21
56-43.9483-107.5572-2-14-						0-W08377	-5	-5	-5	10	-20	-15	7	-10	-15	1	15
56-43.8264-107.5378-2-15-						0-W08379	-5	-5	-5	15	-20	-15	11	-10	-15	2	16
56-43.8172-107.5139-2-15-						0-W08380	-5	-5	-5	13	-20	-15	11	-10	-15	2	27
56-43.7928-107.5244-2-15-						0-W08381	-5	-5	-5	17	-20	-15	12	-10	-15	2	23
56-43.7653-107.5406-2-15-						0-W08383	-5	-5	-5	18	-20	23	10	-10	-15	1	20
56-43.7753-107.5117-2-15-						0-W08384	-5	-5	-5	26	-20	27	11	-10	-15	2	41
56-43.7928-107.4856-2-15-						0-W08385	-5	-5	-5	25	-20	16	11	-10	-15	2	43
56-43.7686-107.4378-2-15-						0-W08386	-5	-5	-5	20	-20	19	5	-10	-15	2	45
56-43.7675-107.4339-2-15-						0-W08387	-5	-5	-5	16	-20	20	21	-10	-15	3	43
56-43.7742-107.4403-2-14-						0-W08388	-5	-5	-5	20	-20	31	16	-10	-15	2	61
56-43.8042-107.4019-2-15-						0-W08389	-5	-5	-5	19	-20	23	8	-10	-15	3	43
56-43.8033-107.4006-2-15-						0-W08390	-5	-5	-5	16	-20	-15	10	-10	-15	2	49
56-43.8144-107.3814-2-15-						0-W08391	-5	-5	-5	16	-20	23	12	-10	-15	2	43
56-43.8233-107.3833-2-15-						0-W08392	-5	-5	-5	24	-20	26	15	-10	-15	3	50
56-43.7075-107.6369-2-14-						0-W08393	-5	-5	-5	21	-20	19	16	-10	-15	2	65
56-43.7261-107.6311-2-14-						0-W08394	-5	-5	-5	21	-20	30	10	-10	-15	2	48
56-43.7281-107.6472-2-15-						0-W08395	-5	-5	-5	26	-20	-15	16	-10	-15	3	46
56-43.7244-107.6478-2-15-						0-W08396	-5	-5	-5	29	-20	32	13	-10	-15	2	26
56-43.7350-107.6653-2-15-						0-W08397	-5	-5	-5	13	-20	-15	13	-10	-15	3	71
56-43.7333-107.6833-2-15-						0-W08398	-5	-5	-5	19	-20	16	5	-10	-15	2	57
56-43.7442-107.7081-2-15-						0-W08400	-5	-5	-5	20	-20	-15	10	-10	-15	2	31
56-43.7492-107.7364-2-15-						0-W08401	-5	-5	-5	18	-20	-15	11	-10	-15	2	36
56-43.7486-107.6942-2-15-						0-W08402	-5	-5	-5	20	-20	-15	19	-10	-15	2	43
56-43.7639-107.6706-2-15-						0-W08403	-5	-5	-5	13	-20	-15	-5	-10	-15	1	12
56-43.7900-107.7406-2-15-						0-W08404	-5	-5	-5	13	-20	-15	5	-10	-15	1	13
56-43.7914-107.7100-2-15-						0-W08405	-5	-5	-5	10	-20	-15	-5	-10	-15	1	16
56-43.8564-107.7031-2-15-						0-W08406	-5	-5	-5	20	-20	-15	8	-10	-15	2	16
56-43.8567-107.7011-2-15-						0-W08407	-5	-5	-5	-10	-20	-15	11	-10	-15	2	21
56-43.8250-107.6272-2-15-						0-W08408	-5	-5	-5	17	-20	-15	11	-10	-15	2	18
56-43.8242-107.6278-2-15-						0-W08409	-5	-5	-5	15	-20	-15	-5	-10	-15	1	13
56-43.8386-107.6589-2-15-						0-W08410	-5	-5	-5	-10	-20	-15	7	-10	-15	1	11
56-43.8403-107.6583-2-15-						0-W08411	-5	-5	-5	14	-20	-15	-5	-10	-15	1	9
56-43.8533-107.6783-2-15-						0-W08412	-5	-5	-5	-10	-20	-15	5	-10	-15	1	13
56-43.8531-107.6800-2-15-						0-W08413	-5	-5	-5	23	-20	-15	8	-10	-15	2	18
56-43.8739-107.6958-2-15-						0-W08414	-5	-5	-5	14	-20	18	10	-10	-15	2	20
56-43.9067-107.7183-2-15-						0-W08415	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	16

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.9781-	107.6089-	2-	15-		0-W08361	19120	-0.03	700	-480	36	53	4.8	19	1.4	3	0.8	10160	9.7	8090	27	0.2
56-	43.9811-	107.6122-	2-	15-		0-W08362	51820	-0.05	689	3613	73	-39	8.4	55	4.0	3	1.1	12640	7.9	14200	32	0.4
56-	43.9883-	107.6078-	2-	15-		0-W08363	13890	-0.04	521	-389	56	-26	3.9	27	-0.9	3	0.9	7011	20.6	6558	34	0.4
56-	43.9994-	107.6239-	2-	15-		0-W08364	23950	-0.03	602	1730	33	-25	4.0	20	1.5	3	0.7	7182	6.1	10420	20	0.2
56-	43.9700-	107.5500-	2-	15-		0-W08365	35280	-0.03	612	4392	33	-40	5.0	24	1.7	3	0.7	6427	4.9	11360	19	0.2
56-	43.9292-	107.5167-	2-	14-		0-W08366	63200	-0.05	695	14570	76	-68	9.5	57	4.2	4	1.1	14450	8.2	15920	35	0.4
56-	43.9122-	107.5186-	2-	15-		0-W08368	15560	-0.03	541	1441	45	-32	3.2	22	-0.9	3	0.7	7413	14.9	6695	24	0.4
56-	43.9211-	107.4617-	2-	15-		0-W08369	54390	-0.04	659	16400	57	-57	5.5	41	3.6	4	0.9	11370	8.9	13930	32	0.3
56-	43.9197-	107.4639-	2-	15-		0-W08370	63730	-0.04	610	14990	47	93	7.8	41	3.9	4	0.9	11550	4.4	17260	32	0.3
56-	43.9186-	107.4622-	2-	15-		0-W08371	38810	-0.04	658	13890	62	-54	7.5	39	3.3	3	1.0	11370	10.0	11930	34	0.4
56-	43.9017-	107.4911-	2-	15-		0-W08372	45730	-0.04	455	8288	39	-61	5.0	23	2.4	3	0.8	6627	6.3	13640	27	0.3
56-	43.8883-	107.5378-	2-	15-		0-W08373	50030	-0.03	614	12550	50	-56	6.4	38	2.6	4	0.9	9346	7.9	14730	29	0.3
56-	43.8739-	107.5406-	2-	15-		0-W08374	21580	-0.03	448	-416	49	-25	4.0	28	1.0	5	1.0	5469	19.5	7415	29	0.4
56-	43.8594-	107.5472-	2-	14-		0-W08375	74860	-0.06	533	3843	98	-40	7.3	63	4.8	4	1.1	10610	9.9	14710	46	0.6
56-	43.8214-	107.5431-	2-	15-		0-W08376	37590	-0.04	506	8108	47	-52	4.1	29	-1.1	3	1.0	6708	11.5	14590	28	0.3
56-	43.9483-	107.5572-	2-	14-		0-W08377	47170	-0.04	216	1506	60	-25	3.8	42	2.1	4	1.0	6887	23.1	7025	41	0.5
56-	43.8264-	107.5378-	2-	15-		0-W08379	31390	0.10	525	2433	37	-30	3.9	18	1.7	3	0.6	4329	5.7	12060	20	0.2
56-	43.8172-	107.5139-	2-	15-		0-W08380	42600	-0.04	538	6332	73	-50	7.0	45	2.7	4	1.0	10060	16.4	14310	39	0.5
56-	43.7928-	107.5244-	2-	15-		0-W08381	46180	-0.05	612	7500	44	-52	4.8	38	2.5	3	0.8	8141	8.1	13000	28	0.3
56-	43.7653-	107.5406-	2-	15-		0-W08383	32860	-0.03	839	3847	48	-36	6.1	36	1.9	4	0.9	15910	12.5	9733	29	0.3
56-	43.7753-	107.5117-	2-	15-		0-W08384	61890	-0.04	557	22130	50	-54	7.6	46	3.4	5	0.9	10520	4.8	18990	28	0.3
56-	43.7928-	107.4856-	2-	15-		0-W08385	54460	-0.05	542	27260	68	-64	8.1	57	4.0	3	1.3	14810	6.7	16640	34	0.3
56-	43.7686-	107.4378-	2-	15-		0-W08386	50570	-0.05	495	24550	39	-68	6.7	38	3.1	3	1.0	10500	5.6	13550	26	0.2
56-	43.7675-	107.4339-	2-	15-		0-W08387	62900	-0.04	681	9824	59	-54	6.8	47	4.4	4	1.0	12830	4.4	16720	35	0.3
56-	43.7742-	107.4403-	2-	14-		0-W08388	70090	-0.05	631	30700	52	-66	9.2	46	4.2	4	1.0	15520	3.4	18750	28	0.3
56-	43.8042-	107.4019-	2-	15-		0-W08389	49070	-0.04	630	20960	70	-60	7.7	48	3.5	3	1.1	12150	8.5	16170	34	0.4
56-	43.8033-	107.4006-	2-	15-		0-W08390	51790	-0.05	659	18670	38	-69	6.1	39	2.8	3	0.7	10670	4.5	16420	26	0.3
56-	43.8144-	107.3814-	2-	15-		0-W08391	49160	-0.04	672	19420	50	136	5.3	37	2.2	4	0.8	9596	10.1	13460	31	0.4
56-	43.8233-	107.3833-	2-	15-		0-W08392	67410	-0.04	753	21820	48	-63	7.5	39	4.1	4	1.0	11360	5.4	17210	29	0.2
56-	43.7075-	107.6369-	2-	14-		0-W08393	58610	-0.05	686	44370	62	-72	8.7	50	4.8	3	1.1	14400	6.1	17040	31	0.3
56-	43.7261-	107.6311-	2-	14-		0-W08394	59370	-0.05	581	19590	49	-68	5.9	34	3.0	3	0.9	10300	6.2	15240	30	0.3
56-	43.7281-	107.6472-	2-	15-		0-W08395	74760	-0.05	588	11960	65	-57	7.8	52	4.4	4	1.0	12700	4.1	19640	33	0.3
56-	43.7244-	107.6478-	2-	15-		0-W08396	72460	-0.05	1222	22920	53	-66	8.3	49	4.5	4	1.0	12520	3.8	18890	25	0.2
56-	43.7350-	107.6653-	2-	15-		0-W08397	45740	-0.04	513	29600	68	-62	7.8	34	3.5	3	1.1	12180	7.6	12780	30	0.3
56-	43.7333-	107.6633-	2-	15-		0-W08398	55010	-0.05	679	22370	45	-68	7.2	41	2.7	3	0.9	11410	5.4	16960	28	0.3
56-	43.7442-	107.7081-	2-	15-		0-W08400	47910	-0.04	524	29160	49	-59	5.1	34	2.9	3	0.8	10220	4.8	14540	26	0.3
56-	43.7492-	107.7364-	2-	15-		0-W08401	54340	-0.04	657	34040	40	-65	6.8	34	2.9	4	1.0	9668	5.4	15750	24	0.2
56-	43.7486-	107.6942-	2-	15-		0-W08402	80310	-0.06	493	9309	73	-49	9.0	65	5.6	4	1.2	13970	5.4	14900	40	0.4
56-	43.7639-	107.6706-	2-	15-		0-W08403	22970	-0.03	386	2374	37	-31	2.9	16	1.3	3	0.7	3900	8.1	8698	22	0.2
56-	43.7900-	107.7406-	2-	15-		0-W08404	33920	-0.03	465	2061	39	-22	3.9	25	2.3	3	0.7	5480	6.3	10730	23	0.2
56-	43.7914-	107.7100-	2-	15-		0-W08405	34190	-0.03	441	3467	34	-31	4.1	26	2.2	3	0.7	4910	9.8	11080	22	0.3
56-	43.8564-	107.7031-	2-	15-		0-W08406	33000	-0.04	559	2530	58	-36	5.7	36	2.5	4	1.1	7138	10.9	14280	31	0.4
56-	43.8567-	107.7011-	2-	15-		0-W08407	46760	-0.05	543	4090	38	-40	4.8	28	2.5	3	0.9	7339	6.8	16050	25	0.2
56-	43.8250-	107.6272-	2-	15-		0-W08408	33750	-0.03	549	1960	41	-26	4.2	34	2.3	3	0.8	5710	6.7	12950	25	0.3
56-	43.8242-	107.6278-	2-	15-		0-W08409	24930	-0.03	514	-337	45	-22	3.9	25	1.2	4	0.7	5304	14.9	9558	26	0.3
56-	43.8386-	107.6589-	2-	15-		0-W08410	26790	-0.03	450	1415	47	44	4.7	26	1.7	3	0.8	6292	7.5	8746	24	0.4
56-	43.8403-	107.6583-	2-	15-		0-W08411	20270	-0.03	595	-317	36	-22	3.4	26	1.6	3	0.8	7506	11.3	8084	22	0.3
56-	43.8533-	107.6783-	2-	15-		0-W08412	23470	-0.03	506	-319	40	-22	3.8	25	1.4	3	0.7	6696	6.6	9827	21	0.2
56-	43.8531-	107.6800-	2-	15-		0-W08413	38660	-0.03	665	2480	37	-26	4.8	25	2.4	3	0.7	8003	5.5	10330	21	0.2
56-	43.8739-	107.6958-	2-	15-		0-W08414	38140	-0.04	662	3933	64	-38	6.2	42	2.8	4	0.9	9298	11.5	13320	31	0.4
56-	43.9067-	107.7183-	2-	15-		0-W08415	21870	-0.03	530	-412	34	-25	3.3	18	1.5	2	0.7	6650	9.2	10890	20	0.3

APPENDIX 1-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	43.9781-	107.6089-	2-	15-		0-W08361	3307	287	1061	-13	-1	2.3	2.3	-169			4.6	2962	54	1.8	33	0.630
56-	43.9811-	107.6122-	2-	15-		0-W08362	8512	132	2068	38	-1	6.9	4.3	-190	-1	-1	9.6	3442	99	3.8	89	0.313
56-	43.9883-	107.6078-	2-	15-		0-W08363	-1509	204	741	-16	-1	2.4	2.9	-170	-1	-1	6.1	4639	43	3.1	-24	0.557
56-	43.9994-	107.6239-	2-	15-		0-W08364	3837	138	1262	20	-1	2.7	2.4	-132			4.7	2156	53	1.5	36	0.489
56-	43.9700-	107.5500-	2-	15-		0-W08365	7334	134	4152	20	-1	3.1	2.6	255	-1		5.0	2377	53	1.9	36	0.500
56-	43.9292-	107.5167-	2-	14-		0-W08366	15840	288	6098	57	-2	7.7	5.7	-761	-1	-1	10.5	3377	86	3.1	91	0.314
56-	43.9122-	107.5186-	2-	15-		0-W08368	-1548	181	1469	-14	-1	2.1	2.2	-159	-1	-1	5.4	3298	37	2.0	-23	0.519
56-	43.9211-	107.4617-	2-	15-		0-W08369	16270	282	5798	36	-1	5.6	3.8	-214	-1	-1	9.6	3439	81	3.0	81	0.531
56-	43.9197-	107.4639-	2-	15-		0-W08370	17010	288	4724	39	-1	6.2	3.6	415	-1	-1	8.1	3560	99	2.0	-32	0.457
56-	43.9186-	107.4622-	2-	15-		0-W08371	12580	242	4645	39	-1	4.6	4.9	-213	-1	-1	8.6	2546	63	2.9	54	0.349
56-	43.9017-	107.4911-	2-	15-		0-W08372	6434	169	6820	-16	-1	3.9	2.7	-204	-1	-1	6.7	2716	46	2.5	-27	0.403
56-	43.8883-	107.5378-	2-	15-		0-W08373	12190	241	7617	27	1	4.8	3.4	177		-1	7.4	3067	58	1.9	54	0.378
56-	43.8739-	107.5406-	2-	15-		0-W08374	3276	170	1193	-11	1	2.5	3.0	-132			7.0	4045	42	2.7	20	0.543
56-	43.8594-	107.5472-	2-	14-		0-W08375	8440	78	1476	42	-2	8.3	5.9	-186	-1	-1	13.5	3991	106	3.1	75	0.274
56-	43.8214-	107.5431-	2-	15-		0-W08376	10750	196	4757	-16	-1	3.5	2.0	-202	-1	-1	5.5	3115	48	2.5	43	0.564
56-	43.9483-	107.5572-	2-	14-		0-W08377	3321	129	916	20	-1	4.9	4.8	-145	-1	-1	11.7	5265	59	3.7	15	0.385
56-	43.8264-	107.5378-	2-	15-		0-W08379	4431	87	2128	24	-1	2.6	2.1	-116			4.4	2154	41	1.7	-17	0.591
56-	43.8172-	107.5139-	2-	15-		0-W08380	8461	195	4517	40	-1	5.3	4.9	-195	-1	-1	9.3	3472	68	3.3	-33	0.376
56-	43.7928-	107.5244-	2-	15-		0-W08381	7698	178	4137	27	-1	4.3	2.6	-200	-1	-1	7.9	3348	73	1.9	-30	0.367
56-	43.7653-	107.5406-	2-	15-		0-W08383	5627	332	1780	-13	-1	3.9	3.4	-187		-1	6.6	3151	82	2.8	54	0.545
56-	43.7753-	107.5117-	2-	15-		0-W08384	15760	318	4682	42	-1	5.7	3.8	-229	-1	-1	8.6	3321	65	2.3	61	0.337
56-	43.7928-	107.4856-	2-	15-		0-W08385	24920	300	6518	53	-1	7.1	5.4	227	-1	-1	9.3	2727	76	2.6	75	0.290
56-	43.7686-	107.4378-	2-	15-		0-W08386	23230	273	5713	46	-2	5.2	2.8	-256	-1	-1	6.6	2585	104	-1.3	55	0.455
56-	43.7675-	107.4339-	2-	15-		0-W08387	14620	298	5080	48	-1	6.3	3.8	-214	-1	-1	10.8	2884	100	2.4	84	0.361
56-	43.7742-	107.4403-	2-	14-		0-W08388	31170	326	5609	41	-2	7.3	3.7	-262	-1	-1	8.4	3406	123	2.5	72	0.369
56-	43.8042-	107.4019-	2-	15-		0-W08389	19580	223	6477	44	-1	6.0	4.9	-217	-1	-1	10.1	2962	86	3.6	62	0.337
56-	43.8033-	107.4006-	2-	15-		0-W08390	20340	243	6379	-22	-2	5.0	2.7	-256	-1	-1	8.1	2715	106	-1.2	-35	0.395
56-	43.8144-	107.3814-	2-	15-		0-W08391	15110	240	10210	35	-1	4.2	3.6	-223	-1	-1	8.8	2752	61	3.0	59	0.409
56-	43.8233-	107.3833-	2-	15-		0-W08392	17820	263	6707	51	-1	6.0	3.4	359	-1	-1	7.7	2928	115	1.9	-57	0.545
56-	43.7075-	107.6369-	2-	14-		0-W08393	30810	234	7115	48	3	6.9	4.9	-260	-1	-1	9.5	2955	118	3.8	108	0.337
56-	43.7261-	107.6311-	2-	14-		0-W08394	19300	237	6270	-21	-2	5.8	2.9	-250	-1	-1	6.7	3623	81	3.5	62	0.463
56-	43.7281-	107.6472-	2-	15-		0-W08395	18980	265	4716	36	-2	7.7	3.9	-229	-1	-1	9.5	3635	92	2.3	84	0.368
56-	43.7244-	107.6478-	2-	15-		0-W08396	22920	317	6557	-20	-2	7.1	3.3	-260	-1	-1	8.1	3744	140	1.4	95	0.457
56-	43.7350-	107.6653-	2-	15-		0-W08397	26950	197	6122	37	-1	5.9	4.5	-225	-1	-1	7.7	2238	74	2.5	95	0.325
56-	43.7333-	107.6833-	2-	15-		0-W08398	22240	222	6419	48	-2	5.7	2.6	-251	-1	1	6.8	3386	108	2.1	-35	0.485
56-	43.7442-	107.7081-	2-	15-		0-W08400	27230	223	6587	29	-1	5.1	3.3	-200		-1	6.6	2441	73	1.8	37	0.394
56-	43.7492-	107.7364-	2-	15-		0-W08401	31870	246	7127	-16	-1	5.2	3.1	-228	-1	-1	6.3	2810	87	2.1	-60	0.460
56-	43.7486-	107.6942-	2-	15-		0-W08402	11750	208	2734	55	-2	8.9	5.8	-234	-1	-1	13.0	4094	90	4.2	108	0.262
56-	43.7639-	107.6706-	2-	15-		0-W08403	2747	93	1567	-12	-1	2.2	2.0	-131	-1	-1	4.4	2456	29	1.7	-23	0.500
56-	43.7900-	107.7406-	2-	15-		0-W08404	4674	80	821	25	-1	3.2	2.5	-117			5.1	2733	50	2.0	31	0.471
56-	43.7914-	107.7100-	2-	15-		0-W08405	6695	116	2009	21	-1	3.0	2.4	-130			5.9	2955	41	2.2	30	0.458
56-	43.8544-	107.7031-	2-	15-		0-W08406	5406	127	2046	42	-1	3.9	4.5	-156	-1	-1	7.7	2798	42	3.2	-22	0.364
56-	43.8567-	107.7011-	2-	15-		0-W08407	7600	131	1992	38	-1	4.3	2.0	-177	-1	-1	5.6	2919	68	1.9	-30	0.482
56-	43.8250-	107.6272-	2-	15-		0-W08408	5353	70	1210	24	-1	3.9	2.9	-117		-1	6.1	2915	72	2.6	31	0.426
56-	43.8242-	107.6278-	2-	15-		0-W08409	3819	113	750	18	-1	2.7	2.9	-122	-1		5.8	3658	54	2.5	-25	0.569
56-	43.8386-	107.6589-	2-	15-		0-W08410	3440	70	842	30	-1	3.2	3.5	-127	-1	-1	6.3	2307	43	2.4	-7	0.349
56-	43.8403-	107.6583-	2-	15-		0-W08411	3632	149	618	-14	-1	2.3	2.5	-147	-1	-1	5.5	2930	44	2.2	-23	0.473
56-	43.8533-	107.6783-	2-	15-		0-W08412	3560	131	1122	21	1	2.4	2.5	-123			5.0	2320	42	2.3	37	0.420
56-	43.8531-	107.6900-	2-	15-		0-W08413	4865	129	934	20	-1	3.4	2.4	-131	-1	-1	5.0	3004	65	1.5	-51	0.540
56-	43.8739-	107.6958-	2-	15-		0-W08414	6779	165	2286	39	-1	4.8	4.1	-167	-1	-1	7.7	2681	58	3.2	59	0.377
56-	43.9067-	107.7183-	2-	15-		0-W08415	2459	151	923	-14	-1	2.4	2.2	-149	-1		4.3	2567	49	1.8	-38	0.581

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																									
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umhos/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.6486-107.2475-2-11-						0-W08417-08/08/76-12-			30-	8.0-	-	-	6.6-	420-	12-1-7-5-6-3-3-1-				-3-3-3-1-		-1-	-	-	-	-	3.00							
56-43.6711-107.2408-2-11-						0-W08418-08/08/76-12-			30-	9.0-	-	-	6.8-	470-	9-1-7-5-6-3-3-1-				-3-3-3-1-		-1-	-	-	-	-	3.00							
56-43.6767-107.2328-2-12-						0-W08419-08/08/76-12-			32-	15.0-	-	-	6.9-	210-	8-1-7-5-4-3-3-1-2-4-3-3-1-						-1-	-	-	-	-	2.60							
56-43.7072-107.2478-2-15-						0-W08420-08/08/76-12-			32-		-	-	-	-	9-1-7-4-6-				- - - -4-3-3-1-		-1-	-	-	-	-	3.10							
56-43.7089-107.2994-2-15-						0-W08422-08/09/76-13-			30-		-C-	-	-	-	5-1-4-4-4-				- - - -4-3-3-1-		-1-	-	-	-	-	2.40							
56-43.7456-107.2881-2-15-						0-W08423-08/09/76-13-			30-		-C-	-	-	-	11-1-4-4-4-				- - - -3-3-3-1-		-1-	-	-	-	-	2.10							
56-43.7639-107.3000-2-11-						0-W08424-08/09/76-13-			30-	17.0-	-	-	7.2-	360-	9-1-7-6-6-3-3-1-				-4-2-3-1-		-1-	-	-	-	-	2.70							
56-43.7750-107.3081-2-15-						0-W08425-08/09/76-15-			30-		-	-	-	-	8-1-7-4-4-				- - -2-3-3-2-1-		-1-	-	-	-	-	2.20							
56-43.7919-107.2825-2-15-						0-W08426-08/09/76-15-			30-		-	-	-	-	8-1-7-4-4-				- - -2-3-3-2-1-		-1-	-	-	-	-	2.10							
56-43.7964-107.3119-2-15-						0-W08427-08/09/76-15-			30-		-	-	-	-	8-1-7-5-8-				- - - -3-3-2-1-		-1-	-	-	-	-	2.30							
56-43.7947-107.3069-2-15-						0-W08428-08/09/76-15-			30-		-	-	-	-	8-1-7-4-4-				- - -2-3-3-2-1-		-1-	-	-	-	-	2.10							
56-43.8586-107.3069-2-15-						0-W08429-08/09/76-15-			30-		-	-	-	-	11-1-7-4-4-				- - - -3-3-2-1-		-1-	-	-	-	-	2.10							
56-43.8581-107.3050-2-12-						0-W08430-08/09/76-15-			30-	14.0-	-	-	6.6-	230-	13-1-7-6-6-3-3-1-2-4-3-2-1-						-1-	-	-	-	-	2.60							
56-43.8625-107.3047-2-12-						0-W08431-08/09/76-16-			30-	18.0-	-	-	6.6-	300-	9-1-7-6-4-3-3-1-2-4-3-2-1-						-1-	-	-	-	-	2.90							
56-43.8686-107.3117-2-15-						0-W08432-08/09/76-16-			30-		-	-	-	-	8-1-7-4-4-				- - -2-3-3-2-1-		-1-	-	-	-	-	2.30							
56-43.8672-107.3222-2-15-						0-W08433-08/09/76-16-			30-		-	-	-	-	14-1-4-4-4-				- - -2-2-3-2-1-		-1-	-	-	-	-	2.60							
56-43.8742-107.3403-2-12-						0-W08434-08/09/76-16-			30-	20.0-	-	-	6.9-	350-	9-1-7-4-6-3-3-2-2-4-3-2-1-						-1-	-	-	-	-	2.20							
56-43.8903-107.3303-2-11-						0-W08436-08/09/76-16-			30-	14.0-	-	-	6.3-	340-	12-1-7-5-6-3-3-1-				-3-3-2-1-		-1-	-	-	-	-	2.00							
56-43.8889-107.2942-2-15-						0-W08437-08/09/76-17-			30-		-C-	-	-	-	11-1-7-4-4-				- - - -3-3-2-1-		-1-	-	-	-	-	2.00							
56-43.9133-107.3017-2-11-						0-W08438-08/09/76-17-			30-	20.0-	-	-	6.4-	490-	9-1-7-6-6-1-2-3-				-4-3-2-1-		-1-	-	-	-	-	2.60							
56-43.9517-107.2897-2-15-						0-W08439-08/09/76-17-			30-		-	-	-	-	11-1-7-4-6-				- - -2-3-3-2-1-		-1-	-	-	-	-	2.50							
56-43.9361-107.2867-2-12-						0-W08440-08/09/76-17-			30-	17.0-	-	-	6.6-	440-	11-1-7-5-4-3-3-1-2-4-3-2-1-						-1-	-	-	-	-	2.70							
56-43.9383-107.2914-2-12-						0-W08441-08/09/76-17-			30-	12.0-	-	-	6.6-	37-	6-1-7-5-6-3-3-1-2-4-3-2-1-						-1-	-	-	-	-	3.00							
56-43.9372-107.2925-2-12-						0-W08442-08/09/76-17-			30-	20.0-	-	-	6.6-	425-	8-1-7-5-6-3-3-1-2-4-3-2-1-						-1-	-	-	-	-	2.30							
56-43.9358-107.3089-2-12-						0-W08443-08/09/76-18-			28-	18.0-	-	-	6.9-	300-	3-1-7-4-6-3-3-1-2-4-3-2-1-						-1-	-	-	-	-	1.50							
56-43.9347-107.3419-2-12-						0-W08446-08/09/76-18-			25-	20.0-	-	-	6.5-	400-	12-1-7-5-4-3-3-3-2-4-3-3-1-						-1-	-	-	-	-	2.60							
56-43.9786-107.2194-2-15-						0-W08447-08/14/76-11-			28-		-	-	-	-	8-1-7-5-6-				- - -2-4-3-3-1-		-1-	-	-	-	-	1.60							
56-43.9833-107.1969-2-15-						0-W08448-08/14/76-11-			28-		-	-	-	-	6-1-7-5-6-				- - - -3-3-3-1-		-1-	-	-	-	-	3.20							
56-43.9817-107.1747-2-14-						0-W08449-08/14/76-11-			28-	20.0-	-	-	7.2-	350-	8-1-7-5-6-2-3-2-				-3-3-3-1-		-1-	-	-	-	-	3.30							
56-43.9486-107.1767-2-15-						0-W08450-08/14/76-12-			28-		-	-	-	-	8-1-7-4-6-				- - -2-3-3-3-1-		-1-	-	-	-	-	0.90							
56-43.9056-107.2256-2-11-						0-W08451-08/14/76-12-			28-	10.0-	-	-	6.6-	200-	9-1-7-5-6-3-3-1-				-3-3-3-1-		-1-	-	-	-	-	2.10							
56-43.8875-107.2008-2-14-						0-W08452-08/14/76-13-			30-	12.0-	-	-	6.9-	240-	6-1-7-5-6-3-3-1-				-3-3-3-1-		-1-	-	-	-	-	2.00							
56-43.9228-107.1825-2-11-						0-W08453-08/14/76-13-			30-	9.0-	-	-	5.8-	50-	9-1-7-5-6-3-3-1-				-3-3-3-1-		-1-	-	-	-	-	2.20							
56-43.9353-107.1358-2-15-						0-W08454-08/14/76-15-			30-		-	-	-	-	11-1-7-5-6-				- - - -4-3-3-1-		-1-	-	-	-	-	2.10							
56-43.9172-107.1331-2-11-						0-W08455-08/14/76-15-			30-	9.0-	-	-	6.9-	250-	12-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-	-	-	2.20							
56-43.8650-107.1764-2-11-						0-W08456-08/14/76-14-			30-	9.0-	-	-	5.6-	70-	11-1-7-5-6-3-3-1-				-3-3-3-1-		-1-	-	-	-	-	2.40							
56-43.8656-107.1286-2-15-						0-W08457-08/14/76-13-			30-		-C-	-	-	-	8-1-7-5-6-				- - - -3-3-3-1-		-1-	-	-	-	-	3.00							
56-43.8494-107.1625-2-11-						0-W08458-08/14/76-14-			30-	10.0-	-	-	5.6-	60-	8-1-7-5-6-3-3-1-				-3-3-3-1-		-1-	-	-	-	-	2.20							
56-43.9764-107.1319-2-11-						0-W08459-08/14/76-15-			30-	8.0-	-	-	6.9-	200-	8-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-	-	-	2.20							
56-43.8486-107.2461-2-11-						0-W08460-08/14/76-15-			30-	10.0-	-	-	6.3-	150-	12-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-	-	-	2.60							
56-43.8139-107.2178-2-11-						0-W08461-08/14/76-15-			30-	9.0-	-	-	6.0-	200-	6-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-	-	-	2.40							
56-43.8053-107.2436-2-12-						0-W08462-08/14/76-17-			30-	11.0-	-	-	6.3-	200-	4-1-7-5-6-3-3-1-2-4-3-3-1-						-1-	-	-	-	-	2.40							
56-43.7878-107.2239-2-11-						0-W08463-08/14/76-17-			30-	8.0-	-	-	6.6-	250-	8-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-	-	-	2.50							
56-43.7589-107.2100-2-11-						0-W08464-08/14/76-17-			30-	8.0-	-	-	6.5-	220-	4-1-7-5-6-3-3-1-				-4-3-3-1-		-1-	-	-	-	-	2.50							
56-43.6567-107.1414-2-11-						0-W08465-08/14/76-10-			22-	14.0-	-	-	6.5-	230-	11-1-7-5-6-2-		-1-		-4-3-3-1-		-1-	-	-	-	-	3.20							
56-43.7222-107.1872-2-11-						0-W08466-08/14/76-10-			24-	11.0-	-	-	5.3-	50-	17-1-7-5-6-2-		-1-		-4-2-3-1-		-1-	-	-	-	-	3.00							
56-43.7219-107.1892-2-12-						0-W08467-08/14/76-10-			24-	10.0-	-	-	6.2-	100-	19-1-7-5-6-2-3-1-2-3-3-3-1-						-1-	-	-	-	-	3.20							
56-43.7464-107.1856-2-11-						0-W08468-08/14/76-10-			26-	9.0-	-	-	5.4-	74-	9-1-7-5-6-2-		-1-		-3-3-2-1-		-1-	-	-	-	-	1.80							
56-43.7475-107.2111-2-11-						0-W08469-08/14/76-10-			26-	10.0-	-	-	5.3-	60-	3-1-7-5-6-2-		-1-		-3-3-2-1-		-1-	-	-	-	-	0.90							
56-43.7222-107.1672-2-11-						0-W08470-08/14/76-11-			26-	9.5-	-	-	5.4-	48-	8-1-7-5-6-2-		-1-		-3-4-3-1-		-1-	-	-	-	-	3.10							
56-43.7069-107.1561-2-11-						0-W08471-08/14/76-11-			26-	10.5-	-	-	5.2-	55-	11-1-7-4-6-2-		-1-		-3-3-3-1-		-1-	-	-	-	-	3.00							

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						USGS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.6486-107.2475-2-11-						0-W08417	-5	-5	-5	20	-20	17	8	-10	-15	2	23
56-43.6711-107.2408-2-11-						0-W08418	-5	-5	-5	16	-20	15	-5	-10	-15	1	38
56-43.6767-107.2328-2-12-						0-W08419	-5	-5	-5	13	-20	17	7	-10	-15	2	41
56-43.7077-107.2478-2-15-						0-W08420	-5	-5	-5	15	-20	-15	5	-10	-15	1	11
56-43.7089-107.2994-2-15-						0-W08422	-5	-5	-5	26	-20	-15	8	-10	-15	2	60
56-43.7456-107.2881-2-15-						0-W08423	-5	-5	-5	21	-20	20	10	-10	-15	2	36
56-43.7639-107.3000-2-11-						0-W08424	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	17
56-43.7750-107.3081-2-15-						0-W08425	-5	-5	-5	19	-20	-15	-5	-10	-15	1	45
56-43.7919-107.2825-2-15-						0-W08426	-5	-5	-5	15	-20	-15	5	-10	-15	2	103
56-43.7964-107.3119-2-15-						0-W08427	-5	-5	-5	21	-20	-15	-5	-10	-15	2	35
56-43.7947-107.3069-2-15-						0-W08428	-5	-5	-5	15	-20	26	5	-10	-15	2	87
56-43.8586-107.3069-2-15-						0-W08429	-5	-5	-5	20	-20	30	-5	-10	-15	2	35
56-43.8581-107.3050-2-12-						0-W08430	-5	-5	-5	21	-20	-15	6	-10	15	2	25
56-43.8625-107.3047-2-12-						0-W08431	-5	-5	-5	31	-20	-15	14	-10	-15	2	34
56-43.8686-107.3117-2-15-						0-W08432	-5	-5	-5	25	-20	-15	12	-10	17	2	75
56-43.8672-107.3222-2-15-						0-W08433	-5	-5	-5	16	-20	-15	6	-10	-15	2	28
56-43.8742-107.3403-2-12-						0-W08434	-5	-5	-5	11	-20	-15	-5	-10	-15	2	32
56-43.8903-107.3303-2-11-						0-W08436	-5	-5	-5	31	-20	-15	7	-10	-15	2	32
56-43.8889-107.2942-2-15-						0-W08437	-5	-5	-5	28	-20	-15	13	-10	-15	1	39
56-43.9133-107.3017-2-11-						0-W08438	-5	-5	-5	42	-20	37	18	-10	-15	3	49
56-43.9517-107.2897-2-15-						0-W08439	-5	-5	-5	23	-20	-15	-5	-10	-15	2	39
56-43.9361-107.2867-2-12-						0-W08440	-5	-5	-5	16	-20	-15	-5	-10	-15	2	26
56-43.9383-107.2914-2-12-						0-W08441	-5	-5	-5	21	-20	-15	5	-10	-15	2	24
56-43.9372-107.2925-2-12-						0-W08442	-5	-5	-5	36	-20	-15	6	-10	-15	2	28
56-43.9358-107.3089-2-12-						0-W08443	-5	-5	-5	-10	-20	-15	9	-10	25	1	14
56-43.9367-107.3419-2-12-						0-W08446	-5	-5	-5	25	-20	22	7	-10	-15	2	31
56-43.9786-107.2194-2-15-						0-W08447	-5	-5	-5	-10	-20	-15	5	-10	-15	1	12
56-43.9833-107.1969-2-15-						0-W08448	-5	-5	-5	14	-20	19	16	-10	-15	2	23
56-43.9817-107.1747-2-14-						0-W08449	-5	-5	-5	14	-20	16	11	-10	-15	2	28
56-43.9486-107.1767-2-15-						0-W08450	-5	-5	-5	10	-20	-15	-5	-10	-15	-1	12
56-43.9058-107.2256-2-11-						0-W08451	-5	-5	-5	19	-20	-15	-5	-10	-15	2	18
56-43.8875-107.2008-2-14-						0-W08452	-5	-5	-5	14	-20	-15	6	-10	-15	1	16
56-43.9228-107.1825-2-11-						0-W08453	-5	-5	-5	16	-20	-15	17	12	-15	2	12
56-43.9353-107.1358-2-15-						0-W08454	-5	-5	-5	20	-20	-15	-5	-10	-15	2	17
56-43.9172-107.1331-2-11-						0-W08455	-5	-5	-5	12	-20	-15	6	-10	-15	2	14
56-43.8650-107.1764-2-11-						0-W08456	-5	-5	-5	23	-20	-15	-5	-10	-15	1	15
56-43.8656-107.1286-2-15-						0-W08457	-5	-5	-5	25	-20	-15	10	-10	-15	2	33
56-43.8494-107.1625-2-11-						0-W08458	-5	-5	-5	17	-20	-15	18	14	-15	2	18
56-43.9764-107.1319-2-11-						0-W08459	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	19
56-43.8486-107.2461-2-11-						0-W08460	-5	-5	-5	22	-20	-15	6	-10	-15	2	26
56-43.8139-107.2128-2-11-						0-W08461	-5	-5	-5	22	-20	19	10	-10	-15	2	28
56-43.8053-107.2436-2-12-						0-W08462	-5	-5	-5	19	-20	-15	7	-10	-15	2	17
56-43.7878-107.2239-2-11-						0-W08463	-5	-5	-5	18	-20	-15	-5	-10	-15	1	16
56-43.7589-107.2100-2-11-						0-W08464	-5	-5	-5	21	-20	16	5	-10	-15	2	21
56-43.6567-107.1414-2-11-						0-W08465	-5	-5	-5	22	-20	19	7	-10	-15	3	24
56-43.7222-107.1872-2-11-						0-W08466	-5	-5	-5	17	-20	-15	12	-10	-15	2	24
56-43.7219-107.1892-2-12-						0-W08467	-5	-5	-5	21	-20	-15	5	-10	-15	2	34
56-43.7464-107.1856-2-11-						0-W08468	-5	-5	-5	10	-20	-15	-5	-10	-15	-1	4
56-43.7475-107.2111-2-11-						0-W08469	-5	-5	-5	-10	-20	-15	-5	-10	-15	-1	3
56-43.7222-107.1672-2-11-						0-W08470	-5	-5	-5	23	-20	-15	7	-10	-15	3	34
56-43.7059-107.1561-2-11-						0-W08471	-5	-5	-5	11	-20	-15	13	-10	-15	2	23

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.6486-	107.2475-2-11-				0-W08417	39080	-0.04	483	32540	57	73	6.7	46	1.4	4	0.8	9405	9.8	15180	28	0.3
56-	43.6711-	107.2408-2-11-				0-W08418	36910	-0.05	346	40140	63	134	7.9	54	2.0	4	1.1	10700	12.6	14560	31	0.4
56-	43.6767-	107.2328-2-12-				0-W08419	44880	-0.05	417	33670	38	-82	5.9	31	-1.3	3	1.0	8957	7.7	15280	23	0.3
56-	43.7072-	107.2478-2-15-				0-W08420	23830	-0.03	350	12820	38	39	3.5	22	0.9	3	0.8	4899	17.0	12510	22	0.3
56-	43.7089-	107.2994-2-15-				0-W08422	49400	-0.04	391	40410	34	-73	7.5	36	2.3	4	0.8	9653	6.9	19240	22	0.3
56-	43.7456-	107.2881-2-15-				0-W08423	40430	-0.04	344	41670	48	-75	7.7	41	2.8	3	0.8	10260	8.0	19160	19	0.3
56-	43.7639-	107.3000-2-11-				0-W08424	39380	-0.04	434	34700	31	-71	4.9	33	-1.0	2	0.7	6538	8.6	14530	19	0.3
56-	43.7750-	107.3081-2-15-				0-W08425	40060	-0.03	340	76380	35	-65	6.0	40	2.0	3	0.7	9392	5.7	15410	20	0.3
56-	43.7919-	107.2825-2-15-				0-W08426	42380	-0.04	426	93710	36	-67	7.9	36	2.5	4	0.6	9447	3.4	16510	21	0.2
56-	43.7964-	107.3119-2-15-				0-W08427	32470	-0.04	357	67960	44	95	7.1	46	2.3	3	1.0	8695	9.8	13890	24	0.3
56-	43.7947-	107.3069-2-15-				0-W08428	40560	-0.05	322	90410	31	-80	6.7	37	2.8	3	0.6	10450	2.9	16160	20	0.2
56-	43.8586-	107.3069-2-15-				0-W08429	39850	-0.03	311	72750	39	-65	6.0	33	1.7	3	0.7	9587	6.2	14480	20	0.3
56-	43.8581-	107.3050-2-12-				0-W08430	36930	-0.03	441	36250	32	-57	5.7	29	1.6	3	0.6	7093	7.8	15510	16	0.2
56-	43.8625-	107.3047-2-12-				0-W08431	45400	-0.04	376	49460	59	-72	7.5	60	2.4	4	1.0	11530	10.2	15510	32	0.4
56-	43.8686-	107.3117-2-15-				0-W08432	46680	-0.05	352	58570	35	-83	6.9	28	2.9	3	0.8	10410	3.3	17290	21	0.2
56-	43.8672-	107.3222-2-15-				0-W08433	39730	-0.03	350	38790	38	-64	5.0	35	1.9	4	0.8	8659	9.8	15420	21	0.3
56-	43.8742-	107.3403-2-12-				0-W08434	36920	-0.03	372	43840	27	-56	5.8	22	1.4	3	0.7	6358	7.6	15260	15	0.2
56-	43.8903-	107.3303-2-11-				0-W08436	36490	-0.04	296	86280	38	-67	7.4	37	2.1	3	0.9	10200	5.9	16220	23	0.3
56-	43.8889-	107.2942-2-15-				0-W08437	32970	-0.04	362	103200	32	-70	4.6	40	1.8	2	0.6	7793	3.9	13610	17	0.2
56-	43.9133-	107.3017-2-11-				0-W08438	69390	-0.05	463	17320	61	-76	11.2	66	4.6	4	1.0	19020	3.5	28590	35	0.4
56-	43.9517-	107.2897-2-15-				0-W08439	46060	-0.04	394	51260	39	85	8.2	36	2.3	3	0.8	9560	5.2	19710	20	0.2
56-	43.9361-	107.2867-2-12-				0-W08440	37010	-0.04	361	47940	27	-68	4.2	25	-1.1	3	0.6	7419	6.5	13890	20	0.2
56-	43.9383-	107.2914-2-12-				0-W08441	47500	-0.06	394	55420	37	-67	7.5	49	-1.6	4	0.7	11100	5.2	15450	21	0.3
56-	43.9372-	107.2925-2-12-				0-W08442	29460	-0.03	291	41160	28	-52	5.1	31	1.3	3	0.6	5598	7.7	12150	15	0.2
56-	43.9358-	107.3089-2-12-				0-W08443	25690	-0.04	217	142700	33	-71	7.0	25	2.2	2	0.6	7358	3.8	8547	16	0.2
56-	43.9367-	107.3419-2-12-				0-W08446	40530	-0.05	371	46690	38	-61	5.1	33	-1.2	3	0.7	8046	7.6	15380	22	0.3
56-	43.9786-	107.2194-2-15-				0-W08447	23970	-0.02	354	4476	22	-33	3.8	22	1.2	2	0.5	4337	7.8	11660	11	0.2
56-	43.9833-	107.1969-2-15-				0-W08448	40540	-0.04	553	5942	66	-57	7.6	62	1.9	3	1.0	9794	16.5	17520	34	0.5
56-	43.9817-	107.1747-2-14-				0-W08449	56860	-0.06	758	5867	43	-60	8.7	47	2.7	4	1.1	11650	8.9	17180	24	0.2
56-	43.9486-	107.1767-2-15-				0-W08450	16120	-0.02	108	17860	16	63	3.0	20	0.7	1	0.3	3532	3.2	4592	9	0.1
56-	43.9056-	107.2256-2-11-				0-W08451	32050	-0.03	322	8018	25	-45	5.4	32	1.6	2	0.6	5972	8.4	10660	15	0.2
56-	43.8875-	107.2008-2-14-				0-W08452	28870	-0.04	281	6280	24	45	4.5	30	1.8	2	0.6	6093	8.4	10590	13	0.2
56-	43.9228-	107.1825-2-11-				0-W08453	32660	-0.04	441	4151	32	-51	4.5	39	1.6	3	0.7	6810	8.8	9919	20	0.2
56-	43.9353-	107.1358-2-15-				0-W08454	33570	-0.03	411	12670	24	76	5.7	28	-0.9	2	0.7	5938	8.1	12800	17	0.2
56-	43.9172-	107.1331-2-11-				0-W08455	29210	-0.04	334	7464	44	-56	6.3	41	1.9	2	0.9	6446	13.1	12680	23	0.3
56-	43.8650-	107.1764-2-11-				0-W08456	36240	-0.04	463	4833	40	-55	5.9	44	2.0	4	0.8	7946	9.5	11770	23	0.3
56-	43.8656-	107.1286-2-15-				0-W08457	48490	-0.04	671	6016	41	-69	6.6	45	2.6	4	0.9	9414	9.4	14870	26	0.3
56-	43.8494-	107.1625-2-11-				0-W08458	29200	-0.04	354	3273	38	-57	5.6	36	1.9	3	1.0	6403	12.3	9446	26	0.4
56-	43.9764-	107.1319-2-11-				0-W08459	32630	-0.04	429	9645	28	62	4.2	27	-1.0	2	0.7	5379	10.7	12800	15	0.2
56-	43.8486-	107.2461-2-11-				0-W08460	49050	-0.04	623	47780	54	119	7.2	44	2.6	3	0.8	10870	7.9	13840	29	0.3
56-	43.8139-	107.2128-2-11-				0-W08461	49480	-0.05	674	59430	40	-76	8.2	39	2.8	4	0.8	9536	5.5	12950	25	0.4
56-	43.8053-	107.2436-2-12-				0-W08462	35380	-0.05	478	42710	60	-71	7.9	34	1.8	2	1.0	9584	11.7	14600	28	0.4
56-	43.7878-	107.2239-2-11-				0-W08463	36640	-0.05	563	45360	44	152	5.6	28	-1.2	3	0.8	8466	9.1	13790	25	0.3
56-	43.7589-	107.2100-2-11-				0-W08464	45090	-0.04	494	62660	50	118	7.6	48	1.9	4	0.9	11420	7.7	13820	31	0.3
56-	43.6567-	107.1414-2-11-				0-W08465	62380	-0.05	543	13470	58	107	9.5	39	2.9	5	1.1	12740	7.3	34160	32	0.4
56-	43.7222-	107.1872-2-11-				0-W08466	48740	-0.05	560	5858	66	-72	8.9	58	2.7	3	1.1	12220	11.4	17640	34	0.4
56-	43.7210-	107.1903-2-12-				0-W08467	50930	-0.05	670	6270	55	-64	7.3	48	2.6	4	0.9	10700	8.7	20340	29	0.4
56-	43.7464-	107.1956-2-11-				0-W08468	6556	-0.02	-47	-315	5	-17	2.2	11	-0.4	1	0.4	765	9.1	-566	2	0.1
56-	43.7475-	107.2111-2-11-				0-W08469	8802	-0.02	71	-315	6	-20	2.8	-3	-0.5	1	0.2	1087	2.1	2171	6	0.0
56-	43.7222-	107.1672-2-11-				0-W08470	55950	-0.05	769	8566	79	-69	9.9	54	2.4	4	1.2	12780	11.4	23530	39	0.5
56-	43.7069-	107.1561-2-11-				0-W08471	55060	-0.06	910	7826	45	-59	6.8	34	2.1	4	1.1	10490	8.2	25490	32	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						NSL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.6486-	107.2475-2-11-					0-W08417	23200	337	6128	30	-1	4.7	3.4	-228	-1	-1	8.0	3120	47	2.6	45	0.375
56-43.6711-	107.2408-2-11-					0-W08418	29250	285	6034	-16	-1	5.2	4.6	-258	-1	-1	8.8	2713	49	3.2	55	0.341
56-43.6767-	107.2328-2-12-					0-W08419	24260	376	9850	-19	-1	4.9	2.1	-289	-1	-1	5.6	2755	57	1.7	-31	0.464
56-43.7072-	107.2478-2-15-					0-W08420	11410	163	2782	17	-1	2.8	2.7	-140			9.1	2033	24	2.6	22	0.341
56-43.7089-	107.2994-2-15-					0-W08422	30080	415	11180	25	-1	5.2	3.1	-251	-1	-1	5.5	3523	53	2.4	69	0.436
56-43.7456-	107.2881-2-15-					0-W08423	21460	339	9550	47	-1	5.3	3.7	-258	-1	-1	6.6	2526	39	2.1	56	0.318
56-43.7639-	107.3000-2-11-					0-W08424	22100	220	8775	29	-1	3.6	2.2	-234	-1	-1	5.4	2899	36	2.9	41	0.500
56-43.7750-	107.3081-2-15-					0-W08425	47130	394	6575	-14	-1	4.9	2.8	423		-1	6.5	3320	43	2.0	52	0.338
56-43.7919-	107.2825-2-15-					0-W08426	56770	355	5969	35	-1	4.9	2.4	696	-1	-1	5.0	3208	46	1.8	57	0.420
56-43.7964-	107.3119-2-15-					0-W08427	36840	288	6436	38	-1	4.8	3.7	443	-1	-1	6.3	2700	35	3.4	-36	0.365
56-43.7947-	107.3069-2-15-					0-W08428	54800	340	5847	-22	-2	5.1	1.2	889	-1	-1	4.6	3003	45	-1.3	-38	0.457
56-43.8586-	107.3069-2-15-					0-W08429	37710	401	7905	25	-1	4.9	3.3	290			6.0	2760	41	2.5	-16	0.350
56-43.8581-	107.3050-2-12-					0-W08430	27750	290	5901	-13	-1	3.7	2.3	-210	-1	-1	5.3	2627	46	1.9	34	0.491
56-43.8625-	107.3047-2-12-					0-W08431	32180	320	8934	32	-1	5.7	4.7	-252	-1	-1	8.4	3167	51	2.8	71	0.345
56-43.8686-	107.3117-2-15-					0-W08432	36640	372	9568	-19	-1	5.3	2.3	-284	-1	-1	5.3	3178	48	-1.3	-32	0.434
56-43.8672-	107.3222-2-15-					0-W08433	18700	340	9771	23	-1	4.4	3.0	-219			5.7	2978	41	2.5	47	0.456
56-43.8742-	107.3403-2-12-					0-W08434	23530	265	6834	23	-1	3.4	2.4	-198			4.3	2256	37	1.7	62	0.512
56-43.8903-	107.3303-2-11-					0-W08436	32830	365	5997	34	-1	5.0	3.6	-262	-1	-1	6.0	2032	40	2.2	-16	0.333
56-43.8889-	107.2942-2-15-					0-W08437	53500	260	5425	-18	-1	3.7	1.8	668	-1	-1	4.8	2135	34	-1.0	-29	0.417
56-43.9133-	107.3017-2-11-					0-W08438	37740	642	7204	56	-2	10.0	4.4	-335	-1	-1	8.6	5309	84	3.4	-77	0.302
56-43.9517-	107.2897-2-15-					0-W08439	49350	371	4445	-16	-1	5.1	2.6	281	-1	-1	5.3	3115	53	1.6	-29	0.472
56-43.9361-	107.2867-2-12-					0-W08440	28700	284	7580	-20	-1	3.3	1.7	-239	-1	-1	4.0	2530	50	1.9	-36	0.675
56-43.9383-	107.2914-2-12-					0-W08441	42470	379	6136	-26	-2	5.3	2.7	-269	-1	-1	5.2	3406	60	2.0	56	0.577
56-43.9372-	107.2925-2-12-					0-W08442	26970	268	4767	20	-1	3.0	1.9	-202			3.9	1994	36	1.3	41	0.590
56-43.9358-	107.3089-2-12-					0-W08443	21860	238	5272	31	-1	3.7	2.6	1542	-1	-1	4.0	1927	29	1.7	-31	0.375
56-43.9367-	107.3419-2-12-					0-W08446	30660	320	7202	-19	-1	4.1	2.4	307	-1	-1	5.0	3213	46	-1.1	-28	0.520
56-43.9786-	107.2194-2-15-					0-W08447	5213	200	2787	21	-1	2.3	1.4	-137			3.8	1520	24	1.3	-14	0.421
56-43.9833-	107.1969-2-15-					0-W08448	6859	330	5018	47	-1	5.1	4.4	-235	-1	-1	11.4	3064	47	3.6	-44	0.281
56-43.9817-	107.1747-2-14-					0-W08449	9929	376	6172	-25	-2	5.5	3.2	-244	-1	-1	9.2	3506	78	2.4	-43	0.359
56-43.9486-	107.1767-2-15-					0-W08450	18210	104	850	-8	-1	2.5	1.1	-103			2.7	1031	24	0.9	-12	0.333
56-43.9056-	107.2256-2-11-					0-W08451	9407	213	3332	-13	-1	3.3	1.8	-197	-1	-1	4.9	2250	45	1.9	38	0.429
56-43.8975-	107.2008-2-14-					0-W08452	6802	165	2943	-17	-1	3.2	1.2	190	-1	-1	3.8	2224	39	1.7	-30	0.526
56-43.9228-	107.1825-2-11-					0-W08453	6718	156	5355	-14	-1	3.3	3.3	-180	-1	-1	5.1	2477	36	2.3	49	0.431
56-43.9353-	107.1358-2-15-					0-W08454	11240	213	5695	24	-1	3.0	2.1	-216	-1	-1	4.3	2237	36	1.6	26	0.488
56-43.9172-	107.1331-2-11-					0-W08455	9347	117	5754	29	-1	3.4	2.4	-183	-1	-1	6.6	1794	34	2.3	-27	0.333
56-43.8650-	107.1764-2-11-					0-W08456	7176	204	5885	-14	-1	3.9	3.0	-197	-1	-1	6.5	2434	45	2.0	56	0.369
56-43.8656-	107.1286-2-15-					0-W08457	9379	365	7499	32	-1	4.9	3.1	-266	-1	-1	6.9	3433	65	2.0	61	0.435
56-43.8494-	107.1625-2-11-					0-W08458	6284	98	4992	-16	-1	3.6	4.6	-189	-1	-1	6.5	2226	30	3.1	59	0.338
56-43.9764-	107.1319-2-11-					0-W08459	9109	129	5910	-16	-1	2.8	2.0	-159	-1	-1	4.8	2482	35	1.5	-25	0.458
56-43.8486-	107.2461-2-11-					0-W08460	28140	351	7674	33	-1	5.2	3.5	-254	-1	-1	8.0	3431	57	2.7	60	0.325
56-43.8139-	107.2128-2-11-					0-W08461	33540	331	6616	32	-1	4.8	2.7	-299	-1	-1	6.3	2965	57	1.9	71	0.381
56-43.8053-	107.2436-2-12-					0-W08462	29590	332	6114	31	-1	4.3	3.8	-271	-1	-1	7.8	2659	44	2.9	89	0.308
56-43.7878-	107.2239-2-11-					0-W08463	36130	380	5960	-21	-1	3.6	1.7	-235	-1	-1	5.2	2565	47	2.5	44	0.481
56-43.7589-	107.2100-2-11-					0-W08464	43660	506	5350	29	-1	5.3	3.5	-260	-1	-1	8.8	2502	63	2.6	45	0.284
56-43.6567-	107.1414-2-11-					0-W08465	12820	741	3812	64	-1	6.1	4.1	-366	-1	-1	8.2	3021	46	3.5	38	0.390
56-43.7222-	107.1872-2-11-					0-W08466	6952	335	8365	53	-1	5.5	4.7	-269	-1	-1	10.3	3619	56	3.3	62	0.291
56-43.7219-	107.1892-2-12-					0-W08467	9255	390	8403	46	-2	5.2	3.1	-239	-1	-1	7.3	3511	60	2.7	-33	0.438
56-43.7464-	107.1856-2-11-					0-W08468	-782	9	637	-6	-1	0.9	0.4	-65			1.5	707	7	1.1	-10	1.200
56-43.7475-	107.2111-2-11-					0-W08469	-924	10	862	-8	-1	0.8	0.5	-86	-1		1.2	781	8	-0.5	-12	0.750
56-43.7222-	107.1672-2-11-					0-W08470	11110	255	6146	54	-2	6.3	5.7	-260	-1	-1	12.4	3069	47	3.8	87	0.250
56-43.7069-	107.1561-2-11-					0-W08471	8076	331	6115	-25	-2	5.1	2.5	-239	-1	-1	6.8	3010	48	2.3	-35	0.441

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.6822-107.1406-2-11-						0-W08472-08/14/76-12-			26-	15.0-	-	-	5.6-	120-		19-1-7-5-6-2-		-1-	-4-3-2-1-	-1-	-	-	-	-	3.20
56-43.6378-107.1842-2-12-						0-W08473-08/14/76-12-			28-	13.5-	-	-	6.4-	250-		8-1-7-5-6-2-3-1-2-3-3-3-1-		-1-	-	-	-	4.70
56-43.6036-107.2025-2-11-						0-W08474-08/14/76-13-			28-	9.5-	-	-	5.3-	35-		12-1-7-5-6-2-		-1-	-3-3-3-1-	-1-	-	-	-	-	3.80
56-43.5656-107.2397-2-11-						0-W08476-08/14/76-14-			26-	9.5-	-	-	5.2-	120-		11-1-7-5-6-2-		-1-	-3-3-4-1-	-1-	-	-	-	-	4.60
56-43.5569-107.2111-2-11-						0-W08477-08/14/76-14-			26-	10.0-	-	-	5.3-	40-		17-1-7-5-6-2-		-1-	-4-2-2-1-	-1-	-	-	-	-	2.90
56-43.5342-107.2372-2-11-						0-W08478-08/14/76-14-			26-	11.0-	-	-	5.4-	70-		17-1-7-4-6-2-		-1-	-1-3-3-1-	-1-	-	-	-	-	4.80
56-43.5175-107.2275-2-11-						0-W08479-08/14/76-15-			26-	9.0-	-	-	5.2-	150-		9-1-7-4-6-2-		-1-	-1-3-3-1-	-1-	-	-	-	-	3.80
56-43.5106-107.1667-2-15-						0-W08480-08/14/76-15-			26-		-	-	-	-		12-1-7-5-6-		-	-2-3-3-2-1-	-1-	-	-	-	-	3.30
56-43.5167-107.1444-2-11-						0-W08481-08/14/76-15-			24-	10.0-	-	-	5.6-	200-		17-1-7-4-6-2-		-1-	-3-3-2-1-	-1-	-	-	-	-	3.10
56-43.5269-107.1275-2-11-						0-W08482-08/14/76-16-			24-	12.0-	-	-	5.5-	240-		8-1-7-5-6-2-		-1-	-3-3-3-1-	-1-	-	-	-	-	2.80
56-43.5594-107.1583-2-11-						0-W08483-08/14/76-16-			24-	13.0-	-	-	5.2-	35-		4-1-7-5-6-2-		-1-	-4-3-3-1-	-1-	-	-	-	-	4.40
56-43.5708-107.1631-2-11-						0-W08484-08/14/76-16-			24-	10.0-	-	-	5.6-	60-		6-1-7-5-6-2-		-1-	-4-3-3-1-	-1-	-	-	-	-	4.20
56-43.5806-107.1461-2-12-						0-W08485-08/14/76-16-			22-	14.0-	-	-	6.0-	90-		14-1-7-5-6-2-3-1-2-4-2-2-1-		-1-	-	-	-	4.00
56-43.6083-107.1297-2-11-						0-W08486-08/14/76-17-			20-	10.0-	-	-	5.3-	240-		16-1-7-4-6-2-		-1-	-3-3-3-2-	-1-	-	-	-	-	2.50
56-43.7597-107.1675-2-11-						0-W08487-08/14/76-17-			30-	10.0-	-	-	6.9-	270-		8-1-7-5-6-3-3-1-		-3-3-3-1-	-1-	-	-	-	-	2.10
56-43.7719-107.1414-2-11-						0-W08488-08/14/76-17-			30-	9.0-	-	-	6.6-	300-		6-1-7-5-6-3-3-1-		-4-3-3-1-	-1-	-	-	-	-	2.40
56-43.7750-107.1822-2-11-						0-W08489-08/14/76-16-			30-	9.0-	-	-	6.5-	220-		4-1-7-5-6-3-3-1-		-4-3-3-1-	-1-	-	-	-	-	2.40
56-43.7969-107.1819-2-11-						0-W08490-08/14/76-16-			30-	9.0-	-	-	6.8-	230-		9-1-7-5-6-3-3-1-		-3-3-3-1-	-1-	-	-	-	-	2.40
56-43.8033-107.1614-2-11-						0-W08491-08/14/76-16-			30-	8.0-	-	-	6.3-	300-		8-1-7-5-6-3-3-1-		-3-3-3-1-	-1-	-	-	-	-	2.40
56-43.8178-107.1664-2-11-						0-W08492-08/14/76-16-			30-	9.0-	-	-	6.5-	250-		8-1-7-5-6-3-3-1-		-3-3-3-1-	-1-	-	-	-	-	3.90
56-43.7206-107.9025-2-15-						0-W08493-09/01/76-11-			28-		-C-	-	-	-		16-1-7-4-6-		-	-2-4-3-2-1-	-9-	-	-	-	-	2.10
56-43.7389-107.8681-2-15-						0-W08494-09/01/76-11-			28-		-C-	-	-	-		16-1-7-4-6-		-	-2-3-2-2-1-	-9-	-	-	-	-	3.30
56-43.7347-107.8456-2-15-						0-W08495-09/01/76-11-			28-		-C-	-	-	-		9-1-7-4-6-		-	-2-3-2-2-1-	-9-	-	-	-	-	3.20
56-43.7453-107.8267-2-15-						0-W08496-09/01/76-11-			28-		-	-	-	-		11-1-7-4-6-		-	-2-4-2-2-1-	-1-	-	-	-	-	3.50
56-43.7172-107.8431-2-15-						0-W08497-09/01/76-11-			28-		-C-	-	-	-		12-1-7-4-6-		-	-2-4-2-2-1-	-4-	-	-	-	-	3.20
56-43.7236-107.7683-2-15-						0-W08498-09/01/76-12-			30-		-	-	-	-		14-1-7-4-6-		-	-2-3-1-2-1-	-1-	-	-	-	-	3.50
56-43.7139-107.7711-2-97-						0-W08499-09/01/76-12-			30-		-	-	-	-		8-1-7-5-7-		-	-4-3-2-1-	-1-	-	-	-	-	4.00
56-43.6947-107.7519-2-15-						0-W08500-09/01/76-12-			32-		-	-	-	-		6-1-7-4-6-		-	-2-3-2-2-1-	-1-	-	-	-	-	3.30
56-43.6853-107.8267-2-15-						0-W08501-09/01/76-12-			32-		-	-	-	-		12-1-7-4-6-		-	-2-3-2-2-1-	-1-	-	-	-	-	3.90
56-43.6481-107.7719-2-15-						0-W08502-09/01/76-13-			32-		-	-	-	-		14-1-7-4-6-		-	-2-3-3-2-1-	-1-	-	-	-	-	3.60
56-43.6653-107.8000-2-15-						0-W08503-09/01/76-13-			32-		-	-	-	-		11-1-7-4-6-		-	-2-3-2-3-1-	-1-	-	-	-	-	3.80
56-43.6664-107.8028-2-15-						0-W08504-09/01/76-13-			32-		-	-	-	-		12-1-7-4-6-		-	-2-3-3-2-1-	-1-	-	-	-	-	3.60
56-43.6794-107.8264-2-15-						0-W08505-09/01/76-13-			32-		-	-	-	-		9-1-7-4-6-		-	-2-3-2-2-1-	-1-	-	-	-	-	3.10
56-43.6800-107.8406-2-15-						0-W08506-09/01/76-13-			32-		-	-	-	-		14-1-7-4-6-		-	-2-3-2-2-1-	-1-	-	-	-	-	3.30
56-43.6856-107.8372-2-15-						0-W08507-09/01/76-13-			32-		-	-	-	-		14-1-7-4-6-		-	-2-3-2-2-1-	-1-	-	-	-	-	2.80
56-43.8931-107.9422-2-12-						0-W08508-09/01/76-10-			23-	16.0-	-	-	6.3-	600-		15-1-7-5-6-3-3-1-		-4-3-2-1-	-1-	-	-	-	-	3.40
56-43.8678-107.8703-2-15-						0-W08509-09/01/76-11-			28-		-	-	-	-		15-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	2.90
56-43.8156-107.8811-2-15-						0-W08510-09/01/76-11-			28-		-	-	-	-		9-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	3.20
56-43.8500-107.9039-2-15-						0-W08511-09/01/76-11-			30-		-	-	-	-		9-1-7-4-6-		-	-4-3-2-1-	-1-	-	-	-	-	7.70
56-43.8622-107.9056-2-15-						0-W08512-09/01/76-11-			30-		-	-	-	-		6-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	3.50
56-43.8594-107.9300-2-15-						0-W08513-09/01/76-12-			30-		-	-	-	-		15-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	3.80
56-43.8603-107.9300-2-15-						0-W08514-09/01/76-12-			30-		-	-	-	-		15-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	2.80
56-43.8561-107.9622-2-15-						0-W08515-09/01/76-12-			30-		-	-	-	-		9-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	3.10
56-43.8672-107.9711-2-15-						0-W08516-09/01/76-12-			30-		-	-	-	-		12-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	2.60
56-43.8294-107.9464-2-15-						0-W08517-09/01/76-13-			31-		-	-	-	-		12-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	2.80
56-43.7883-107.9589-2-15-						0-W08518-09/01/76-13-			30-		-	-	-	-		12-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	3.40
56-43.8106-107.9164-2-15-						0-W08519-09/01/76-13-			31-		-	-	-	-		6-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	2.60
56-43.8017-107.9019-2-15-						0-W08520-09/01/76-13-			31-		-	-	-	-		6-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	3.00
56-43.7989-107.9050-2-15-						0-W08521-09/01/76-13-			31-		-	-	-	-		9-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	3.00
56-43.8744-107.7711-2-15-						0-W08522-09/01/76-14-			31-		-	-	-	-		12-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	2.90
56-43.8669-107.7679-2-15-						0-W08523-09/01/76-14-			31-		-	-	-	-		6-1-7-4-6-		-	-4-3-3-1-	-1-	-	-	-	-	2.70

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.6822-107.1406-2-11-						0-W08472	-5	-5	-5	14	-20	-15	12	-10	-15	2	20
56-43.6378-107.1842-2-12-						0-W08473	-5	-5	-5	18	-20	16	10	-10	-15	2	26
56-43.6036-107.2025-2-11-						0-W08474	-5	-5	-5	22	-20	-15	6	-10	-15	2	33
56-43.5656-107.2397-2-11-						0-W08476	-5	-5	-5	17	-20	-15	16	-10	-15	3	37
56-43.5569-107.2111-2-11-						0-W08477	-5	-5	-5	16	-20	-15	14	-10	-15	2	26
56-43.5342-107.2372-2-11-						0-W08478	-5	-5	-5	16	-20	15	8	-10	-15	2	24
56-43.5175-107.2275-2-11-						0-W08479	-5	-5	-5	21	-20	21	-5	-10	-15	2	32
56-43.5106-107.1667-2-15-						0-W08480	-5	-5	-5	32	-20	25	23	-10	-15	2	20
56-43.5167-107.1444-2-11-						0-W08481	-5	-5	-5	13	-20	-15	9	-10	-15	2	28
56-43.5269-107.1275-2-11-						0-W08482	-5	-5	-5	24	-20	24	11	-10	-15	2	27
56-43.5594-107.1583-2-11-						0-W08483	-5	-5	-5	16	-20	-15	8	-10	-15	2	23
56-43.5708-107.1631-2-11-						0-W08484	-5	-5	-5	16	-20	-15	8	-10	-15	3	43
56-43.5806-107.1461-2-12-						0-W08485	-5	-5	-5	12	-20	-15	13	-10	-15	2	30
56-43.6083-107.1297-2-11-						0-W08486	-5	-5	-5	24	-20	-15	-5	-10	-15	3	42
56-43.7597-107.1675-2-11-						0-W08487	-5	-5	-5	25	-20	-15	8	-10	-15	2	19
56-43.7719-107.1414-2-11-						0-W08488	-5	-5	-5	18	-20	20	15	-10	-15	3	24
56-43.7750-107.1822-2-11-						0-W08489	-5	-5	-5	19	-20	-15	8	-10	-15	2	27
56-43.7969-107.1819-2-11-						0-W08490	-5	-5	-5	23	-20	-15	6	-10	-15	3	37
56-43.8033-107.1614-2-11-						0-W08491	-5	-5	-5	16	-20	-15	9	-10	-15	2	29
56-43.8178-107.1664-2-11-						0-W08492	-5	-5	-5	23	-20	23	9	-10	-15	2	46
56-43.7206-107.9025-2-15-						0-W08493	-5	-5	-5	17	-20	-15	-5	-10	-15	1	19
56-43.7389-107.8681-2-15-						0-W08494	-5	-5	-5	19	-20	-15	8	-10	-15	3	51
56-43.7347-107.8456-2-15-						0-W08495	-5	-5	-5	22	-20	25	8	-10	-15	2	57
56-43.7453-107.8267-2-15-						0-W08496	-5	-5	-5	24	-20	20	8	-10	-15	3	65
56-43.7172-107.8431-2-15-						0-W08497	-5	-5	-5	18	-20	-15	8	-10	-15	3	65
56-43.7236-107.7683-2-15-						0-W08498	-5	-5	-5	20	-20	-15	9	-10	-15	3	43
56-43.7139-107.7711-2-97-						0-W08499	-5	-5	-5	22	-20	25	8	-10	-15	4	95
56-43.6967-107.7519-2-15-						0-W08500	-5	-5	-5	21	-20	17	10	-10	-15	2	33
56-43.6853-107.8267-2-15-						0-W08501	-5	-5	-5	12	-20	-15	10	-10	-15	3	45
56-43.6481-107.7719-2-15-						0-W08502	-5	-5	-5	11	-20	-15	15	-10	-15	3	54
56-43.6652-107.8000-2-15-						0-W08503	-5	-5	-5	18	-20	-15	-5	-10	-15	2	44
56-43.6664-107.8028-2-15-						0-W08504	-5	-5	-5	19	-20	-15	9	-10	-15	2	44
56-43.6794-107.8264-2-15-						0-W08505	-5	-5	-5	18	-20	-15	7	-10	-15	2	44
56-43.6800-107.8406-2-15-						0-W08506	-5	-5	-5	18	-20	24	11	-10	-15	3	63
56-43.6856-107.8372-2-15-						0-W08507	-5	-5	-5	-10	-20	-15	5	-10	-15	2	33
56-43.8931-107.9422-2-12-						0-W08508	-5	-5	-5	18	-20	-15	10	-10	-15	2	43
56-43.8678-107.8703-2-15-						0-W08509	-5	-5	-5	12	-20	-15	9	-10	-15	2	18
56-43.8156-107.8811-2-15-						0-W08510	-5	-5	-5	13	-20	-15	7	-10	-15	2	21
56-43.8500-107.9039-2-15-						0-W08511	-5	-5	-5	10	-20	21	7	-10	-15	2	35
56-43.8622-107.9056-2-15-						0-W08512	-5	-5	-5	24	-20	-15	15	-10	-15	3	47
56-43.8594-107.9300-2-15-						0-W08513	-5	-5	-5	28	-20	-15	14	-10	-15	3	27
56-43.8603-107.9300-2-15-						0-W08514	-5	-5	-5	16	-20	-15	6	-10	-15	2	14
56-43.8561-107.9622-2-15-						0-W08515	-5	-5	-5	20	-20	-15	8	-10	-15	2	26
56-43.8672-107.9711-2-15-						0-W08516	-5	-5	-5	15	-20	16	11	-10	-15	2	17
56-43.8294-107.9464-2-15-						0-W08517	-5	-5	-5	18	-20	-15	5	-10	-15	2	16
56-43.7883-107.9589-2-15-						0-W08518	-5	-5	-5	18	-20	-15	-5	-10	-15	2	29
56-43.8106-107.9164-2-15-						0-W08519	-5	-5	-5	17	-20	-15	11	-10	-15	2	26
56-43.8017-107.9019-2-15-						0-W08520	-5	-5	-5	22	-20	-15	10	-10	-15	2	27
56-43.7999-107.9050-2-15-						0-W08521	-5	-5	-5	15	-20	-15	9	-10	-15	2	23
56-43.8744-107.7711-2-15-						0-W08522	-5	-5	-5	12	-20	-15	7	-10	-15	1	12
56-43.8662-107.7678-2-15-						0-W08523	-5	-5	-5	11	-20	-15	-5	-10	-15	2	14

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)													
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.6822-	107.1406-	2-	11-	0-	W08472	54280	-0.04	862	8891	86	-57	8.4	46	3.3	5	1.5	16330	12.5	25250	42	0.5
56-	43.6378-	107.1842-	2-	12-	0-	W08473	40720	-0.04	757	4255	82	-55	7.2	40	1.5	6	1.2	9209	23.6	19640	42	0.6
56-	43.6036-	107.2025-	2-	11-	0-	W08474	52320	-0.04	616	5426	65	-65	7.3	48	2.7	4	1.2	12170	11.2	15190	35	0.3
56-	43.5656-	107.2397-	2-	11-	0-	W08476	56750	-0.05	711	8711	105	-71	11.7	73	4.1	5	1.8	19180	16.7	17450	55	0.5
56-	43.5569-	107.2111-	2-	11-	0-	W08477	50200	-0.07	650	5772	57	187	10.1	43	3.1	7	1.5	11660	9.2	19190	27	0.5
56-	43.5342-	107.2372-	2-	11-	0-	W08478	51910	-0.06	556	15190	53	-97	8.1	40	-1.7	5	1.1	12970	15.2	14850	30	0.3
56-	43.5175-	107.2275-	2-	11-	0-	W08479	53870	-0.05	501	14580	54	164	9.6	41	2.4	4	1.1	15900	11.8	14350	34	0.3
56-	43.5106-	107.1667-	2-	15-	0-	W08480	53180	-0.05	639	5739	84	-75	16.8	76	4.3	5	1.5	19730	12.7	14470	46	0.5
56-	43.5167-	107.1444-	2-	11-	0-	W08481	55210	-0.05	641	12510	57	-67	7.7	39	2.1	4	1.0	12560	7.4	25550	31	0.3
56-	43.5269-	107.1275-	2-	11-	0-	W08482	51930	-0.05	515	25010	40	-72	6.4	26	-1.4	3	0.8	10240	5.7	22020	25	0.3
56-	43.5594-	107.1583-	2-	11-	0-	W08483	46030	-0.04	694	5168	68	-50	8.0	35	2.0	5	1.1	11960	16.4	23200	37	0.4
56-	43.5708-	107.1631-	2-	11-	0-	W08484	53820	-0.05	772	5434	107	-52	13.0	64	3.8	5	1.6	19100	17.1	26320	49	0.6
56-	43.5806-	107.1461-	2-	12-	0-	W08485	46760	-0.04	648	5153	62	-64	8.0	33	2.0	5	1.2	11380	13.6	24670	32	0.4
56-	43.6083-	107.1297-	2-	11-	0-	W08486	64200	-0.06	467	25090	52	-45	7.9	29	2.4	4	0.9	12540	3.5	40990	29	0.2
56-	43.7597-	107.1675-	2-	11-	0-	W08487	45170	-0.04	1250	48040	55	111	6.1	38	1.7	3	0.9	10720	6.8	13360	32	0.3
56-	43.7719-	107.1414-	2-	11-	0-	W08488	48260	-0.04	1529	50440	89	123	10.3	48	2.8	4	1.4	16570	12.2	15340	47	0.4
56-	43.7750-	107.1822-	2-	11-	0-	W08489	45580	-0.05	567	55090	48	127	9.2	40	2.5	3	0.9	10090	7.2	11620	24	0.3
56-	43.7969-	107.1819-	2-	11-	0-	W08490	49160	-0.05	619	50560	40	-70	8.9	38	2.1	3	0.8	11260	5.6	12850	26	0.2
56-	43.8033-	107.1614-	2-	11-	0-	W08491	48070	-0.06	683	36570	70	-78	9.1	53	3.1	3	1.0	15560	8.8	13240	32	0.3
56-	43.8178-	107.1664-	2-	11-	0-	W08492	55240	-0.05	649	16170	61	125	11.2	57	2.1	5	1.2	17050	12.0	11480	-3	0.4
56-	43.7206-	107.9025-	2-	15-	0-	W08493	34870	-0.05	487	157800	23	-67	5.8	19	2.7	2	0.5	6050	3.0	10490	15	0.2
56-	43.7389-	107.8681-	2-	15-	0-	W08494	54500	-0.05	644	39600	54	-68	8.6	43	4.8	3	1.3	14870	5.5	15450	34	0.3
56-	43.7347-	107.8456-	2-	15-	0-	W08495	54310	-0.05	661	42730	42	421	5.5	34	3.5	3	0.9	11380	4.9	16520	14	0.2
56-	43.7453-	107.8267-	2-	15-	0-	W08496	62390	-0.05	938	23840	48	124	-0.7	50	3.7	4	1.1	16370	4.0	18050	-3	0.3
56-	43.7172-	107.8431-	2-	15-	0-	W08497	53170	-0.04	802	33670	40	-57	5.7	37	3.2	4	0.9	11490	4.0	17940	23	0.3
56-	43.7236-	107.7683-	2-	15-	0-	W08498	52070	-0.05	790	46120	59	-68	8.7	52	3.1	3	1.1	14080	6.7	14510	30	0.3
56-	43.7139-	107.7711-	2-	97-	0-	W08499	85460	-0.08	707	20390	57	-67	9.0	71	6.2	4	1.2	17990	-1.7	19130	9	-0.2
56-	43.6967-	107.7519-	2-	15-	0-	W08500	50540	-0.04	888	36900	51	-61	-0.6	39	2.8	4	1.2	14270	7.1	14910	-2	0.2
56-	43.6853-	107.8267-	2-	15-	0-	W08501	49910	-0.04	712	15480	41	136	5.7	33	2.6	4	0.9	9024	6.7	16930	24	0.2
56-	43.6481-	107.7719-	2-	15-	0-	W08502	46560	-0.05	814	16830	57	135	8.0	44	3.0	3	1.0	12270	8.9	14560	31	0.4
56-	43.6653-	107.8000-	2-	15-	0-	W08503	44860	-0.05	613	13040	37	-123	5.9	32	2.0	3	1.0	9429	7.1	13020	12	0.3
56-	43.6664-	107.8028-	2-	15-	0-	W08504	49410	-0.03	927	16360	45	-54	7.0	40	2.8	4	1.1	12440	9.3	18390	36	0.3
56-	43.6794-	107.8264-	2-	15-	0-	W08505	45830	-0.03	739	17870	34	151	5.5	27	1.9	3	0.8	8518	5.1	15810	23	0.2
56-	43.6800-	107.8406-	2-	15-	0-	W08506	53470	-0.05	776	17160	69	-60	9.9	59	4.3	4	1.2	16780	6.8	16200	33	0.3
56-	43.6856-	107.8372-	2-	15-	0-	W08507	41230	-0.03	782	7455	34	117	2.8	17	-0.9	3	1.0	5054	6.9	17100	6	0.1
56-	43.8931-	107.9422-	2-	12-	0-	W08508	47890	-0.04	620	6028	47	-36	6.2	39	2.8	4	1.0	9379	6.8	15290	30	0.3
56-	43.8678-	107.8703-	2-	15-	0-	W08509	39850	-0.03	595	10250	40	-38	5.4	32	2.8	4	0.7	8331	8.0	12270	26	0.2
56-	43.8156-	107.8811-	2-	15-	0-	W08510	39460	-0.04	591	10580	66	-42	7.4	50	2.2	4	0.9	11430	12.9	11120	33	0.4
56-	43.8500-	107.9039-	2-	15-	0-	W08511	47390	-0.06	475	10890	110	-75	7.7	51	-1.5	7	1.2	14080	26.0	19960	63	0.7
56-	43.8622-	107.9056-	2-	15-	0-	W08512	79010	-0.04	692	16260	64	-49	7.8	55	4.7	4	1.2	12320	6.2	15570	-3	0.3
56-	43.8594-	107.9300-	2-	15-	0-	W08513	59160	-0.04	570	4696	45	-30	6.8	38	3.5	4	0.9	8675	4.9	15330	26	0.3
56-	43.8603-	107.9300-	2-	15-	0-	W08514	35450	-0.04	524	3755	59	-32	6.3	43	2.3	3	0.8	9851	12.2	10830	31	0.4
56-	43.8561-	107.9622-	2-	15-	0-	W08515	45120	-0.04	409	11050	46	-44	5.1	35	2.1	3	0.8	8533	9.0	13890	15	0.3
56-	43.8672-	107.9711-	2-	15-	0-	W08516	36270	-0.03	536	10550	43	-36	-0.5	38	2.4	3	0.9	9637	6.4	10630	24	0.3
56-	43.8294-	107.9464-	2-	15-	0-	W08517	41980	-0.03	438	2121	39	-24	4.4	30	2.2	3	0.6	6253	10.2	10670	23	0.2
56-	43.7883-	107.9589-	2-	15-	0-	W08518	58290	-0.04	525	9629	77	-41	7.3	65	4.4	4	1.1	12950	14.4	14090	41	0.5
56-	43.8106-	107.9164-	2-	15-	0-	W08519	44180	-0.04	479	9532	31	47	4.9	23	2.8	3	0.7	7397	3.6	15140	22	0.3
56-	43.8017-	107.9019-	2-	15-	0-	W08520	49160	-0.03	544	11070	53	-60	-0.6	51	2.1	3	1.1	11060	9.7	14500	41	0.3
56-	43.7989-	107.9050-	2-	15-	0-	W08521	45550	-0.03	459	3685	34	-28	5.0	32	2.3	3	0.6	8904	6.3	11330	22	0.2
56-	43.8744-	107.7711-	2-	15-	0-	W08522	27120	-0.03	474	-351	62	-26	4.6	33	2.0	4	0.9	5980	15.5	13040	31	0.4
56-	43.8669-	107.7678-	2-	15-	0-	W08523	29810	-0.04	506	1011	38	36	4.2	23	-0.9	4	0.8	4675	9.9	11400	22	0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.6822-107.1406-2-11-					0-	W08472	10230	265	6219	66	-1	6.8	6.2	-205	-1	-1	11.5	3028	51	4.0	42	0.278
56-43.6378-107.1842-2-12-					0-	W08473	6785	245	6127	31	-1	4.6	5.9	-211	-1	-1	14.9	4443	42	3.7	-26	0.315
56-43.6036-107.2025-2-11-					0-	W08474	9457	564	7378	34	-1	5.6	4.3	-283	-1	-1	9.9	3699	66	2.7	54	0.384
56-43.5656-107.2397-2-11-					0-	W08476	9670	375	8526	53	-2	8.1	8.2	-255	-1	-1	18.1	4215	87	4.3	117	0.254
56-43.5569-107.2111-2-11-					0-	W08477	9871	228	5914	-31	-2	5.5	6.4	-298	-1	-1	8.0	2955	59	3.9	-50	0.363
56-43.5342-107.2372-2-11-					0-	W08478	16930	493	10630	-29	-2	6.9	3.6	-339	-1	-1	11.0	5607	78	-2.0	-56	0.436
56-43.5175-107.2275-2-11-					0-	W08479	10530	645	10810	-23	-2	7.7	4.0	-345	-1	-1	10.6	4396	72	4.0	87	0.358
56-43.5106-107.1667-2-15-					0-	W08480	10920	917	5498	48	-2	8.4	7.4	-356	-1	-1	12.8	3841	68	4.3	120	0.258
56-43.5167-107.1444-2-11-					0-	W08481	12770	318	6960	41	-1	5.0	3.7	-254	-1	-1	8.9	3097	52	2.4	-52	0.348
56-43.5269-107.1275-2-11-					0-	W08482	28010	547	5485	-25	-2	4.4	2.6	-319	-1	-1	5.7	2662	53	1.9	-45	0.491
56-43.5594-107.1583-2-11-					0-	W08483	6326	361	4846	48	1	5.1	4.8	-219	-1	-1	12.2	3248	49	4.0	62	0.361
56-43.5708-107.1631-2-11-					0-	W08484	9131	420	4360	84	-2	8.3	7.9	-238	-1	-1	17.0	3220	57	5.5	-22	0.247
56-43.5806-107.1461-2-12-					0-	W08485	6329	487	5380	54	-1	4.6	5.0	-277	-1	-1	10.5	3443	41	4.2	58	0.381
56-43.6082-107.1297-2-11-					0-	W08486	16260	299	1625	-29	-2	5.8	2.7	-254	-2	-1	8.2	3223	50	2.0	-45	0.305
56-43.7597-107.1675-2-11-					0-	W08487	36640	510	4294	-15	-1	4.7	3.1	-254	-1	-1	8.4	2409	49	1.8	29	0.250
56-43.7719-107.1414-2-11-					0-	W08488	35740	579	4140	30	-1	6.9	6.0	-264	-1	-1	14.7	2400	53	3.9	60	0.163
56-43.7750-107.1822-2-11-					0-	W08489	30120	280	7338	-21	-1	4.4	4.0	-263	-1	-1	8.0	2764	51	2.5	80	0.300
56-43.7949-107.1819-2-11-					0-	W08490	31600	273	7340	-22	-1	4.5	2.8	-242	-1	-1	6.0	3310	56	1.9	-20	0.400
56-43.8033-107.1614-2-11-					0-	W08491	30160	348	7451	46	-2	6.0	4.2	-294	-1	-1	8.7	3065	61	2.5	-79	0.276
56-43.8178-107.1664-2-11-					0-	W08492	15240	676	11300	-22	-2	8.1	4.4	-362	-1	-1	12.1	4522	88	3.0		0.322
56-43.7206-107.9025-2-15-					0-	W08493	34520	103	5640	-21	-1	2.5	1.7	869	-1	-1	3.4	1363	50	-1.2	394	0.618
56-43.7389-107.8681-2-15-					0-	W08494	26860	222	7328	49	-1	6.2	5.2	-237	-1	-1	8.9	2819	105	2.6	-78	0.371
56-43.7347-107.8456-2-15-					0-	W08495	28540	224	7595	-20	-2	4.8	2.7	-239	-1	-1	5.9	2370	105	1.9	-6	0.542
56-43.7453-107.8267-2-15-					0-	W08496	23280	226	7551	-19	-1	6.9	3.4	-230	-1	-1	7.2	3895	137	2.2		0.486
56-43.7172-107.8431-2-15-					0-	W08497	25530	232	7240	35	1	4.7	3.4	-197	-1	-1	6.0	2699	108	2.0	70	0.533
56-43.7236-107.7683-2-15-					0-	W08498	25540	291	7461	38	-1	6.0	5.3	-245	-1	-1	8.0	2699	90	2.3	71	0.438
56-43.7139-107.7711-2-97-					0-	W08499	23040	232	3704	67	-3	10.3	3.3	-293	-1	-1	9.7	3475	236	-2.1	-140	0.412
56-43.6967-107.7519-2-15-					0-	W08500	20130	318	7331	-14	-1	5.2	3.3	355	-1	1	7.2	3053	93	2.1		0.458
56-43.6853-107.8267-2-15-					0-	W09501	12500	163	12360	33	-1	3.8	3.5	300	-1	-1	7.4	2421	68	2.3	-27	0.527
56-43.6481-107.7719-2-15-					0-	W08502	12370	240	15270	45	-1	5.1	4.2	-265	-1	-1	9.2	2539	74	2.0	72	0.391
56-43.6653-107.8000-2-15-					0-	W08503	18740	201	28590	-22	-1	3.8	2.8	-330	-1	-1	6.4	2582	73	2.2	-38	0.594
56-43.6664-107.8028-2-15-					0-	W08504	16140	230	7191	-14	-1	4.9	3.3	314	-1	-1	8.0	2888	92	2.0		0.450
56-43.6794-107.8264-2-15-					0-	W08505	17020	218	17790	40	-1	3.6	2.8	-226	-1	-1	6.7	2186	72	1.6	28	0.463
56-43.6800-107.8406-2-15-					0-	W08506	16610	243	5917	52	-2	7.2	4.7	-238	-1	-1	9.0	3294	120	2.1	-74	0.367
56-43.6856-107.8372-2-15-					0-	W08507	-2736	113	9689	-15	-1	2.0	2.4	-186	-1	-1	6.2	1495	33	1.9	-58	0.452
56-43.8931-107.9422-2-12-					0-	W08508	9084	125	2322	-14	-1	5.5	3.4	-162	-1	-1	7.7	3421	93	2.6		0.442
56-43.8678-107.8703-2-15-					0-	W08509	7518	223	3101	-14	-1	3.8	2.7	-162	-1	-1	6.1	2754	58	2.2	32	0.475
56-43.8156-107.8811-2-15-					0-	W08510	9082	185	3031	-16	-1	5.2	5.1	-182	-1	-1	9.3	3210	67	3.5	62	0.344
56-43.8500-107.9039-2-15-					0-	W08511	9526	431	8500	-24	-2	6.6	9.2	-293	-1	-1	32.8	4677	53	4.7		0.235
56-43.8622-107.9056-2-15-					0-	W08512	17370	197	3889	-17	-1	8.1	3.9	-200	-1	-1	9.0	4366	117	2.6		0.389
56-43.8594-107.9300-2-15-					0-	W08513	7708	131	1505	-15	-1	5.8	3.4	-158	-1	-1	7.7	3480	96	2.2	45	0.494
56-43.8603-107.9300-2-15-					0-	W08514	5355	140	1700	28	2	4.4	4.0	-178	-1	-1	7.8	2730	57	3.0	44	0.359
56-43.8561-107.9622-2-15-					0-	W08515	8868	173	3174	-18	-1	4.5	2.1	-207	-1	-1	6.1	2790	70	2.1	-178	0.508
56-43.8672-107.9711-2-15-					0-	W08516	9230	238	2452	-11	-1	4.0	3.0	-178		-1	5.7	2641	60	2.1		0.456
56-43.8294-107.9464-2-15-					0-	W08517	4400	103	852	-12	-1	3.4	2.9	-143	-1	-1	5.1	3237	59	2.3	55	0.549
56-43.7883-107.9589-2-15-					0-	W08518	12700	241	4072	41	-1	7.3	5.8	-168	-1	-1	11.2	4006	82	3.6	-21	0.304
56-43.8106-107.9164-2-15-					0-	W08519	8914	209	3591	-16	-1	4.0	1.9	-180	-1	-1	6.7	2571	47	1.5	-77	0.388
56-43.8017-107.9019-2-15-					0-	W08520	14520	286	6027	-13	-1	5.5	3.5	-232		-1	8.0	2759	67	2.5		0.375
56-43.7989-107.9050-2-15-					0-	W08521	6813	119	1770	32	-1	4.2	2.3	-125	-1	-1	5.3	3167	77	1.9	39	0.566
56-43.8744-107.7711-2-15-					0-	W08522	4036	137	1535	35	-1	3.3	3.9	-119	-1	-1	8.1	2953	39	2.6	36	0.358
56-43.8669-107.7678-2-15-					0-	W08523	3897	84	662	-15	-1	2.8	2.2	-116	-1	-1	4.6	2474	37	2.3	-88	0.587

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	RER-CATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.9011-107.7672-2-15-						0-W08524-09/01/76-14-	31-		-	-	-	-	-	-	9-1-7-4-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.10
56-43.9139-107.8267-2-15-						0-W08525-09/01/76-14-	32-		-	-	-	-	-	-	6-1-7-4-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.60
56-43.9147-107.8456-2-15-						0-W08526-09/01/76-14-	31-		-	-	-	-	-	-	6-1-7-4-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.10
56-43.9186-107.8550-2-15-						0-W08527-09/01/76-14-	32-		-	-	-	-	-	-	3-1-7-4-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.20
56-43.7989-107.8561-2-15-						0-W08528-09/01/76-15-	31-		-	-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.90
56-43.8100-107.8258-2-15-						0-W08529-09/01/76-15-	31-		-	-	-	-	-	-	12-1-7-4-6-	-	-	-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.60
56-43.8042-107.8078-2-15-						0-W08530-09/01/76-15-	30-		-	-	-	-	-	-	9-1-7-4-6-	-	-	-	-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.00
56-43.8056-107.8081-2-15-						0-W08531-09/01/76-15-	30-		-	-	-	-	-	-	9-1-7-4-6-	-	-	-	-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.90
56-43.7817-107.8406-2-15-						0-W08532-09/01/76-15-	30-		-	-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.10
56-43.7672-107.8283-2-12-						0-W08533-09/01/76-15-	30-	16.0	-	-	6.6	-	3200	-	12-1-7-5-6-2-2-3-				-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.20
56-43.7606-107.8303-2-15-						0-W08534-09/01/76-15-	30-		-	-	-	-	-	-	12-1-7-4-6-	-	-	-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.00
56-43.7899-107.7681-2-15-						0-W08535-09/01/76-16-	29-		-	-	-	-	-	-	9-1-7-4-6-	-	-	-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.70
56-43.7878-107.7667-2-15-						0-W08536-09/01/76-16-	29-		-	-	-	-	-	-	9-1-7-4-6-	-	-	-	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.40
56-43.6031-107.9861-2-15-						0-W08538-09/02/76-15-	35-		-	-	-	-	-	-	13-1-4-4-4-		-1-		-1-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.90
56-43.6044-107.9517-2-15-						0-W08539-09/02/76-15-	35-		-	-	-	-	-	-	10-1-4-4-4-		-1-		-1-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.10
56-43.5872-107.2639-2-11-						0-W08540-09/01/76-12-	35-	22.0	-	-	6.3	-	34	-	19-1-7-6-8-3-3-1-				-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.50
56-43.5239-107.2767-2-11-						0-W08541-09/01/76-12-	35-	15.0	-	-	6.6	-	50	-	19-1-7-4-6-3-3-1-				-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	5.00
56-43.5547-107.2878-2-12-						0-W08543-09/01/76-13-	29-	20.0	-	-	6.9	-	120	-	16-1-7-4-6-3-3-1-				-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.70
56-43.5550-107.3100-2-11-						0-W08544-09/01/76-14-	29-	15.0	-	-	6.3	-	420	-	19-1-7-6-8-3-3-1-				-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.30
56-43.5539-107.3422-2-12-						0-W08545-09/01/76-14-	27-	17.0	-	-	6.6	-	280	-	9-1-7-4-6-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.50
56-43.5422-107.3556-2-11-						0-W08546-09/01/76-14-	27-	17.0	-	-	6.3	-	360	-	6-1-7-5-6-3-3-1-				-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.30
56-43.5067-107.3472-2-11-						0-W08547-09/01/76-15-	25-	17.0	-	-	6.9	-	260	-	12-1-7-5-6-3-3-1-				-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.20
56-43.6167-107.7672-2-12-						0-W08548-09/02/76-10-	25-	16.0	-	-	6.6	-	4000	-	9-1-7-5-6-3-3-1-				-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.30
56-43.6128-107.7750-2-15-						0-W08549-09/02/76-10-	25-		-	-	-	-	-	-	16-1-7-5-7-				-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.10
56-43.6261-107.7450-2-15-						0-W08550-09/02/76-10-	25-		-	-	-	-	-	-	12-1-7-5-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.10
56-43.6244-107.7461-2-15-						0-W08551-09/02/76-10-	25-		-	-	-	-	-	-	16-1-7-4-6-	-	-	-	-3-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	2.30
56-43.6461-107.7400-2-15-						0-W08552-09/02/76-11-	27-		-	-	-	-	-	-	9-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.10
56-43.6333-107.6878-2-15-						0-W08553-09/02/76-11-	27-		-	-	-	-	-	-	16-1-7-5-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.30
56-43.5922-107.7083-2-11-						0-W08554-09/02/76-12-	29-	23.0	-	-	7.2	-	1100	-	6-1-7-6-8-2-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.30
56-43.5650-107.7028-2-12-						0-W08555-09/02/76-13-	33-	21.0	-	-	6.6	-	550	-	16-1-7-3-6-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.30
56-43.5772-107.6733-2-12-						0-W08556-09/02/76-13-	35-	20.0	-	-	6.3	-	470	-	12-1-7-3-6-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.10
56-43.5439-107.7350-2-12-						0-W08557-09/02/76-14-	32-	20.0	-	-	6.6	-	600	-	12-1-7-4-6-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.40
56-43.5217-107.7583-2-12-						0-W08558-09/02/76-15-	32-	22.0	-	-	6.9	-	500	-	16-1-7-5-8-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.30
56-43.5222-107.7600-2-12-						0-W08559-09/02/76-15-	32-	20.0	-	-	6.6	-	550	-	16-1-7-4-6-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.10
56-43.5189-107.7911-2-12-						0-W08560-09/02/76-16-	30-	10.0	-	-	6.3	-	600	-	6-1-7-3-6-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.70
56-43.5267-107.7889-2-15-						0-W08561-09/02/76-14-	30-		-	-	-	-	-	-	6-1-7-5-7-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.00
56-43.5467-107.8011-2-12-						0-W08562-09/02/76-16-	30-	20.0	-	-	6.9	-	650	-	19-1-7-3-6-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.00
56-43.5456-107.8039-2-12-						0-W08563-09/02/76-16-	30-	20.0	-	-	6.6	-	650	-	16-1-7-5-6-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.00
56-43.5829-107.8261-2-12-						0-W08564-09/02/76-17-	31-	20.0	-	-	6.6	-	800	-	12-1-7-4-8-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.50
56-43.5806-107.8278-2-15-						0-W08565-09/02/76-17-	31-		-	-	-	-	-	-	6-1-7-3-7-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	4.50
56-43.5547-107.8339-2-15-						0-W08566-09/02/76-17-	31-		-	-	-	-	-	-	16-1-7-5-7-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	5.50
56-43.5406-107.8628-2-12-						0-W08567-09/02/76-17-	31-	20.0	-	-	6.3	-	700	-	9-1-7-3-4-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.20
56-43.5403-107.8611-2-12-						0-W08568-09/02/76-17-	31-	20.0	-	-	6.9	-	800	-	9-1-7-4-6-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.40
56-43.5394-107.8739-2-12-						0-W08569-09/02/76-18-	27-	19.0	-	-	6.6	-	700	-	16-1-7-5-4-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.00
56-43.5992-107.8228-2-15-						0-W08570-09/02/76-18-	27-		-	-	-	-	-	-	12-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	2.40
56-43.6117-107.8478-2-12-						0-W08571-09/02/76-18-	27-	20.0	-	-	6.6	-	900	-	12-1-7-6-8-2-2-2-				-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	3.80
56-43.6161-107.8722-2-15-						0-W08572-09/02/76-18-	27-		-	-	-	-	-	-	16-1-7-5-6-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	3.70
56-43.7078-107.9042-2-15-						0-W08573-09/01/76-14-	32-		-	-	-	-	-	-	12-1-7-4-6-	-	-	-2-	3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.60
56-43.6819-107.9017-2-15-						0-W08574-09/01/76-14-	32-		-	-	-	-	-	-	17-1-7-4-6-	-	-	-2-	- -2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.90
56-43.6289-107.8378-2-15-						0-W08576-09/01/76-14-	30-		-	-	-	-	-	-	14-1-7-4-6-	-	-	-2-	3-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	4.00
56-43.6489-107.8686-2-15-						0-W08577-09/01/76-14-	30-		-	-	-	-	-	-	9-1-7-4-6-	-	-	-2-	3-1-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	3.90

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	USGS SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)									Concentrations in weight ppm	
							Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.9011-107.7672-2-15-						0-W08524	-5	-5	-5	12	-20	-15	9	-10	-15	2	15
56-43.9139-107.8267-2-15-						0-W08525	-5	-5	-5	19	-20	-15	7	-10	-15	2	22
56-43.9147-107.8456-2-15-						0-W08526	-5	5	-5	16	-20	16	6	-10	-15	2	28
56-43.9186-107.8550-2-15-						0-W08527	-5	-5	-5	-10	-20	-15	10	-10	-15	2	16
56-43.7989-107.8561-2-15-						0-W08528	-5	-5	-5	12	-20	-15	6	-10	-15	2	19
56-43.8100-107.8258-2-15-						0-W08529	-5	-5	-5	18	-20	-15	13	-10	-15	2	26
56-43.8042-107.8078-2-15-						0-W08530	-5	-5	-5	24	-20	-15	14	-10	-15	2	39
56-43.8056-107.8081-2-15-						0-W08531	-5	-5	-5	16	-20	-15	-5	-10	-15	2	23
56-43.7817-107.8406-2-15-						0-W08532	-5	-5	-5	12	-20	17	8	-10	-15	2	16
56-43.7672-107.8283-2-12-						0-W08533	-5	-5	-5	20	-20	-15	-5	-10	-15	2	30
56-43.7606-107.8303-2-15-						0-W08534	-5	-5	-5	-10	-20	-15	6	-10	-15	2	30
56-43.7889-107.7681-2-15-						0-W08535	-5	-5	-5	12	-20	-15	7	-10	-15	2	12
56-43.7878-107.7667-2-15-						0-W08536	-5	-5	-5	23	-20	-15	9	-10	-15	2	24
56-43.6031-107.9861-2-15-						0-W08538	-5	-5	-5	19	-20	-15	10	-10	-15	2	44
56-43.6044-107.9517-2-15-						0-W08539	-5	-5	-5	13	-20	-15	-5	-10	-15	2	30
56-43.5872-107.2639-2-11-						0-W08540	-5	-5	-5	21	-20	-15	7	-10	-15	2	37
56-43.5239-107.2767-2-11-						0-W08541	-5	-5	-5	17	-20	-15	16	-10	-15	2	31
56-43.5547-107.2878-2-12-						0-W08543	-5	-5	-5	24	-20	-15	10	-10	-15	2	37
56-43.5550-107.3100-2-11-						0-W08544	-5	-5	-5	25	-20	-15	6	-10	-15	2	41
56-43.5539-107.3422-2-12-						0-W08545	-5	-5	-5	20	-20	35	-5	-10	-15	2	33
56-43.5422-107.3556-2-11-						0-W08546	-5	-5	-5	13	-20	-15	-5	-10	-15	1	15
56-43.5067-107.3472-2-11-						0-W08547	-5	-5	-5	14	-20	-15	-5	-10	-15	2	21
56-43.6167-107.7672-2-12-						0-W08548	-5	-5	-5	26	-20	23	13	-10	-15	3	55
56-43.6128-107.7750-2-15-						0-W08549	-5	-5	-5	19	-20	-15	10	-10	-15	2	34
56-43.6261-107.7450-2-15-						0-W08550	-5	6	-5	20	-20	-15	12	-10	-15	2	40
56-43.6244-107.7461-2-15-						0-W08551	-5	-5	-5	-10	-20	-15	8	-10	-15	3	47
56-43.6461-107.7400-2-15-						0-W08552	-5	-5	-5	22	-20	-15	-5	-10	-15	2	51
56-43.6333-107.6878-2-15-						0-W08553	-5	-5	-5	18	-20	-15	-5	-10	-15	2	37
56-43.5922-107.7083-2-11-						0-W08554	-5	-5	-5	15	-20	-15	6	-10	-15	2	51
56-43.5650-107.7028-2-12-						0-W08555	-5	6	-5	17	-20	-15	11	-10	-15	2	62
56-43.5772-107.6733-2-12-						0-W08556	-5	-5	-5	22	-20	28	-5	-10	-15	-1	91
56-43.5439-107.7350-2-12-						0-W08557	-5	-5	-5	17	-20	-15	-5	-10	-15	2	40
56-43.5217-107.7583-2-12-						0-W08558	-5	-5	-5	28	-20	23	14	-10	-15	2	44
56-43.5222-107.7600-2-12-						0-W08559	-5	-5	-5	21	-20	-15	8	-10	-15	2	37
56-43.5189-107.7911-2-12-						0-W08560	-5	-5	-5	23	-20	17	9	-10	-15	2	29
56-43.5267-107.7889-2-15-						0-W08561	-5	-5	-5	24	-20	-15	5	-10	-15	1	18
56-43.5467-107.8011-2-12-						0-W08562	-5	-5	-5	17	-20	-15	-5	-10	-15	2	65
56-43.5456-107.8039-2-12-						0-W08563	-5	-5	-5	21	-20	16	-5	-10	-15	2	37
56-43.5828-107.8261-2-12-						0-W08564	-5	-5	-5	11	-20	-15	14	-10	-15	3	41
56-43.5806-107.8278-2-15-						0-W08565	-5	-5	-5	15	-20	-15	9	-10	-15	2	32
56-43.5547-107.8339-2-15-						0-W08566	-5	-5	-5	21	-20	-15	6	-10	-15	2	29
56-43.5406-107.8628-2-12-						0-W08567	-5	-5	-5	18	-20	-15	-5	-10	-15	1	24
56-43.5403-107.8611-2-12-						0-W08568	-5	-5	-5	23	-20	-15	8	-10	-15	2	18
56-43.5394-107.8739-2-12-						0-W08569	-5	-5	-5	14	-20	-15	5	-10	-15	2	44
56-43.5992-107.8228-2-15-						0-W08570	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	28
56-43.6117-107.8478-2-12-						0-W08571	-5	-5	-5	19	-20	-15	5	-10	-15	2	38
56-43.6161-107.8722-2-15-						0-W08572	-5	-5	-5	16	-20	-15	-5	-10	-15	2	45
56-43.7078-107.9042-2-15-						0-W08573	-5	-5	-5	13	-20	-15	8	-10	-15	2	56
56-43.6819-107.9017-2-15-						0-W08574	-5	-5	-5	19	-20	17	5	-10	-15	2	35
56-43.6289-107.8378-2-15-						0-W08576	-5	-5	-5	10	-20	-15	12	-10	-15	2	38
56-43.6489-107.8686-2-15-						0-W08577	-5	-5	-5	13	-20	-15	5	-10	-15	2	24

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.9011-	107.7672-	2-	15-		0-W08524	36020	-0.03	416	4768	49	57	5.6	35	1.8	3	0.8	7363	11.6	12460	27	0.3
56-	43.9139-	107.8267-	2-	15-		0-W08525	41780	-0.03	484	6339	40	-33	5.2	28	1.7	3	0.7	8021	7.7	12060	27	0.2
56-	43.9147-	107.8456-	2-	15-		0-W08526	41350	-0.04	575	22500	65	-50	6.8	54	2.0	4	1.0	11390	17.0	12620	33	0.4
56-	43.9186-	107.8550-	2-	15-		0-W08527	34710	-0.04	463	4483	35	-31	3.9	23	2.0	3	0.6	5647	4.6	11870	21	0.2
56-	43.7989-	107.8561-	2-	15-		0-W08528	35000	-0.03	566	5841	60	-47	5.4	41	1.9	3	1.1	9146	20.1	11560	34	0.4
56-	43.8100-	107.8258-	2-	15-		0-W08529	65770	-0.04	590	5352	49	-33	7.1	34	4.4	4	0.8	8263	4.8	15760	27	0.3
56-	43.8042-	107.8078-	2-	15-		0-W08530	52960	-0.04	581	8569	59	-38	7.2	43	3.6	3	0.9	10860	7.3	14470	32	0.4
56-	43.8056-	107.8081-	2-	15-		0-W08531	42520	-0.04	599	9029	38	-41	4.7	28	2.6	4	0.7	8520	8.9	14710	27	0.2
56-	43.7817-	107.8406-	2-	15-		0-W08532	31930	-0.03	374	2530	62	33	3.8	42	1.8	4	1.0	3430	14.7	12190	31	0.4
56-	43.7672-	107.8283-	2-	12-		0-W08533	47290	-0.04	466	24110	41	72	5.9	27	2.9	4	0.9	7861	5.8	14000	24	0.3
56-	43.7606-	107.8303-	2-	15-		0-W08534	45880	-0.04	572	32910	39	-53	7.3	40	3.5	3	0.8	11220	4.1	16020	23	0.3
56-	43.7889-	107.7681-	2-	15-		0-W08535	26290	-0.04	526	1930	34	-24	3.7	26	1.6	3	0.7	5865	11.4	10280	22	0.3
56-	43.7878-	107.7667-	2-	15-		0-W08536	40370	-0.03	569	10270	41	-45	5.1	29	1.9	2	0.7	7433	4.6	13260	22	0.2
56-	43.6031-	107.9861-	2-	15-		0-W08538	52370	-0.04	635	32230	40	59	8.0	44	2.2	4	0.9	11350	6.6	17960	22	0.2
56-	43.6044-	107.9517-	2-	15-		0-W08539	37110	-0.04	400	39570	46	-53	6.7	38	2.3	3	1.1	10150	7.5	12530	23	0.3
56-	43.5872-	107.2639-	2-	11-		0-W08540	49340	-0.04	610	24100	58	-60	9.0	53	3.0	4	1.0	13950	9.3	13810	33	0.4
56-	43.5239-	107.2767-	2-	11-		0-W08541	53720	-0.05	687	8893	99	-85	9.4	58	2.7	5	1.4	14610	14.1	15440	55	0.5
56-	43.5547-	107.2878-	2-	12-		0-W08543	59020	-0.04	662	15430	70	-72	10.4	52	2.2	4	1.3	16210	9.2	24890	-2	0.3
56-	43.5550-	107.3100-	2-	11-		0-W08544	58620	-0.05	609	11250	71	-59	11.4	52	2.5	4	1.2	16000	9.2	30580	38	0.4
56-	43.5539-	107.3422-	2-	12-		0-W08545	56310	-0.06	416	26310	77	-92	14.5	103	-1.6	4	1.2	22310	18.7	16630	39	0.6
56-	43.5422-	107.3556-	2-	11-		0-W08546	36940	-0.05	523	59390	37	-79	4.5	34	-1.2	2	0.7	7077	7.9	11610	21	0.2
56-	43.5067-	107.3472-	2-	11-		0-W08547	48130	-0.04	853	9325	61	-80	7.7	43	-1.2	4	1.0	14420	12.7	15340	27	0.4
56-	43.6167-	107.7672-	2-	12-		0-W08548	60270	-0.05	933	24350	62	-63	10.7	58	4.6	4	1.3	17760	7.4	17760	36	0.3
56-	43.6128-	107.7750-	2-	15-		0-W08549	55160	-0.04	636	13400	67	-57	7.3	48	3.6	4	1.2	13100	9.2	18350	32	0.3
56-	43.6261-	107.7450-	2-	15-		0-W08550	49330	-0.04	712	16840	42	-68	6.1	40	1.6	3	0.9	11340	9.8	13840	29	0.2
56-	43.6244-	107.7461-	2-	15-		0-W08551	42180	-0.03	639	8860	39	-51	-0.4	33	2.0	3	0.9	8372	4.7	14580		0.2
56-	43.6461-	107.7400-	2-	15-		0-W08552	51990	-0.04	677	10630	56	-51	6.1	40	4.0	4	1.0	11560	7.7	16180	33	0.3
56-	43.6333-	107.6878-	2-	15-		0-W08553	48100	-0.04	635	21400	55	88	7.5	45	3.5	3	1.0	14520	6.4	14800	28	0.3
56-	43.5922-	107.7083-	2-	11-		0-W08554	57710	-0.06	511	18690	46	-67	5.7	28	3.8	3	0.9	12280	7.6	18200	28	0.3
56-	43.5650-	107.7028-	2-	12-		0-W08555	73880	-0.04	1803	13630	67	-81	-0.8	53	2.3	3	1.3	17630	7.1	49410	47	0.2
56-	43.5772-	107.6733-	2-	12-		0-W08556	71700	-0.05	1087	15990	65	-86	11.0	61	2.3	3	1.1	16340	6.5	37390	40	0.2
56-	43.5439-	107.7350-	2-	12-		0-W08557	69790	-0.05	1371	70940	91	-83	11.5	71	2.9	3	1.2	18320	10.4	40070	49	0.3
56-	43.5217-	107.7583-	2-	12-		0-W08558	67640	-0.06	900	32450	51	-84	8.1	40	2.1	3	1.1	12310	5.7	43020	30	-0.1
56-	43.5222-	107.7600-	2-	12-		0-W08559	58380	-0.04	1112	24490	57	-76	-0.6	45	1.8	3	0.9	12530	8.7	26830	38	0.2
56-	43.5189-	107.7911-	2-	12-		0-W08560	74450	-0.05	1211	16630	64	-88	11.7	68	3.4	3	1.1	19710	7.0	18240	44	0.3
56-	43.5267-	107.7889-	2-	15-		0-W08561	34810	-0.03	387	61880	35	-61	5.1	26	1.6	3	0.8	8444	6.7	11850	21	0.3
56-	43.5467-	107.8011-	2-	12-		0-W08562	45910	-0.05	296	41030	39	-81	6.5	26	2.3	3	0.9	10540	5.5	19720	20	0.2
56-	43.5456-	107.8039-	2-	12-		0-W08563	47050	-0.03	856	13480	50	-62	7.3	34	-1.0	4	1.1	11060	11.1	12910		0.4
56-	43.5828-	107.8261-	2-	12-		0-W08564	52600	-0.04	1001	13640	58	-76	9.3	39	3.1	3	1.1	14550	7.5	15770	33	0.3
56-	43.5806-	107.8278-	2-	15-		0-W08565	54580	-0.04	670	8920	43	-69	5.6	33	2.5	3	1.0	9743	6.8	17500	29	0.3
56-	43.5547-	107.8339-	2-	15-		0-W08566	61050	-0.04	563	4970	54	-49	7.9	40	4.1	4	0.9	13970	5.7	16910	32	0.3
56-	43.5406-	107.8628-	2-	12-		0-W08567	37560	-0.04	745	38990	60	-50	7.2	37	2.1	4	1.1	12530	14.1	15030	32	0.5
56-	43.5403-	107.8611-	2-	12-		0-W08568	41910	-0.04	695	32450	54	-60	8.2	33	1.9	3	1.3	11630	8.9	12650	27	0.4
56-	43.5394-	107.8739-	2-	12-		0-W08569	42940	-0.05	484	31060	50	-54	5.6	32	2.4	4	0.8	10860	9.5	11940	29	0.3
56-	43.5992-	107.8228-	2-	15-		0-W08570	44340	-0.03	660	10760	39	-53	-0.5	18	2.0	3	0.9	5934	3.8	15290		0.2
56-	43.6117-	107.8478-	2-	12-		0-W08571	49690	-0.04	713	21430	60	-64	7.7	40	3.3	5	1.2	13000	10.6	16750	36	0.4
56-	43.6161-	107.8722-	2-	15-		0-W08572	55410	-0.04	761	15350	60	-66	7.6	40	2.7	4	1.0	11910	7.8	16500	31	0.4
56-	43.7078-	107.9042-	2-	15-		0-W08573	53300	-0.04	802	24590	51	-68	7.5	46	2.6	4	1.0	12070	8.2	14990	31	0.3
56-	43.6819-	107.9017-	2-	15-		0-W08574	56950	-0.04	646	20270	60	-64	7.2	42	4.5	4	1.0	12570	6.8	16070	37	0.3
56-	43.6289-	107.8378-	2-	15-		0-W08576	46880	-0.04	650	12480	66	392	6.6	35	2.7	4	1.0	10420	11.6	14810	35	0.5
56-	43.6489-	107.8686-	2-	15-		0-W08577	45400	-0.04	670	13690	48	-71	4.2	21	2.4	3	1.0	8069	8.6	17360	25	0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.9011-107.7672-2-15-			0-			W08524	5703	156	1536	-12	-1	4.1	3.1	-163		-1	7.2	3067	51	2.7		0.431
56-43.9139-107.8267-2-15-			0-			W08525	7656	173	2342	-12	-1	3.8	2.9	-141	-1	-1	5.0	2623	51	1.6	33	0.520
56-43.9147-107.8456-2-15-			0-			W08526	13720	259	6438	25	-1	5.3	4.9	345	-1	-1	10.2	3298	63	3.5	54	0.304
56-43.9186-107.8550-2-15-			0-			W08527	4496	87	2033	22	-1	3.2	1.6	-131	-1	-1	4.5	2462	46	1.8	-61	0.489
56-43.7989-107.8561-2-15-			0-			W08528	8498	198	3740	-12	-1	4.0	3.9	-193		-1	8.9	3779	67	3.3		0.438
56-43.8100-107.8258-2-15-			0-			W08529	9238	95	1691	33	2	6.0	3.2	-150	-1	-1	7.3	4013	95	2.5	67	0.493
56-43.8042-107.8078-2-15-			0-			W08530	9317	156	3240	51	-1	6.2	4.3	-150	-1	-1	8.6	3069	83	2.2	-12	0.349
56-43.8056-107.8081-2-15-			0-			W08531	9498	175	2908	-17	-1	4.3	2.6	-176	-1	-1	6.0	3331	69	2.6	-32	0.483
56-43.7817-107.8406-2-15-			0-			W08532	3250	84	1351	26	1	3.6	4.1	-131			7.6	2937	39	3.0	37	0.408
56-43.7672-107.8283-2-12-			0-			W08533	24340	155	3213	35	-1	4.4	2.9	-171	-1	-1	6.5	2899	73	2.1	51	0.492
56-43.7606-107.8303-2-15-			0-			W08534	31110	206	6590	44	-1	5.1	3.9	200	-1	-1	7.0	2230	60	2.4	68	0.286
56-43.7889-107.7681-2-15-			0-			W08535	2919	116	876	29	-1	2.9	2.4	-130	-1	-1	5.5	2752	39	2.0	-24	0.491
56-43.7878-107.7667-2-15-			0-			W08536	9395	146	3926	33	-1	3.9	2.6	-166			5.7	2321	63	1.7	33	0.421
56-43.6031-107.9861-2-15-			0-			W08538	28040	446	7472	30	-1	5.4	3.2	-245	-1	-1	6.0	3206	68	1.9	70	0.483
56-43.6044-107.9517-2-15-			0-			W08539	18340	337	5767	27	-1	4.9	3.9	279	-1	-1	6.8	2366	41	2.1	52	0.309
56-43.5872-107.2639-2-11-			0-			W08540	10610	412	6252	49	-1	6.0	4.6	-236	-1	-1	9.9	3076	58	3.3	-40	0.354
56-43.5239-107.2767-2-11-			0-			W08541	6919	489	11390	62	-2	6.2	8.2	-317	-1	-1	22.0	4027	55	4.8	102	0.227
56-43.5547-107.2878-2-12-			0-			W08543	14700	727	7313	43	-1	6.8	4.2	-318	-1	-1	11.2	3600	59	3.0	-41	0.330
56-43.5550-107.3100-2-11-			0-			W08544	14110	338	5447	56	-2	6.9	5.4	-238	-1	-1	10.9	3327	52	4.2	60	0.303
56-43.5539-107.3422-2-12-			0-			W08545	16210	510	12930	-23	-2	11.2	5.5	-324	-1	-1	17.3	4969	81	5.1	72	0.202
56-43.5422-107.3556-2-11-			0-			W08546	37390	283	8111	-22	-1	3.0	1.6	-275	-1	-1	5.3	2701	39	1.9	-21	0.434
56-43.5067-107.3472-2-11-			0-			W08547	9847	577	9329	-18	-1	4.7	3.4	-314	-1	-1	8.4	3440	51	3.4		0.381
56-43.6167-107.7672-2-12-			0-			W08548	18070	309	6935	67	-2	7.9	4.8	-241	-1	-1	8.7	3342	134	3.2	-32	0.379
56-43.6128-107.7750-2-15-			0-			W08549	15570	169	6175	59	-1	6.0	4.5	-196	-1	-1	11.6	2968	97	2.2	77	0.267
56-43.6261-107.7450-2-15-			0-			W08550	11170	247	8929	-19	-1	4.7	2.6	-229	-1	-1	6.8	2812	81	2.3	-4	0.456
56-43.6244-107.7461-2-15-			0-			W08551	8391	170	7541	-10	-1	3.5	2.6	-162		-1	5.9	2029	75	1.7	-54	0.390
56-43.6461-107.7400-2-15-			0-			W08552	11880	160	6867	47	-1	5.2	4.5	-169	-1	-1	8.7	2526	72	3.0	78	0.356
56-43.6333-107.6878-2-15-			0-			W08553	18370	158	7056	30	-1	5.5	4.2	-197	-1	-1	9.0	2786	89	3.3	93	0.367
56-43.5922-107.7083-2-11-			0-			W08554	13590	172	5946	48	-2	5.2	3.1	-234	-1	-1	9.2	2466	78	1.7	-111	0.359
56-43.5650-107.7028-2-12-			0-			W08555	12720	437	10500	-18	-1	5.7	3.3	-297	-1	-1	8.7	4169	64	2.0		0.264
56-43.5772-107.6733-2-12-			0-			W08556	18600	471	12720	52	-1	6.6	3.8	464	-1	-1	8.6	3558	62	2.5	-58	0.244
56-43.5439-107.7350-2-12-			0-			W08557	17550	396	9483	47	-2	6.6	5.2	618	-1	-1	12.0	3761	67	2.5	63	0.200
56-43.5217-107.7583-2-12-			0-			W08558	16850	183	8778	-26	-2	5.3	2.3	-276	-1	-1	6.7	2662	64	-1.6	-167	0.343
56-43.5222-107.7600-2-12-			0-			W08559	14040	521	9981	36	-1	5.2	3.4	602	-1	-1	7.0	3814	65	2.1		0.300
56-43.5189-107.7911-2-12-			0-			W08560	17850	345	15140	37	-2	7.9	4.6	663	-1	-1	9.7	3613	75	2.7	83	0.278
56-43.5267-107.7889-2-15-			0-			W08561	11410	276	6797	35	-1	3.6	3.1	-221	-1		4.3	1928	33	2.1	48	0.465
56-43.5467-107.8011-2-12-			0-			W08562	27110	361	8562	-20	-1	5.2	2.1	-291	-1	-1	6.1	3228	40	1.6	-63	0.328
56-43.5456-107.8039-2-12-			0-			W08563	9759	436	7764	-14	-1	5.0	3.2	302		-1	7.5	3406	53	2.4		0.400
56-43.5828-107.8261-2-12-			0-			W08564	9287	800	8311	41	-1	5.4	4.4	-328	-1	-1	9.8	2468	61	2.2	75	0.357
56-43.5806-107.8278-2-15-			0-			W08565	8655	370	7022	38	-1	4.1	3.8	-270	-1	-1	9.6	1692	48	-1.4	-32	0.469
56-43.5547-107.8339-2-15-			0-			W08566	10350	359	4358	-15	-1	6.2	3.8	258	-1	-1	11.0	2820	78	2.7	-21	0.500
56-43.5406-107.8628-2-12-			0-			W08567	18520	410	3957	-15	-1	5.6	4.6	-221	-1	-1	9.5	3107	42	4.0	54	0.337
56-43.5403-107.8611-2-12-			0-			W08568	13670	328	5313	30	-1	5.0	4.2	-242	-1	-1	7.1	2777	47	2.4	40	0.338
56-43.5394-107.8739-2-12-			0-			W08569	16100	351	3058	-20	-1	5.3	3.2	-249	-1	-1	6.7	2878	53	2.9	-53	0.448
56-43.5992-107.8228-2-15-			0-			W08570	7889	135	8688	28	-1	2.6	2.9	274			7.0	1906	34	1.7		0.343
56-43.6117-107.8478-2-12-			0-			W08571	14430	418	6710	41	-1	5.6	5.0	-251	-1	-1	10.6	2826	58	3.6	-36	0.358
56-43.6161-107.8722-2-15-			0-			W08572	12560	253	8357	34	-1	4.8	5.0	329	-1	1	11.5	2411	50	3.1	50	0.322
56-43.7078-107.9042-2-15-			0-			W08573	14820	335	7898	-15	-1	5.8	3.6	-253	-1	-1	8.7	3305	105	2.6		0.414
56-43.6819-107.9017-2-15-			0-			W08574	13260	281	8450	68	-1	5.5	4.6	-220	-1	1	10.4	3061	73	3.6	83	0.375
56-43.6289-107.8378-2-15-			0-			W08576	7397	264	12780	33	-1	4.2	5.1	-254	-1	-1	10.2	2609	49	3.2	60	0.392
56-43.6489-107.8686-2-15-			0-			W08577	8004	263	9033	-18	-1	3.6	2.6	-239	-1	-1	7.8	2289	45	2.8	60	0.500

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																									
56	43.6383	107.8844	2	15	0	W08578	09/01/76	15	32							16	1	7	4	6				2	3	2	2	1		1				3.60
56	43.6447	107.9097	2	15	0	W08579	09/01/76	16	30							12	1	7	4	6				2			2	1		1				3.40
56	43.6439	107.9292	2	15	0	W08580	09/01/76	16	30							11	1	7	4	6					3	2	2	1		1				3.30
56	43.6603	107.9661	2	15	0	W08581	09/01/76	16	30							12	1	7	4	6				2	3	3	2	1		1				3.50
56	43.6994	107.9481	2	15	0	W08583	09/01/76	17	28							14	1	7	4	6				2	3	2	2	1		1				3.30
56	43.7208	107.9342	2	12	0	W08584	09/01/76	17	28				6.9	2000		9	1	7	4	6	2	3	1	2	2	2	2	1		1				3.50
56	43.7200	107.9658	2	15	0	W08585	09/01/76	17	28							14	1	7	4	6				2	3	1	2	1		1				3.40
56	43.7311	107.9744	2	15	0	W08587	09/01/76	18	28							9	1	7	4	6				2	3	1	2	1		1				3.40
56	43.5850	107.9333	2	15	0	W08588	09/02/76	15	34							9	1	6	4	6	1	1	1	3	2	3	1	1		1				3.30
56	43.5844	107.9250	2	11	0	W08589	09/02/76	16	33				6.9	1500		9	1	6	5	8	2	2	1	3	2	3	1	1		1				4.90
56	43.5656	107.8950	2	15	0	W08590	09/02/76	16	33							13	1	6	4	6	1	1	1	3	2	3	1	1		1				4.00
56	43.5583	107.8894	2	11	0	W08591	09/02/76	16	34	13.0			6.6	950		13	1	6	5	7	2	2	1	3	2	3	1	1		1				5.30
56	43.6056	107.8961	2	15	0	W08592	09/03/76	12	34							6	1	7	4	6				4	3	4	2	1		1				2.50
56	43.5239	107.9889	2	11	0	W08593	09/04/76	14	34	15.0			6.3	1900		9	1	7	5	6	2	2	1	3	3	3	2	1		1				2.80
56	43.5125	107.9761	2	11	0	W08594	09/04/76	13	34	15.0			6.5	2400		6	1	7	5	6	2	2	1	4	3	3	2	1		1				2.90
56	43.5100	107.9753	2	15	0	W08595	09/04/76	13	34							6	1	7	5	6				3	3	2	2	1		1				2.60
56	43.9083	107.6378	2	15	0	W08596	10/14/76	16	28							9	1	7	4	6	1	3	3	2	3	1	1	1		1				3.10
56	43.9061	107.6644	2	15	0	W08597	10/14/76	17	28							12	1	7	4	6	1	3	3	2	3	1	1	1		1				2.60
56	43.8814	107.6350	2	15	0	W08598	10/14/76	17	27							12	1	7	4	6	1	3	3	2	3	1	1	1		1				3.20
56	43.8939	107.6561	2	15	0	W08599	10/14/76	17	27							6	1	7	4	6	1	3	3	2	3	1	1	1		1				5.30
56	43.9256	107.6867	2	15	0	W08600	10/14/76	17	27							6	1	7	4	6	1	3	3	2	3	1	1	1		1				3.40
56	43.9114	107.6950	2	15	0	W08601	10/14/76	17	27							12	1	7	4	6	1	3	3	2	3	1	1	1		1				3.20
56	43.9064	107.7181	2	15	0	W08602	10/14/76	18	21							9	1	7	4	6	1	3	3	2	3	1	1	1		1				4.30
56	43.9422	107.7500	2	15	0	W08603	10/14/76	18	21							6	1	7	5	6	1	3	3	2	3	1	1	1		1				2.50
56	43.9356	107.7450	2	15	0	W08604	10/14/76	18	21							9	1	7	5	6	1	3	3	2	3	1	1	1		1				2.90
56	43.4339	107.6639	2	11	0	W08605	09/29/77	10	14	8.0			6.3	350		11	1	7	5	6	3	3	1	3	3	3	1	1		1				2.58
56	43.4361	107.6639	2	12	0	W08606	09/29/77	10	14	7.0			6.1	350		16	1	7	5	6	3	3	1	3	3	3	1	1		1				2.77
56	43.3633	107.6483	2	15	0	W08608	09/29/77	10	14							8	1	7	4	6	1	2	3	3	3	1	1	1		1				2.75
56	43.1081	107.6944	2	15	0	W08610	09/29/77	11	14							10	1	7	4	6	1	2	3	3	3	1	1	1		1				3.48
56	43.0844	107.7044	2	15	0	W08611	09/29/77	11	14							10	1	7	4	6	1	2	3	3	3	1	1	1		1				3.80
56	43.0764	107.6975	2	15	0	W08612	09/29/77	11	14							11	1	7	4	6	1	2	3	3	3	1	1	1		1				4.63
56	43.0392	107.6703	2	15	0	W08613	09/29/77	11	14							16	1	7	4	6	1	2	3	3	3	1	1	1		1				3.25
56	43.0250	107.7119	2	15	0	W08614	09/29/77	12	15							10	1	7	4	6	1	2	3	3	3	1	1	1		1				3.64
56	43.0067	107.6953	2	15	0	W08615	09/29/77	12	15							11	1	7	4	6	1	2	3	3	3	1	1	1		1				3.13
56	43.0556	107.6525	2	15	0	W08616	09/29/77	16	15							16	1	7	4	6	1	2	3	3	3	1	1	1		1				3.92
56	43.0808	107.6603	2	15	0	W08617	09/29/77	16	15							13	1	7	4	6	1	2	3	3	3	1	1	1		1				4.14
56	43.1086	107.9917	2	15	0	W08619	10/03/77	7	12							16	1	7	4	6	1	2	3	3	3	1	1	1		1				4.57
56	43.1133	107.9839	2	15	0	W08620	10/03/77	7	12							16	1	7	4	6	1	2	3	3	3	1	1	1		1				3.80
56	43.1031	107.9583	2	15	0	W08621	10/03/77	7	12							8	1	7	4	6	1	2	3	3	3	1	1	1		1				5.75
56	43.0850	107.9419	2	15	0	W08622	10/03/77	7	12							33	1	7	4	6	1	2	3	3	3	1	1	1		1				5.33
56	43.0833	107.9392	2	15	0	W08623	10/03/77	7	12							33	1	7	4	6	1	2	3	3	3	1	1	1		1				4.52
56	43.0800	107.9592	2	15	0	W08624	10/03/77	8	12							41	1	7	4	6	1	2	3	3	3	1	1	1		1				5.03
56	43.0617	107.9861	2	15	0	W08625	10/03/77	8	12							16	1	7	4	6	1	2	3	3	3	1	1	1		1				3.66
56	43.0422	107.9894	2	15	0	W08626	10/03/77	9	12							16	1	7	4	6	1	2	3	3	3	1	1	1		1				3.03
56	43.0194	107.9900	2	15	0	W08627	10/03/77	9	13							25	1	7	4	6	1	2	3	3	3	1	1	1		1				3.05
56	43.0411	107.9661	2	15	0	W08628	10/03/77	9	12							18	1	7	4	6	1	2	3	3	3	1	1	1		1				2.97
56	43.0022	107.9544	2	15	0	W08629	10/03/77	9	12							18	1	7	4	6	1	2	3	3	3	1	1	1		1				2.93
56	43.0103	107.8069	2	15	0	W08630	10/03/77	15	15								1	7	4	6	1	2	3	3	3	1	1	1		1				2.68
56	43.0153	107.8317	2	15	0	W08631	10/03/77	16	15							16	1	7	4	6	1	2	3	3	3	1	1	1		1				3.47
56	43.0117	107.7731	2	15	0	W08632	10/03/77	16	15							8	1	7	4	6	1	2	3	3	3	1	1	1		1				3.18
56	43.0147	107.7725	2	15	0	W08633	10/03/77	16	15							8	1	7	4	6	1	2	3	3	3	1	1	1		1				6.77

APPENDIX 1-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.6383-107.8844-2-15-						0-W08578	-5	-5	-5	17	-20	-15	10	-10	-15	2	32
56-43.6447-107.9097-2-15-						0-W08579	-5	-5	-5	17	-20	-15	7	-10	-15	2	38
56-43.6439-107.9292-2-15-						0-W08580	-5	-5	-5	12	-20	-15	10	-10	-15	2	47
56-43.6603-107.9661-2-15-						0-W08581	-5	5	-5	16	-20	-15	-5	-10	-15	2	39
56-43.6994-107.9481-2-15-						0-W08583	-5	-5	-5	18	-20	33	-5	-10	-15	2	53
56-43.7208-107.9342-2-12-						0-W08584	-5	-5	-5	15	-20	-15	11	-10	-15	2	45
56-43.7200-107.9658-2-15-						0-W08585	-5	-5	-5	21	-20	-15	8	-10	-15	2	59
56-43.7311-107.9744-2-15-						0-W08587	-5	-5	-5	18	-20	17	8	-10	-15	2	59
56-43.5850-107.9333-2-15-						0-W08588	-5	-5	-5	22	-20	-15	-5	-10	-15	2	27
56-43.5844-107.9250-2-11-						0-W08589	-5	-5	-5	26	-20	-15	11	-10	-15	2	36
56-43.5656-107.8950-2-15-						0-W08590	-5	-5	-5	-10	-20	-15	9	66	-15	1	16
56-43.5583-107.8894-2-11-						0-W08591	-5	-5	-5	22	-20	15	10	-10	-15	2	45
56-43.6056-107.8961-2-15-						0-W08592	-5	-5	-5	15	-20	-15	6	-10	-15	2	11
56-43.5239-107.9889-2-11-						0-W08593	-5	-5	-5	16	-20	-15	11	-10	-15	2	23
56-43.5125-107.9761-2-11-						0-W08594	-5	-5	-5	10	-20	-15	-5	-10	-15	1	34
56-43.5100-107.9753-2-15-						0-W08595	-5	-5	-5	27	-20	-15	-5	-10	-15	1	23
56-43.9083-107.6378-2-15-						0-W08596	-5	-5	-5	19	-20	-15	6	-10	-15	1	9
56-43.9061-107.6644-2-15-						0-W08597	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	9
56-43.8814-107.6350-2-15-						0-W08598	-5	-5	-5	14	-20	-15	8	-10	-15	1	21
56-43.8939-107.6561-2-15-						0-W08599	-5	-5	-5	-10	-20	-15	11	-10	-15	1	11
56-43.9256-107.6867-2-15-						0-W08600	-5	-5	-5	17	-20	-15	-5	-10	-15	1	20
56-43.9114-107.6950-2-15-						0-W08601	-5	-5	-5	15	-20	-15	-5	-10	-15	2	16
56-43.9064-107.7181-2-15-						0-W08602	-5	-5	-5	-10	-20	-15	5	-10	-15	1	8
56-43.9422-107.7500-2-15-						0-W08603	-5	-5	-5	17	-20	-15	10	-10	-15	2	15
56-43.9356-107.7450-2-15-						0-W08604	-5	-5	-5	15	-20	-15	-5	-10	-15	2	23
56-43.4339-107.6639-2-11-						0-W08605	-5	-5	-5	22	-20	-15	7	-10	-15	2	22
56-43.4361-107.6639-2-12-						0-W08606	-5	-5	-5	12	-20	-15	8	-10	-15	2	21
56-43.3633-107.6483-2-15-						0-W08608	-5	-5	-5	25	-20	-15	8	-10	-15	2	28
56-43.1081-107.6944-2-15-						0-W08610	-5	-5	-5	15	-20	-15	9	-10	-15	2	22
56-43.0844-107.7044-2-15-						0-W08611	-5	-5	-5	15	-20	18	5	-10	-15	2	27
56-43.0764-107.6975-2-15-						0-W08612	-5	-5	-5	15	-20	-15	9	-10	-15	2	14
56-43.0392-107.6703-2-15-						0-W08613	-5	-5	-5	19	-20	-15	13	-10	-15	2	23
56-43.0250-107.7119-2-15-						0-W08614	-5	-5	-5	12	-20	-15	12	-10	-15	2	28
56-43.0067-107.6953-2-15-						0-W08615	-5	-5	-5	10	-20	-15	7	-10	-15	2	20
56-43.0556-107.6525-2-15-						0-W08616	-5	-5	-5	-10	-20	-15	5	-10	-15	2	35
56-43.0808-107.6603-2-15-						0-W08617	-5	-5	-5	15	-20	-15	11	-10	-15	2	23
56-43.1086-107.9017-2-15-						0-W08619	-5	-5	-5	22	-20	32	10	-10	-15	2	28
56-43.1133-107.9839-2-15-						0-W08620	-5	-5	-5	22	-20	17	10	-10	-15	2	28
56-43.1031-107.9583-2-15-						0-W08621	-5	-5	-5	23	-20	-15	5	-10	-15	2	24
56-43.0850-107.9419-2-15-						0-W08622	-5	-5	-5	38	-20	36	19	-10	-15	3	37
56-43.0833-107.9392-2-15-						0-W08623	-5	-5	-5	31	-20	25	9	-10	-15	2	35
56-43.0800-107.9592-2-15-						0-W08624	-5	-5	-5	25	-20	21	16	-10	-15	2	38
56-43.0617-107.9861-2-15-						0-W08625	-5	-5	-5	19	-20	19	14	-10	-15	2	24
56-43.0422-107.9894-2-15-						0-W08626	-5	-5	-5	19	-20	17	7	-10	-15	2	28
56-43.0194-107.9900-2-15-						0-W08627	-5	-5	-5	17	-20	-15	8	-10	-15	2	40
56-43.0411-107.9661-2-15-						0-W08628	-5	-5	-5	26	-20	33	15	-10	-15	2	48
56-43.0022-107.9544-2-15-						0-W08629	-5	-5	-5	23	-20	22	15	-10	-15	2	38
56-43.0103-107.8069-2-15-						0-W08630	-5	-5	-5	16	-20	20	11	-10	-15	2	21
56-43.0153-107.8317-2-15-						0-W08631	-5	-5	-5	16	-20	27	8	-10	-15	2	27
56-43.0117-107.7731-2-15-						0-W08632	-5	-5	-5	16	-20	15	10	-10	-15	2	19
56-43.0147-107.7725-2-15-						0-W08633	-5	-5	-5	16	-20	-15	8	-10	-15	2	43

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.6383-	107.8844-2-	15-			0-W08578	59020	-0.04	675	22560	59	-67	-0.7	35	3.4	4	0.9	12380	5.4	15580	31	0.3
56-	43.6447-	107.9097-2-	15-			0-W08579	52090	-0.03	742	18630	55	-56	6.2	42	3.1	4	1.0	11820	7.9	18190	34	0.3
56-	43.6439-	107.9292-2-	15-			0-W08580	50220	-0.04	689	19340	60	-60	6.2	35	2.8	4	1.2	10220	6.2	16030	31	0.3
56-	43.6603-	107.9661-2-	15-			0-W08581	48290	-0.04	637	16360	42	-65	5.1	29	3.2	3	0.9	9259	6.5	15530	28	0.2
56-	43.6994-	107.9481-2-	15-			0-W08583	59670	-0.04	848	24290	56	-58	7.9	59	3.3	4	0.9	13660	6.5	15550	31	0.2
56-	43.7208-	107.9342-2-	12-			0-W08584	49860	-0.04	837	21870	56	-57	6.7	47	3.8	4	1.0	11830	8.0	16520	31	0.3
56-	43.7200-	107.9658-2-	15-			0-W08585	57660	-0.05	863	28390	74	124	10.3	63	3.4	3	1.1	16130	9.1	18500	34	0.3
56-	43.7311-	107.9744-2-	15-			0-W08587	63890	-0.07	722	32880	54	-74	8.3	64	5.4	4	0.9	15850	3.6	17720	28	0.3
56-	43.5850-	107.9333-2-	15-			0-W08588	44180	-0.03	603	8117	58	-59	6.4	46	2.0	4	1.0	9933	12.3	16580	28	0.4
56-	43.5844-	107.9250-2-	11-			0-W08589	55990	-0.05	573	23980	52	-64	8.5	48	4.4	4	1.0	14890	6.7	16240	35	0.3
56-	43.5656-	107.8950-2-	15-			0-W08590	30880	-0.04	417	47480	103	107	5.2	45	-1.0	5	1.1	8906	27.3	15750	47	0.6
56-	43.5583-	107.8894-2-	11-			0-W08591	62690	-0.06	411	10570	63	-66	7.9	39	3.1	4	1.3	13680	7.4	15800	34	0.4
56-	43.6056-	107.8961-2-	15-			0-W08592	34930	-0.03	473	4740	40	-45	-0.5	32	1.3	3	0.7	7696	11.1	11160	23	0.3
56-	43.5239-	107.9889-2-	11-			0-W08593	49200	-0.04	582	39410	43	-78	6.3	49	-1.2	2	0.9	10770	8.7	12820	29	0.3
56-	43.5125-	107.9761-2-	11-			0-W08594	50020	-0.03	613	33430	54	-68	6.4	55	1.6	4	1.0	11060	10.8	15250	31	0.3
56-	43.5100-	107.9753-2-	15-			0-W08595	41530	-0.04	525	79260	47	-60	7.9	53	2.4	3	0.9	11070	7.7	15080	29	0.3
56-	43.9083-	107.6378-2-	15-			0-W08596	23630	-0.03	690	1841	60	-26	5.8	32	1.9	4	1.0	9305	16.6	9829	30	0.4
56-	43.9061-	107.6644-2-	15-			0-W08597	21340	-0.03	489	1231	33	-27	3.9	21	-0.9	3	0.9	7480	9.3	10820	22	0.3
56-	43.8814-	107.6350-2-	15-			0-W08598	24830	-0.03	602	1575	45	-19	4.4	26	1.6	4	0.8	6572	12.1	11310	25	0.4
56-	43.8939-	107.6561-2-	15-			0-W08599	18230	-0.03	991	-360	94	-26	6.2	58	1.4	5	2.2	14990	38.8	8011	52	0.6
56-	43.9256-	107.6867-2-	15-			0-W08600	29530	-0.03	820	3799	60	-38	6.1	39	1.8	4	1.1	7078	15.8	11850	32	0.4
56-	43.9114-	107.6950-2-	15-			0-W08601	24870	-0.04	906	3005	47	-36	4.7	26	1.5	3	0.9	7734	12.9	11480	22	0.3
56-	43.9064-	107.7181-2-	15-			0-W08602	20360	-0.03	855	-331	57	-23	4.2	41	1.8	5	1.0	8032	24.0	8899	31	0.5
56-	43.9422-	107.7500-2-	15-			0-W08603	34480	-0.03	616	5864	48	-33	6.0	31	2.8	3	1.1	7653	7.7	13490	27	0.3
56-	43.9356-	107.7450-2-	15-			0-W08604	54150	-0.04	564	3765	60	-41	8.1	51	4.5	3	1.3	11540	6.5	16210	33	0.3
56-	43.4339-	107.6639-2-	11-			0-W08605	53000	-0.04	1243	40350	74	-50	6.7	39	2.8	3	0.4	13700	9.3	11730	45	0.4
56-	43.4361-	107.6639-2-	12-			0-W08606	50210	-0.04	1469	35750	51	-55	5.7	32	2.1	3	0.9	8537	8.4	13350	29	0.2
56-	43.3633-	107.6483-2-	15-			0-W08608	69050	-0.05	1144	18780	39	-91	5.7	31	-1.2	2	0.7	11100	4.1	15370	31	0.1
56-	43.1081-	107.6944-2-	15-			0-W08610	51350	-0.03	612	9344	48	-63	4.3	38	1.8	3	0.7	8490	8.3	15340	31	0.3
56-	43.0844-	107.7044-2-	15-			0-W08611	59380	-0.04	642	10040	83	-65	7.4	75	3.0	4	1.1	17490	11.2	17080	47	0.5
56-	43.0764-	107.6975-2-	15-			0-W08612	51440	-0.03	613	9930	51	-71	4.8	35	1.6	3	0.8	8601	10.8	14440	33	0.4
56-	43.0392-	107.6703-2-	15-			0-W08613	43460	-0.04	527	7978	38	-74	3.8	34	-1.0	3	0.6	6655	8.3	17840	24	0.3
56-	43.0250-	107.7119-2-	15-			0-W08614	56450	-0.03	543	6239	51	-56	4.9	41	1.8	4	0.7	9612	7.3	16970	28	0.4
56-	43.0067-	107.6953-2-	15-			0-W08615	40850	-0.03	569	5761	56	-52	4.2	39	1.6	3	0.9	7131	13.5	15080	34	0.5
56-	43.0556-	107.6525-2-	15-			0-W08616	55510	-0.04	556	17170	48	-77	5.6	34	1.8	4	0.6	8784	7.3	16360	27	0.3
56-	43.0808-	107.6603-2-	15-			0-W08617	40910	-0.04	503	11170	46	-76	3.3	26	-0.9	4	0.5	6940	8.4	17190	29	0.3
56-	43.1086-	107.9917-2-	15-			0-W08619	53000	-0.03	701	21280	70	-64	6.6	62	2.3	4	0.8	12700	11.6	13980	43	0.4
56-	43.1133-	107.9839-2-	15-			0-W08620	56150	-0.04	618	21410	86	-65	8.2	76	3.0	4	1.1	16580	10.4	14500	44	0.4
56-	43.1031-	107.9583-2-	15-			0-W08621	57390	-0.04	634	25620	103	-81	7.2	59	1.8	6	1.0	12850	19.5	14240	58	0.6
56-	43.0850-	107.9419-2-	15-			0-W08622	79910	-0.07	470	10210	76	-81	9.4	60	-1.7	4	0.8	18690	3.3	16110	43	0.2
56-	43.0833-	107.9392-2-	15-			0-W08623	66450	-0.04	545	13600	80	-62	7.6	65	2.8	4	0.9	16910	6.2	18360	43	0.3
56-	43.0800-	107.9592-2-	15-			0-W08624	77370	-0.05	622	11490	128	-67	13.8	116	4.0	5	1.6	28530	7.9	21560	73	0.5
56-	43.0617-	107.9861-2-	15-			0-W08625	51060	-0.03	622	17100	60	-67	5.3	39	1.7	4	0.8	8620	10.8	14090	31	0.4
56-	43.0422-	107.9894-2-	15-			0-W08626	54440	-0.04	644	10600	46	-77	4.9	41	1.8	3	0.6	9281	6.7	15850	29	0.3
56-	43.0194-	107.9900-2-	15-			0-W08627	59230	-0.03	699	11550	52	-65	6.1	54	2.2	4	0.8	12980	8.3	15870	31	0.3
56-	43.0411-	107.9661-2-	15-			0-W08628	63030	-0.04	635	17160	83	-67	9.1	83	3.8	3	1.1	18740	8.4	15690	42	0.4
56-	43.0022-	107.9544-2-	15-			0-W08629	63740	-0.04	660	13720	56	-77	7.2	61	2.4	4	0.9	12070	6.4	18240	30	0.3
56-	43.0103-	107.9069-2-	15-			0-W08630	42830	-0.04	487	5018	28	-53	4.6	30	-1.0	2	0.4	6918	5.6	16670	17	0.2
56-	43.0153-	107.8317-2-	15-			0-W08631	51750	-0.03	520	5731	47	-54	6.3	46	1.9	4	0.7	11420	8.5	16290	30	0.3
56-	43.0117-	107.7731-2-	15-			0-W08632	43750	-0.03	501	5998	47	-79	4.2	31	1.2	2	0.7	7947	10.3	18450	26	0.4
56-	43.0147-	107.7725-2-	15-			0-W08633	41500	-0.03	428	6789	52	175	4.5	30	1.8	4	0.6	7746	8.7	18290	27	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.6383-107.8844-2-15-						0-W08578	19190	336	8167	39	-1	5.5	3.7	-245	-1	-1	9.8	2970	67	2.5		0.367
56-43.6447-107.9097-2-15-						0-W08579	12150	249	8031	-14	-1	5.1	4.5	-192	-1	-1	10.4	2867	58	2.6	63	0.327
56-43.6439-107.9292-2-15-						0-W08580	11360	198	7555	45	-1	4.5	4.2	-202	-1	-1	9.7	2132	65	2.6		0.340
56-43.6603-107.9661-2-15-						0-W08581	9558	220	7339	29	-1	4.0	2.8	-219	-1	-1	9.7	2176	64	-1.1	-29	0.361
56-43.6994-107.9481-2-15-						0-W08583	19620	327	6351	40	-1	6.8	3.4	-223	-1	-1	8.5	3448	128	2.1	60	0.388
56-43.7208-107.9342-2-12-						0-W08584	13980	259	7192	47	-1	5.5	4.5	-199	-1	-1	8.4	2876	88	1.9	53	0.417
56-43.7200-107.9658-2-15-						0-W08585	19660	318	7651	49	-2	7.5	4.8	-268	-1	-1	11.0	3508	103	2.8	59	0.309
56-43.7311-107.9744-2-15-						0-W08587	30080	349	5314	52	-2	7.7	2.5	-317	-1	-1	8.2	3580	127	-1.5	144	0.415
56-43.5850-107.9333-2-15-						0-W08588	8909	288	7016	36	-1	4.6	3.4	248	-1	-1	9.6	3760	54	2.6	50	0.344
56-43.5844-107.9250-2-11-						0-W08589	9904	434	4879	42	-2	6.3	4.4	-283	-1	-1	12.2	2416	57	3.3	76	0.402
56-43.5656-107.8950-2-15-						0-W08590	20080	220	6119	23	-1	4.4	8.0	-203	-1	-1	22.9	2600	29	4.4	-28	0.175
56-43.5583-107.8894-2-11-						0-W08591	12550	480	4412	-24	-2	6.9	3.3	-309	-1	-1	9.6	3769	81	3.1	-45	0.552
56-43.6056-107.8961-2-15-						0-W08592	6394	219	5008	16	-1	3.4	2.3	210		-1	5.9	2481	43	2.2	40	0.424
56-43.5239-107.9889-2-11-						0-W08593	19820	349	10710	-19	-1	4.9	2.8	447	-1	-1	7.6	2542	60	3.0	41	0.368
56-43.5125-107.9761-2-11-						0-W08594	18270	356	11010	-13	-1	5.1	3.5	-229	-1	-1	9.2	2874	59	2.4	46	0.315
56-43.5100-107.9753-2-15-						0-W08595	26000	317	6036	25	-1	5.7	3.4	618	-1	-1	7.4	2754	53	2.6	64	0.351
56-43.9083-107.6378-2-15-						0-W08596	2899	138	1009	18	-1	3.3	5.1	-140	-1	-1	7.5	3317	52	3.4	42	0.413
56-43.9061-107.6644-2-15-						0-W08597	3224	105	930	-15	-1	2.5	2.4	-134	-1	-1	4.4	2736	50	1.9	-22	0.591
56-43.8814-107.6350-2-15-						0-W08598	3692	100	1058	29	-1	3.0	3.0	-110			6.3	3062	55	2.5	34	0.508
56-43.8939-107.6561-2-15-						0-W08599	2836	310	788	-14	-1	4.0	6.6	-163	-1	1	11.4	7479	62	4.3	48	0.465
56-43.9256-107.6867-2-15-						0-W08600	4951	206	2329	34	-1	3.5	4.5	-172	-1	-1	8.5	3089	51	3.5	50	0.400
56-43.9114-107.6950-2-15-						0-W08601	4836	219	1789	-15	-1	2.7	2.4	-179	-1	-1	5.3	2701	48	2.3	-31	0.604
56-43.9064-107.7181-2-15-						0-W08602	3626	168	995	21	-1	3.1	3.9	-128			8.2	4138	51	3.2	55	0.524
56-43.9422-107.7500-2-15-						0-W08603	6490	153	2284	40	-1	4.0	3.4	-137	-1	-1	7.2	2609	55	2.1	59	0.347
56-43.9356-107.7450-2-15-						0-W08604	8534	170	2530	49	-1	6.6	4.4	-177	-1	-1	8.8	3056	89	3.1	-36	0.330
56-43.4339-107.6639-2-11-						0-W08605	17340	194	4921	49	-1	6.0	4.8	374	-1	-1	12.7	2628	39	2.3	59	0.203
56-43.4361-107.6639-2-12-						0-W08606	16890	171	5176	32	-1	3.7	3.4	250	-1	-1	8.0	2408	38	2.6	31	0.346
56-43.3633-107.6483-2-15-						0-W08608	13870	308	15300	-19	-1	4.5	1.4	777	-1	-1	5.4	2767	63	1.4	40	0.509
56-43.1081-107.6944-2-15-						0-W08610	9088	311	11560	33	-1	4.2	3.5	-200	-1		8.5	2258	41	2.5	22	0.409
56-43.0844-107.7044-2-15-						0-W08611	15800	379	10190	52	-1	8.2	6.2	462	-1	1	16.1	2982	54	3.6	76	0.236
56-43.0764-107.6975-2-15-						0-W08612	12220	306	11540	21	-1	4.2	3.9	-230	-1	-1	10.6	2628	48	2.8	-22	0.437
56-43.0392-107.6703-2-15-						0-W08613	8272	290	10530	-18	-1	3.2	2.3	-251	-1	-1	7.5	2710	38	-1.2	107	0.433
56-43.0250-107.7119-2-15-						0-W08614	9732	214	8103	30	-1	5.2	3.6	-188	-1	-1	9.2	3418	56	2.2	23	0.396
56-43.0067-107.6953-2-15-						0-W08615	6895	163	9257	38	-1	4.2	4.1	244	-1	1	10.4	2516	29	3.5	50	0.301
56-43.0556-107.6525-2-15-						0-W08616	11240	373	11950	32	-1	4.3	3.8	498	-1	-1	9.8	2559	41	2.7	-51	0.400
56-43.0808-107.6603-2-15-						0-W08617	9253	275	12640	26	-1	3.5	2.8	318	-1	-1	9.4	2650	34	2.2	-27	0.440
56-43.1086-107.9917-2-15-						0-W08619	20920	410	9863	31	-1	5.7	5.0	-231	-1	-1	15.0	3463	55	3.4	60	0.305
56-43.1133-107.9839-2-15-						0-W08620	19600	397	10910	48	-1	8.1	6.3	320	-1	-1	14.7	3185	54	3.8	64	0.259
56-43.1031-107.9583-2-15-						0-W08621	15670	539	11460	40	-1	6.0	7.9	-290	-1	-1	19.5	3932	50	4.2	-12	0.295
56-43.0850-107.9419-2-15-						0-W08622	30040	424	8403	-26	-2	8.0	5.1	-311	-1	-1	15.3	3995	93	2.3	-31	0.348
56-43.0833-107.9392-2-15-						0-W08623	20080	357	8238	35	-1	7.4	5.1	-229	-1	-1	15.7	3462	77	2.3	51	0.288
56-43.0800-107.9592-2-15-						0-W08624	25980	396	9422	71	-2	12.7	8.5	-245	-1	-1	27.4	4203	88	5.0	56	0.184
56-43.0617-107.9861-2-15-						0-W08625	12640	313	9902	25	-1	4.5	4.6	-230	-1	-1	10.6	3104	48	2.7	64	0.345
56-43.0422-107.9894-2-15-						0-W08626	14990	365	11110	34	-1	4.7	2.1	-265	-1	-1	7.5	2817	57	2.2	-29	0.404
56-43.0194-107.9900-2-15-						0-W08627	16200	402	10450	39	-1	6.0	4.2	-228	-1	-1	10.0	3250	58	2.7	46	0.305
56-43.0411-107.9661-2-15-						0-W08628	22900	395	10870	63	-1	8.8	5.4	-233	-1	-1	15.0	3018	57	3.1	73	0.198
56-43.0022-107.9544-2-15-						0-W08629	21800	421	11060	46	-1	5.6	4.0	-278	-1	-1	9.0	3058	54	2.6	53	0.326
56-43.0103-107.8069-2-15-						0-W08630	9493	182	5750	-17	-1	3.6	1.6	-189	-1	-1	6.1	2121	43	1.6	-27	0.439
56-43.0153-107.8317-2-15-						0-W08631	11700	276	7609	38	-1	5.8	3.7	-195	1	-1	10.7	3258	48	2.2	37	0.324
56-43.0117-107.7731-2-15-						0-W08632	6387	252	9797	37	-1	3.7	3.0	-263			9.1	2752	37	2.5	-19	0.349
56-43.0147-107.7725-2-15-						0-W08633	13190	150	17460	40	-1	4.0	3.7	-215	-1	-1	10.0	1677	30	2.8	41	0.677

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	43.0347	107.7803	2	15	-	0-W08634	10/03/77	16	15	-	-	-	-	-	-	8	1	7	4	6	-1	-	-2	3	3	3	1	-1	-	-	-	-	3.49
56	43.0272	107.8050	2	15	-	0-W08635	10/03/77	17	15	-	-	-	-	-	-	8	1	7	4	6	-1	-	-2	3	3	3	1	-1	-	-	-	-	3.14
56	43.0289	107.8064	2	15	-	0-W08636	10/03/77	17	15	-	-	-	-	-	-	8	1	7	4	6	-1	-	-2	3	3	3	1	-1	-	-	-	-	3.44
56	43.0422	107.8428	2	15	-	0-W08637	10/03/77	17	15	-	-	-	-	-	-	8	1	7	4	6	-1	-	-2	3	3	3	1	-1	-	-	-	-	3.62
56	43.0561	107.8600	2	15	-	0-W08638	10/03/77	17	15	-	-	-	-	-	-	10	1	7	4	6	-1	-	-2	3	3	3	1	-1	-	-	-	-	3.31
56	43.0789	107.8444	2	15	-	0-W08639	10/03/77	18	14	-	-	-	-	-	-	13	1	7	4	6	-1	-	-2	3	3	3	1	-1	-	-	-	-	3.39
56	43.0867	107.8733	2	15	-	0-W08640	10/03/77	18	14	-	-	-	-	-	-	13	1	7	4	6	-1	-	-2	3	3	3	1	-1	-	-	-	-	3.43
56	43.0806	107.8164	2	15	-	0-W08641	10/03/77	18	14	-	-	-	-	-	-	16	1	7	4	6	-1	-	-2	3	3	3	1	-1	-	-	-	-	3.21
56	43.1164	107.7836	2	15	-	0-W08642	10/03/77	18	14	-	-	-	-	-	-	13	1	7	4	6	-1	-	-2	3	3	3	1	-1	-	-	-	-	3.57
56	43.1078	107.5547	2	15	-	0-W08644	10/05/77	7	7	-	-	-	-	-	-	16	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	3.22
56	43.0972	107.5303	2	15	-	0-W08645	10/05/77	7	7	-	-	-	-	-	-	16	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	6.57
56	43.0647	107.5553	2	15	-	0-W08648	10/05/77	7	7	-	-	-	-	-	-	16	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.82
56	43.0542	107.5275	2	15	-	0-W08649	10/05/77	8	7	-	-	-	-	-	-	16	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	6.04
56	43.0519	107.5611	2	15	-	0-W08651	10/05/77	8	8	-	-	-	-	-	-	13	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	5.79
56	43.0447	107.6119	2	15	-	0-W08653	10/05/77	9	8	-	-	-	-	-	-	50	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	14.03
56	43.0231	107.5997	2	15	-	0-W08654	10/05/77	9	8	-	-	-	-	-	-	25	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	5.89
56	43.0069	107.6017	2	15	-	0-W08655	10/05/77	9	8	-	-	-	-	-	-	16	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	12.75
56	43.0133	107.5219	2	15	-	0-W08656	10/05/77	9	8	-	-	-	-	-	-	13	1	7	4	6	-1	-	-2	3	3	3	3	-3	1	-	-	-	5.62
56	43.0019	106.0828	2	15	-	0-W08657	11/01/77	9	8	-	-	-	-	-	-	8	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.42
56	43.0050	106.0878	2	15	-	0-W08658	11/01/77	9	8	-	-	-	-	-	-	10	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	3.03
56	43.0061	106.1042	2	15	-	0-W08660	11/01/77	10	8	-	-	-	-	-	-	10	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.55
56	43.0158	106.0456	2	15	-	0-W08663	11/01/77	10	10	-	-	-	-	-	-	5	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.60
56	43.0297	106.0397	2	15	-	0-W08665	11/01/77	11	10	-	-	-	-	-	-	8	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.83
56	43.0333	106.0458	2	15	-	0-W08666	11/01/77	11	10	-	-	-	-	-	-	8	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.68
56	43.0628	106.0183	2	15	-	0-W08667	11/01/77	12	11	-	-	-	-	-	-	6	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.22
56	43.0786	106.0247	2	15	-	0-W08668	11/01/77	12	11	-	-	-	-	-	-	5	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.94
56	43.0850	106.0392	2	15	-	0-W08669	11/01/77	12	11	-	-	-	-	-	-	8	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.96
56	43.0961	106.0242	2	15	-	0-W08670	11/01/77	12	11	-	-	-	-	-	-	6	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.84
56	43.0014	106.0436	2	15	-	0-W08671	11/01/77	13	11	-	-	-	-	-	-	8	1	7	4	6	-1	-	-2	3	3	3	3	-1	-	-	-	-	2.99
56	43.4083	106.7483	2	15	-	0-W08672	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.83
56	43.4103	106.7486	2	15	-	0-W08673	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.66
56	43.4172	106.7217	2	15	-	0-W08674	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.83
56	43.4475	106.7139	2	11	-	0-W08677	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.95
56	43.4917	106.7953	2	11	-	0-W08679	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.84
56	43.4933	106.7367	2	11	-	0-W08680	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.84
56	43.4644	106.7681	2	15	-	0-W08681	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.22
56	43.4517	106.7936	2	11	-	0-W08683	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.47
56	43.4308	106.7897	2	11	-	0-W08685	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.94
56	43.4322	106.8194	2	15	-	0-W08686	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.55
56	43.4158	106.8553	2	11	-	0-W08689	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.23
56	43.4022	106.8647	2	11	-	0-W08690	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.52
56	43.4194	106.8950	2	15	-	0-W08691	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.59
56	43.4989	106.8994	2	12	-	0-W08692	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.47
56	43.4944	106.8528	2	15	-	0-W08693	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.28
56	43.4700	106.8864	2	15	-	0-W08694	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.02
56	43.4875	106.8503	2	15	-	0-W08695	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.05
56	43.4578	106.8400	2	11	-	0-W08696	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.51
56	43.4719	106.5106	2	15	-	0-W08697	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40
56	43.4578	106.4739	2	15	-	0-W08698	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.25
56	43.4458	106.4733	2	15	-	0-W08700	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.51
56	43.4206	106.4681	2	15	-	0-W08702	11/26/77	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.72

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.0347-107.7803-2-15-						0-W08634	-5	-5	-5	18	-20	-15	10	-10	-15	2	28
56-43.0272-107.8050-2-15-						0-W08635	-5	-5	-5	13	-20	-15	10	-10	-15	2	18
56-43.0289-107.8064-2-15-						0-W08636	-5	-5	-5	16	-20	19	7	-10	-15	2	27
56-43.0422-107.8428-2-15-						0-W08637	-5	-5	-5	14	-20	-15	9	-10	-15	2	25
56-43.0561-107.8600-2-15-						0-W08638	-5	-5	-5	13	-20	-15	-5	-10	-15	2	21
56-43.0789-107.8444-2-15-						0-W08639	-5	-5	23	25	-20	23	71	-10	-15	2	22
56-43.0867-107.8733-2-15-						0-W08640	-5	-5	-5	19	-20	-15	18	-10	-15	2	28
56-43.0806-107.8164-2-15-						0-W08641	-5	-5	-5	61	-20	-15	7	-10	-15	2	21
56-43.1164-107.7836-2-15-						0-W08642	-5	-5	-5	16	-20	-15	13	-10	-15	2	21
56-43.1078-107.5547-2-15-						0-W08644	-5	-5	-5	24	-20	-15	9	-10	-15	2	29
56-43.0972-107.5303-2-15-						0-W08645	-5	-5	-5	12	-20	15	14	-10	-15	2	36
56-43.0647-107.5553-2-15-						0-W08648	-5	-5	-5	20	-20	-15	8	-10	-15	2	28
56-43.0542-107.5275-2-15-						0-W08649	-5	-5	-5	-10	-20	-15	9	-10	-15	2	15
56-43.0519-107.5611-2-15-						0-W08651	-5	-5	-5	20	-20	-15	13	-10	-15	3	28
56-43.0447-107.6119-2-15-						0-W08653	-5	-5	-5	27	-20	-15	14	-10	-15	3	45
56-43.0231-107.5997-2-15-						0-W08654	-5	-5	-5	-10	-20	-15	12	-10	-15	2	24
56-43.0069-107.6017-2-15-						0-W08655	-5	-5	-5	15	-20	-15	19	-10	-15	2	17
56-43.0133-107.5219-2-15-						0-W08656	-5	-5	-5	22	-20	-15	8	-10	-15	2	25
56-43.0019-106.0828-2-15-						0-W08657	-5	-5	-5	11	-20	-15	18	-10	-15	2	23
56-43.0050-106.0878-2-15-						0-W08658	-5	-5	-5	14	-20	-15	7	-10	-15	2	22
56-43.0061-106.1042-2-15-						0-W08660	-5	-5	-5	14	-20	-15	5	-10	-15	2	20
56-43.0158-106.0456-2-15-						0-W08663	-5	-5	-5	12	-20	-15	10	-10	-15	1	17
56-43.0297-106.0397-2-15-						0-W08665	-5	-5	-5	21	-20	-15	8	-10	-15	2	19
56-43.0333-106.0458-2-15-						0-W08666	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	16
56-43.0628-106.0183-2-15-						0-W08667	-5	-5	-5	15	-20	-15	9	-10	-15	1	12
56-43.0786-106.0247-2-15-						0-W08668	-5	-5	-5	17	-20	-15	6	-10	-15	2	25
56-43.0850-106.0392-2-15-						0-W08669	-5	-5	-5	12	-20	-15	10	-10	-15	2	13
56-43.0961-106.0242-2-15-						0-W08670	-5	-5	-5	15	-20	-15	8	-10	-15	2	18
56-43.0014-106.0436-2-15-						0-W08671	-5	-5	-5	20	-20	-15	7	-10	-15	2	25
56-43.4083-106.7483-2-15-						0-W08672	-5	-5	-5	15	-20	-15	-5	-10	-15	2	74
56-43.4103-106.7486-2-15-						0-W08673	-5	-5	-5	21	-20	-15	7	-10	-15	2	38
56-43.4172-106.7217-2-15-						0-W08674	-5	-5	-5	10	-20	-15	9	-10	-15	2	34
56-43.4475-106.7139-2-11-						0-W08677	-5	-5	-5	15	-20	-15	-5	-10	-15	2	43
56-43.4917-106.7953-2-11-						0-W08679	-5	-5	-5	22	-20	-15	10	-10	-15	2	26
56-43.4933-106.7367-2-11-						0-W08680	-5	-5	-5	11	-20	-15	8	-10	-15	2	27
56-43.4644-106.7681-2-15-						0-W08681	-5	-5	-5	21	-20	27	-5	-10	15	2	31
56-43.4517-106.7936-2-11-						0-W08683	-5	-5	-5	29	-20	-15	-5	-10	-15	2	21
56-43.4308-106.7897-2-11-						0-W08685	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	21
56-43.4322-106.8194-2-15-						0-W08686	-5	-5	-5	18	-20	-15	9	-10	-15	2	48
56-43.4158-106.8553-2-11-						0-W08689	-5	-5	-5	18	-20	-15	-5	-10	-15	2	26
56-43.4072-106.8647-2-11-						0-W08690	-5	-5	-5	-10	-20	-15	7	-10	-15	2	30
56-43.4194-106.8950-2-15-						0-W08691	-5	-5	-5	18	-20	-15	5	-10	-15	1	68
56-43.4989-106.8994-2-12-						0-W08692	-5	-5	-5	18	-20	-15	5	-10	-15	2	34
56-43.4944-106.8528-2-15-						0-W08693	-5	-5	-5	24	-20	26	-5	-10	-15	2	80
56-43.4700-106.8864-2-15-						0-W08694	-5	5	-5	22	-20	-15	7	-10	-15	1	81
56-43.4875-106.8503-2-15-						0-W08695	-5	-5	-5	19	-20	15	-5	-10	-15	2	87
56-43.4578-106.8400-2-11-						0-W08696	-5	-5	-5	10	-20	-15	-5	-10	-15	1	47
56-43.4719-106.5106-2-15-						0-W08697	-5	5	-5	16	-20	-15	6	-10	-15	2	35
56-43.4578-106.4739-2-15-						0-W08698	-5	6	-5	12	-20	-15	12	-10	-15	3	30
56-43.4458-106.4733-2-15-						0-W08700	-5	-5	-5	21	-20	20	8	-10	-15	3	59
56-43.4206-106.4681-2-15-						0-W08702	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	33

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.0347-	107.7803-	2-	15-	0-	W08634	48470	-0.04	678	7551	65	-64	5.4	45	1.8	4	0.9	10060	12.7	15500	34	0.4
56-	43.0272-	107.8050-	2-	15-	0-	W08635	39740	-0.03	603	6119	34	-54	3.2	27	-0.9	4	0.7	5644	10.7	15810	21	0.3
56-	43.0289-	107.8064-	2-	15-	0-	W08636	51590	-0.03	609	17000	50	-60	5.1	52	2.2	4	0.8	11390	8.7	16500	31	0.3
56-	43.0422-	107.8428-	2-	15-	0-	W08637	50000	-0.03	504	12550	67	-63	6.6	46	2.1	3	0.9	13490	10.0	14860	37	0.3
56-	43.0561-	107.8600-	2-	15-	0-	W08638	44010	-0.03	525	6690	66	-66	5.2	46	2.0	3	0.8	10480	13.4	17790	34	0.4
56-	43.0789-	107.8444-	2-	15-	0-	W08639	51140	-0.05	655	9234	40	-60	4.1	34	-1.3	4	0.7	10990	8.0	16390	25	0.3
56-	43.0867-	107.8733-	2-	15-	0-	W08640	50920	-0.03	595	8804	61	-64	4.9	37	1.6	4	0.8	9957	11.7	16850	34	0.3
56-	43.0806-	107.8164-	2-	15-	0-	W08641	48400	-0.04	506	35530	51	164	6.9	43	2.0	3	1.0	18610	9.0	13980	30	0.3
56-	43.1164-	107.7836-	2-	15-	0-	W08642	46590	-0.04	582	10680	95	-75	5.2	57	1.6	4	1.0	12240	17.0	12830	50	0.4
56-	43.1078-	107.5547-	2-	15-	0-	W08644	55300	-0.04	513	20990	33	-67	5.5	45	-1.2	3	0.6	10870	4.3	17190	22	0.2
56-	43.0972-	107.5303-	2-	15-	0-	W08645	55420	-0.03	583	8497	66	-61	4.5	40	2.1	5	0.8	9727	11.1	17270	38	0.4
56-	43.0647-	107.5553-	2-	15-	0-	W08648	53860	-0.03	589	20440	49	-76	6.2	54	1.5	3	0.8	11990	6.0	16670	30	0.3
56-	43.0542-	107.5275-	2-	15-	0-	W08649	42480	-0.03	437	5632	82	-67	4.3	36	-0.9	4	0.8	8921	16.6	17620	45	0.5
56-	43.0519-	107.5611-	2-	15-	0-	W08651	53890	-0.04	551	5371	58	-60	4.6	38	-1.1	4	0.6	9076	10.1	16410	31	0.3
56-	43.0447-	107.6119-	2-	15-	0-	W08653	71860	-0.04	621	14100	72	-64	7.1	45	4.9	5	0.8	16260	5.5	16620	39	0.3
56-	43.0231-	107.5997-	2-	15-	0-	W08654	51630	-0.03	553	6092	73	-72	5.4	37	2.3	5	0.9	9704	14.7	17910	46	0.5
56-	43.0069-	107.6017-	2-	15-	0-	W08655	52270	-0.05	440	6193	415	-76	6.1	77	1.6	12	1.3	13120	39.5	13830	244	1.3
56-	43.0133-	107.5219-	2-	15-	0-	W08656	54700	-0.04	608	5319	55	-66	4.5	28	-1.1	5	0.7	7673	10.3	18290	31	0.4
56-	43.0019-	106.0828-	2-	15-	0-	W08657	40190	-0.02	568	7271	53	-51	2.4	23	1.3	3	0.6	6502	7.6	12160	31	0.3
56-	43.0050-	106.0878-	2-	15-	0-	W08658	42250	-0.03	503	4975	61	-57	4.7	31	1.6	4	0.8	8703	11.6	15380	38	0.4
56-	43.0061-	106.1042-	2-	15-	0-	W08660	44520	-0.03	453	5432	58	-60	4.2	34	1.9	2	0.7	8981	8.7	16090	31	0.3
56-	43.0158-	106.0456-	2-	15-	0-	W08663	39010	-0.03	536	5085	40	-51	3.0	15	-0.9	3	0.6	5466	7.5	15300	21	0.2
56-	43.0297-	106.0397-	2-	15-	0-	W08665	37860	-0.03	544	5467	48	-50	2.5	21	1.2	4	0.6	5398	10.2	13840	33	0.3
56-	43.0333-	106.0458-	2-	15-	0-	W08666	39850	-0.03	582	5164	53	-56	3.5	26	1.7	3	0.8	7380	9.4	13090	34	0.3
56-	43.0628-	106.0183-	2-	15-	0-	W08667	36520	-0.03	435	4786	48	99	3.9	23	1.5	2	0.7	6121	9.0	13790	29	0.2
56-	43.0786-	106.0247-	2-	15-	0-	W08668	39000	-0.04	540	6202	34	-35	3.5	27	2.7	3	0.6	7100	6.4	15610	19	0.2
56-	43.0850-	106.0392-	2-	15-	0-	W08669	39330	-0.03	529	5803	51	-51	3.0	27	1.2	4	0.6	6621	10.1	14920	33	0.4
56-	43.0961-	106.0242-	2-	15-	0-	W08670	38860	-0.03	529	5320	57	-56	3.6	26	1.9	3	0.7	7328	10.9	15270	35	0.4
56-	43.0014-	106.0436-	2-	15-	0-	W08671	47780	-0.04	482	4437	62	-41	5.8	45	2.5	3	1.0	10270	7.3	14910	30	0.4
56-	43.4083-	106.7483-	2-	15-	0-	W08672	36680	-0.04	285	71960	75	98	4.5	39	1.8	3	1.0	9833	15.0	12710	49	0.5
56-	43.4103-	106.7486-	2-	15-	0-	W08673	52420	-0.03	638	8648	44	-54	4.4	31	2.3	4	0.8	9592	5.8	15750	28	0.3
56-	43.4172-	106.7217-	2-	15-	0-	W08674	53940	-0.04	662	7954	52	-61	6.3	33	3.3	3	0.8	11910	6.1	17950	29	0.3
56-	43.4475-	106.7139-	2-	11-	0-	W08677	50350	-0.04	651	9670	65	-51	5.8	43	2.8	3	1.1	11040	8.7	17520	31	0.3
56-	43.4917-	106.7953-	2-	11-	0-	W08679	41350	-0.03	676	12400	39	-53	3.5	21	2.0	3	0.6	6993	6.6	14990	24	0.2
56-	43.4933-	106.7367-	2-	11-	0-	W08680	51780	-0.04	534	10680	46	-65	5.9	30	3.4	3	0.7	10950	5.0	13720	25	0.3
56-	43.4644-	106.7681-	2-	15-	0-	W08681	37120	-0.04	1009	28590	46	-64	7.4	37	2.0	3	1.4	13320	7.7	11950	22	0.4
56-	43.4517-	106.7936-	2-	11-	0-	W08683	45480	-0.05	389	45350	33	-58	4.4	26	1.6	4	0.7	8824	4.2	16480	21	0.3
56-	43.4308-	106.7897-	2-	11-	0-	W08685	37410	-0.03	353	37400	23	-52	3.2	24	1.1	2	0.5	5664	6.2	15780	15	0.2
56-	43.4322-	106.8194-	2-	15-	0-	W08686	43920	-0.04	319	42520	52	-67	6.6	52	3.0	4	0.8	12380	9.8	17320	28	0.4
56-	43.4158-	106.8553-	2-	11-	0-	W08689	31270	-0.04	259	43560	42	201	5.5	38	2.2	3	0.8	7803	9.2	16620	18	0.3
56-	43.4022-	106.8647-	2-	11-	0-	W08690	34290	-0.04	302	42520	33	103	3.8	25	2.2	3	-0.2	6309	6.7	16210	14	0.2
56-	43.4194-	106.8050-	2-	15-	0-	W08691	41880	-0.03	323	46260	42	-50	5.3	40	2.5	4	0.6	10110	7.6	19440	21	0.3
56-	43.4989-	106.8994-	2-	12-	0-	W08692	42850	-0.04	453	57580	50	109	5.9	45	2.5	4	0.9	12490	10.0	15170	25	0.3
56-	43.4944-	106.8528-	2-	15-	0-	W08693	49080	-0.05	297	63270	61	-77	9.3	58	3.2	3	0.8	15580	7.2	20030	31	0.3
56-	43.4700-	106.8864-	2-	15-	0-	W08694	34590	-0.05	301	111200	26	131	5.3	36	-1.3	2	0.5	8561	3.9	15120	15	0.2
56-	43.4875-	106.8503-	2-	15-	0-	W08695	36030	-0.04	261	114200	33	93	5.4	43	1.9	3	0.6	9496	4.0	15080	18	0.2
56-	43.4578-	106.8400-	2-	11-	0-	W08696	32500	-0.04	328	106300	43	-67	6.5	50	1.8	3	0.7	8860	6.4	13860	21	0.2
56-	43.4719-	106.5106-	2-	15-	0-	W08697	58060	-0.04	622	11770	72	-67	5.1	28	3.3	3	0.9	11440	5.9	14950	35	0.4
56-	43.4579-	106.4736-	2-	15-	0-	W08698	55890	-0.04	606	11250	44	-55	4.6	22	2.7	4	0.7	8579	3.7	14300	27	0.3
56-	43.4458-	106.4733-	2-	15-	0-	W08700	64360	-0.04	670	11840	48	-44	5.2	46	3.9	4	0.8	12000	5.4	18340	30	0.3
56-	43.4206-	106.4681-	2-	15-	0-	W08702	44900	-0.03	562	9602	48	71	4.1	23	2.1	3	0.9	7611	6.0	14190	29	0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.0347-107.7803-2-15-						0-W08634	7092	317	10540	44	-1	4.5	4.0	366	-1	-1	11.1	3208	41	3.8	65	0.314
56-43.0272-107.8050-2-15-						0-W08635	4715	228	10390	-15	-1	2.9	2.5	-170	-1	-1	7.8	2517	29	2.9	-23	0.403
56-43.0289-107.8064-2-15-						0-W08636	16280	337	9789	36	-1	5.3	3.5	-201		-1	9.8	3176	52	2.4	-21	0.351
56-43.0422-107.8428-2-15-						0-W08637	12800	314	8583	36	-1	6.1	4.4	-221	-1	-1	12.1	2780	54	3.2	-23	0.299
56-43.0561-107.8600-2-15-						0-W08638	8355	256	9762	37	-1	4.6	4.2	-214	-1	-1	11.8	2670	40	3.1	39	0.281
56-43.0789-107.8444-2-15-						0-W08639	8633	300	11050	-21	-1	4.2	2.4	-199	-1	-1	7.2	2725	46	2.3	2741	0.471
56-43.0867-107.8733-2-15-						0-W08640	8748	352	12190	31	-1	4.5	3.7	322	-1	-1	10.6	2905	44	2.8	71	0.324
56-43.0806-107.8164-2-15-						0-W08641	11580	319	11040	40	-1	5.2	3.8	-246	-1	-1	10.4	2881	42	2.2	106	0.309
56-43.1164-107.7836-2-15-						0-W08642	7836	339	12440	19	-1	5.1	6.4	-239	-1	-1	20.6	2586	41	3.8	68	0.173
56-43.1078-107.5547-2-15-						0-W08644	16100	436	10270	-19	-1	5.2	2.4	-235	-1	-1	7.8	2590	49	1.6	-32	0.413
56-43.0972-107.5303-2-15-						0-W08645	7357	274	11590	33	-1	5.0	3.7	277	-1	-1	15.3	2665	48	3.7	-18	0.429
56-43.0647-107.5553-2-15-						0-W08648	11330	407	11610	37	-1	5.3	3.8	-259	-1	-1	10.0	2074	37	2.3	64	0.282
56-43.0542-107.5275-2-15-						0-W08649	4004	193	11530	34	-1	4.0	5.0	-201	-1	-1	19.7	2181	33	4.8	-29	0.307
56-43.0519-107.5611-2-15-						0-W08651	6855	250	11130	-18	-1	4.2	3.3	-190	-1	-1	12.7	2782	46	2.9	-35	0.456
56-43.0447-107.6119-2-15-						0-W08653	16750	488	7417	45	-1	7.2	5.2	-250	-1	1	14.1	3703	78	2.8	64	0.995
56-43.0231-107.5997-2-15-						0-W08654	4426	251	12370	39	-1	4.7	5.5	-228	-1	-1	16.7	2895	39	4.1	46	0.353
56-43.0069-107.6017-2-15-						0-W08655	7001	389	11910	47	-1	6.6	28.5	-256	2	2	112.7	3395	97	11.1	-22	0.113
56-43.0133-107.5219-2-15-						0-W08656	4680	262	12750	-17	-1	4.0	3.2	-205	-1	-1	11.1	2650	41	3.3	74	0.506
56-43.0019-106.0828-2-15-						0-W08657	6424	207	8542	28	-1	2.9	2.8	-161			9.4	1907	39	1.9	-24	0.257
56-43.0050-106.0878-2-15-						0-W08658	5743	206	8456	31	-1	4.1	4.4	-188	-1	-1	12.3	2478	43	3.2	74	0.246
56-43.0061-106.1042-2-15-						0-W08660	4234	193	8103	31	-1	4.0	4.7	-191	-1	-1	10.2	2228	52	2.8	-20	0.250
56-43.0158-106.0456-2-15-						0-W08663	4720	192	8657	18	-1	2.6	1.9	180	-1		6.3	2161	35	1.5	-23	0.413
56-43.0297-106.0397-2-15-						0-W08665	3613	186	8711	26	-1	2.7	3.1	326	-1		9.6	2217	33	2.7	60	0.295
56-43.0333-106.0458-2-15-						0-W08666	4826	202	8772	37	-1	3.4	3.9	-186	-1		10.1	2266	42	2.5	-29	0.265
56-43.0628-106.0183-2-15-						0-W08667	5209	168	8489	28	-1	2.9	3.5	-192	-1		8.5	1354	38	2.2	54	0.261
56-43.0786-106.0247-2-15-						0-W08668	6546	195	3162	-16	-1	3.5	2.1	-150	-1	-1	5.5	2441	58	1.9	-28	0.535
56-43.0850-106.0392-2-15-						0-W08669	4648	205	8790	26	-1	3.1	3.3	-162	-1		10.3	2180	44	2.9	15	0.287
56-43.0961-106.0242-2-15-						0-W08670	5665	200	8573	45	-1	3.4	4.2	-185	-1		11.6	2066	33	2.8	26	0.245
56-43.0014-106.0436-2-15-						0-W08671	9395	175	2776	53	-1	5.6	4.0	-182	-1	-1	8.8	2499	76	2.2	69	0.340
56-43.4083-106.7483-2-15-						0-W08672	101200	266	5288	38	-1	4.6	4.9	-220	-1	-1	15.4	2923	42	4.3	23	0.184
56-43.4103-106.7486-2-15-						0-W08673	9136	238	7602	39	-1	4.2	3.4	315		-1	9.1	2336	64	2.6	45	0.402
56-43.4172-106.7217-2-15-						0-W08674	9195	259	6534	55	-1	5.2	4.3	-226	-1	-1	10.3	2543	61	3.3	-55	0.372
56-43.4475-106.7139-2-11-						0-W08677	12260	102	4936	50	-1	5.5	4.9	-174	-1	-1	9.5	2322	88	2.3	-15	0.311
56-43.4917-106.7953-2-11-						0-W08679	6830	192	8448	27	-1	2.8	2.8	213			7.0	1895	39	1.8	33	0.406
56-43.4933-106.7367-2-11-						0-W08680	8456	147	6633	45	-1	5.1	3.4	-219	-1	-1	9.9	2377	43	2.6	-66	0.388
56-43.4644-106.7681-2-15-						0-W08681	8915	610	4380	30	-1	4.8	3.8	-296	-1	-1	7.1	1943	47	3.3	98	0.454
56-43.4517-106.7936-2-11-						0-W08683	20040	299	6373	-20	-1	4.5	2.4	245	-1	-1	4.5	2642	48	2.5	-32	0.549
56-43.4308-106.7897-2-11-						0-W08685	17490	249	7991	26	-1	3.2	2.0	-173			4.0	2105	30	1.7	-15	0.485
56-43.4322-106.8194-2-15-						0-W08686	35710	394	7342	35	1	6.5	4.2	-253	-1	-1	7.8	3238	47	3.3	-43	0.327
56-43.4158-106.8553-2-11-						0-W08689	32780	263	4645	-15	-1	4.0	3.3	-226	-1	-1	5.6	2651	33	2.2	-25	0.398
56-43.4022-106.8647-2-11-						0-W08690	31940	259	4753	-18	-1	3.5	-1.8	309	-1	-1	3.7	2688	36	1.6	41	0.681
56-43.4194-106.8950-2-15-						0-W08691	40720	335	5330	31	-1	5.2	3.1	250	1	-1	6.9	3314	45	2.2	-18	0.375
56-43.4989-106.8994-2-12-						0-W08692	34860	392	7998	32	-1	6.2	3.7	-254	-1	-1	7.2	3110	47	3.2	67	0.343
56-43.4944-106.8528-2-15-						0-W08693	63850	456	5796	48	-2	7.6	4.7	-317	-1	-1	7.9	3811	61	3.4	57	0.289
56-43.4700-106.8864-2-15-						0-W08694	57510	318	4113	-20	-1	4.2	1.8	793	-1	-1	4.2	2245	44	-1.2	-39	0.481
56-43.4875-106.8503-2-15-						0-W08695	56540	313	4234	21	-1	4.6	2.6	946	-1	-1	4.6	2214	41	1.9	63	0.446
56-43.4578-106.8400-2-11-						0-W08696	53170	266	5003	-17	-1	4.8	2.9	884	-1	-1	5.6	2571	37	2.1	-18	0.448
56-43.4719-106.5106-2-15-						0-W08697	11670	101	8385	45	-1	5.3	5.0	-200	-1	-1	13.0	2107	53	3.0	50	0.262
56-43.4578-106.4739-2-15-						0-W08698	14390	102	8328	32	-1	3.9	3.0	234	-1	-1	8.4	2437	58	-1.0	-31	0.387
56-43.4458-106.4733-2-15-						0-W08700	14270	136	4592	43	-1	6.8	3.7	-161	1	-1	9.3	3530	122	2.2	64	0.377
56-43.4206-106.4681-2-15-						0-W08702	7599	66	8171	40	-1	3.7	3.2	-164	-1		8.2	2269	45	1.9	45	0.332

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	-43.3944	-106.4836	-2	-15	-	0-W08703	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.31
56	-43.3894	-106.5458	-2	-15	-	0-W08705	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
56	-43.4100	-106.5489	-2	-11	-	0-W08706	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.42
56	-43.4314	-106.5797	-2	-11	-	0-W08714	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.11
56	-43.4364	-106.6053	-2	-15	-	0-W08715	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.13
56	-43.4217	-106.5647	-2	-15	-	0-W08716	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
56	-43.3933	-106.5900	-2	-15	-	0-W08717	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.18
56	-43.3847	-106.4461	-2	-15	-	0-W08720	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66
56	-43.4017	-106.3458	-2	-15	-	0-W08722	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.01
56	-43.3903	-106.3147	-2	-15	-	0-W08723	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.02
56	-43.3844	-106.2831	-2	-15	-	0-W08724	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.09
56	-43.4264	-106.2997	-2	-15	-	0-W08728	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.82
56	-43.4267	-106.3114	-2	-15	-	0-W08729	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.95
56	-43.4550	-106.4117	-2	-15	-	0-W08730	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.46
56	-43.4975	-106.4089	-2	-15	-	0-W08731	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
56	-43.7544	-106.2717	-2	-15	-	0-W08732	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.88
56	-43.8189	-106.3392	-2	-15	-	0-W08737	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.73
56	-43.8278	-106.3511	-2	-15	-	0-W08738	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.24
56	-43.8322	-106.3264	-2	-15	-	0-W08739	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.67
56	-43.8514	-106.2711	-2	-15	-	0-W08740	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.64
56	-43.8911	-106.1858	-2	-15	-	0-W08743	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.17
56	-43.9133	-106.2386	-2	-15	-	0-W08744	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.26
56	-43.9219	-106.1842	-2	-15	-	0-W08745	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
56	-43.9786	-106.1833	-2	-15	-	0-W08748	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.31
56	-43.9747	-106.2222	-2	-15	-	0-W08749	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.80
56	-43.9803	-106.2344	-2	-15	-	0-W08750	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.26
56	-43.9831	-106.2367	-2	-15	-	0-W08751	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.69
56	-43.9933	-106.3156	-2	-15	-	0-W08753	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.92
56	-43.9947	-106.3264	-2	-15	-	0-W08754	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.83
56	-43.9989	-106.4025	-2	-15	-	0-W08756	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
56	-43.9878	-106.4908	-2	-15	-	0-W08757	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.59
56	-43.9553	-106.3897	-2	-15	-	0-W08759	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.51
56	-43.9231	-106.3639	-2	-15	-	0-W08760	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.42
56	-43.9378	-106.3592	-2	-15	-	0-W08761	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.32
56	-43.9031	-106.3381	-2	-15	-	0-W08762	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.24
56	-43.9089	-106.3261	-2	-15	-	0-W08763	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.61
56	-43.9456	-106.3328	-2	-15	-	0-W08764	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.53
56	-43.9072	-106.3061	-2	-15	-	0-W08765	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.46
56	-43.9369	-106.2896	-2	-15	-	0-W08766	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.06
56	-43.9056	-106.2733	-2	-15	-	0-W08767	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.93
56	-43.9547	-106.4269	-2	-15	-	0-W08768	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.48
56	-43.4542	-106.3736	-2	-15	-	0-W08771	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.75
56	-43.4692	-106.3000	-2	-15	-	0-W08772	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.59
56	-43.4781	-106.2778	-2	-15	-	0-W08773	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.92
56	-43.4472	-106.2733	-2	-15	-	0-W08774	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.95
56	-43.4333	-106.2764	-2	-15	-	0-W08775	-11/26/77	-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.99
56	-43.3661	-106.2778	-2	-15	-	0-W08776	-08/21/77	-12	28	-	-	-	-	-	-	11	-1	-7	-5	-6	-	-1	-	-2	-	-	-	-	-	-1	-	-	-	-	2.43
56	-43.3553	-106.2850	-2	-15	-	0-W08777	-08/21/77	-12	28	-	-	-	-	-	-	11	-1	-7	-5	-6	-	-1	-	-2	-3	-3	-3	-1	-	-1	-	-	-	-	2.81
56	-43.1594	-106.3328	-2	-15	-	0-W08779	-08/21/77	-14	26	-	-	-	-	-	-	11	-1	-7	-5	-6	-	-1	-	-2	-3	-3	-3	-1	-	-1	-	-	-	-	2.45
56	-43.1603	-106.3303	-2	-15	-	0-W08780	-08/21/77	-14	26	-	-	-	-	-	-	4	-1	-7	-5	-6	-	-1	-	-2	-3	-3	-3	-1	-	-1	-	-	-	-	2.73
56	-43.2225	-106.2647	-2	-15	-	0-W08783	-08/09/77	-15	26	-	-	-	-	-	-	6	-1	-7	-5	-6	-	-1	-	-2	-3	-3	-3	-1	-	-1	-	-	-	-	3.71

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						USGS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.3944-106.4836-2-15-					0	W08703	-5	-5	-5	42	-20	32	11	-10	-15	5	93
56-43.3894-106.5458-2-15-					0	W08705	-5	-5	-5	21	-20	-15	12	-10	-15	3	51
56-43.4100-106.5489-2-11-					0	W08706	-5	-5	-5	16	-20	-15	8	-10	-15	2	41
56-43.4314-106.5797-2-11-					0	W08714	-5	-5	-5	21	-20	22	14	-10	-15	2	37
56-43.4364-106.6053-2-15-					0	W08715	-5	-5	-5	18	-20	-15	5	-10	-15	2	56
56-43.4217-106.5547-2-15-					0	W08716	-5	-5	-5	31	-20	-15	11	-10	-15	2	47
56-43.3933-106.5900-2-15-					0	W08717	-5	5	-5	21	-20	-15	6	-10	-15	2	29
56-43.3847-106.4461-2-15-					0	W08720	-5	-5	-5	19	-20	20	8	-10	-15	2	38
56-43.4017-106.3458-2-15-					0	W08722	-5	-5	-5	23	24	-15	16	-10	-15	3	47
56-43.3903-106.3147-2-15-					0	W08723	-5	-5	-5	34	-20	27	20	-10	-15	2	48
56-43.3844-106.2831-2-15-					0	W08724	-5	-5	-5	27	-20	-15	14	-10	-15	2	48
56-43.4264-106.2997-2-15-					0	W08728	-5	-5	-5	36	-20	-15	-5	-10	17	2	48
56-43.4267-106.3114-2-15-					0	W08729	-5	-5	-5	29	-20	16	16	-10	-15	2	51
56-43.4550-106.4117-2-15-					0	W08730	-5	-5	-5	28	-20	22	6	-10	-15	3	35
56-43.4975-106.4089-2-15-					0	W08731	-5	-5	-5	11	22	-15	-5	-10	-15	3	48
56-43.7544-106.2717-2-15-					0	W08732	-5	-5	-5	17	-20	-15	10	-10	-15	2	25
56-43.8189-106.3392-2-15-					0	W08737	-5	-5	-5	11	-20	-15	-5	-10	-15	3	30
56-43.8278-106.3511-2-15-					0	W08738	-5	-5	-5	13	-20	19	-5	-10	-15	2	19
56-43.8322-106.3264-2-15-					0	W08739	-5	-5	-5	25	-20	-15	13	-10	-15	2	21
56-43.8514-106.2711-2-15-					0	W08740	-5	-5	-5	22	-20	17	21	-10	-15	2	27
56-43.8911-106.1858-2-15-					0	W08743	-5	-5	-5	26	-20	18	8	-10	-15	2	27
56-43.9133-106.2386-2-15-					0	W08744	-5	-5	-5	26	-20	-15	14	-10	-15	2	26
56-43.9219-106.1842-2-15-					0	W08745	-5	-5	-5	20	-20	-15	11	-10	-15	2	29
56-43.9786-106.1833-2-15-					0	W08748	-5	-5	-5	16	-20	-15	9	-10	-15	2	20
56-43.9747-106.2222-2-15-					0	W08749	-5	-5	-5	28	24	-15	13	-10	-15	3	27
56-43.9803-106.2344-2-15-					0	W08750	-5	-5	-5	20	-20	-15	14	-10	-15	2	25
56-43.9831-106.2367-2-15-					0	W08751	-5	-5	-5	12	-20	-15	9	-10	-15	2	27
56-43.9933-106.3156-2-15-					0	W08753	-5	-5	-5	19	-20	-15	5	-10	-15	2	23
56-43.9947-106.3264-2-15-					0	W08754	-5	-5	-5	18	23	-15	15	-10	-15	2	17
56-43.9989-106.4025-2-15-					0	W08756	-5	-5	-5	21	-20	26	8	-10	-15	3	33
56-43.9878-106.4908-2-15-					0	W08757	-5	-5	-5	19	-20	-15	8	-10	-15	2	27
56-43.9553-106.3897-2-15-					0	W08758	-5	-5	-5	19	21	28	15	-10	-15	3	30
56-43.9231-106.3639-2-15-					0	W08760	-5	-5	-5	32	-20	-15	19	10	-15	3	40
56-43.9378-106.3592-2-15-					0	W08761	-5	-5	-5	39	-20	30	19	-10	-15	3	35
56-43.9031-106.3381-2-15-					0	W08762	-5	-5	-5	26	-20	-15	9	-10	-15	2	37
56-43.9089-106.3261-2-15-					0	W08763	-5	-5	-5	22	26	-15	14	-10	-15	2	19
56-43.9456-106.3328-2-15-					0	W08764	-5	-5	-5	21	-20	-15	7	-10	-15	2	21
56-43.9072-106.3061-2-15-					0	W08765	-5	-5	-5	25	-20	-15	9	-10	-15	2	16
56-43.9369-106.2886-2-15-					0	W08766	-5	-5	-5	25	-20	-15	-5	-10	-15	2	23
56-43.9056-106.2733-2-15-					0	W08767	-5	-5	-5	26	21	-15	10	-10	-15	2	29
56-43.9547-106.4269-2-15-					0	W08768	-5	-5	-5	27	-20	-15	16	-10	-15	2	25
56-43.4542-106.3736-2-15-					0	W08771	-5	-5	-5	30	-20	-15	10	-10	-15	2	32
56-43.4692-106.3000-2-15-					0	W08772	-5	-5	-5	27	-20	19	7	-10	-15	3	36
56-43.4781-106.2778-2-15-					0	W08773	-5	-5	-5	18	-20	-15	5	-10	-15	2	21
56-43.4472-106.2733-2-15-					0	W08774	-5	-5	-5	17	26	-15	9	-10	-15	2	24
56-43.4333-106.2764-2-15-					0	W08775	-5	-5	-5	13	-20	23	7	-10	-15	3	41
56-43.3661-106.2778-2-15-					0	W08776	-5	-5	-5	20	-20	24	10	-10	-15	2	27
56-43.3553-106.2850-2-15-					0	W08777	-5	-5	-5	21	-20	27	9	-10	-15	3	39
56-43.1594-106.3328-2-15-					0	W08779	-5	-5	-5	12	-20	-15	12	-10	-15	2	25
56-43.1603-106.3303-2-15-					0	W08780	-5	-5	-5	14	-20	-15	6	-10	-15	2	19
56-43.2225-106.2647-2-15-					0	W08783	-5	-5	-5	21	-20	-15	11	-10	-15	3	28

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.3944-	106.4836-	2-	15-	0-	W08703	69490	-0.06	679	96070	69	-68	9.0	109	5.2	3	1.1	15320	2.9	17830	40	0.4
56-	43.3894-	106.5458-	2-	15-	0-	W08705	59640	-0.05	910	25430	38	-53	4.5	41	3.1	3	0.8	10030	5.1	17550	26	0.3
56-	43.4100-	106.5489-	2-	11-	0-	W08706	54420	-0.03	592	51340	50	-60	4.3	31	2.7	3	0.8	7900	7.3	15200	28	0.3
56-	43.4314-	106.5797-	2-	11-	0-	W08714	39500	-0.04	868	28230	41	205	7.3	35	2.1	3	0.9	16800	7.3	13820	26	0.2
56-	43.4364-	106.6053-	2-	15-	0-	W08715	42610	-0.04	529	10890	54	20800	6.8	51	3.7	2	1.1	11460	6.6	14090	30	0.4
56-	43.4217-	106.5647-	2-	15-	0-	W08716	51540	-0.04	613	19500	41	-48	3.4	26	2.2	4	0.8	8361	7.2	16410	22	0.2
56-	43.3933-	106.5900-	2-	15-	0-	W08717	48930	-0.03	671	12730	50	71	3.9	31	2.5	4	0.8	8550	8.6	16800	29	0.3
56-	43.3847-	106.4461-	2-	15-	0-	W08720	47380	-0.04	783	21780	43	-52	7.0	53	3.1	4	1.0	14870	4.9	15660	27	0.3
56-	43.4017-	106.3458-	2-	15-	0-	W08722	62090	-0.05	696	21200	42	-50	5.2	38	3.3	4	0.7	10980	4.1	18460	27	0.4
56-	43.3903-	106.3147-	2-	15-	0-	W08723	63140	-0.04	727	30820	47	439	7.5	48	3.7	4	0.8	15520	4.4	16660	27	0.4
56-	43.3844-	106.2831-	2-	15-	0-	W08724	55640	-0.05	784	21210	59	-63	7.6	56	3.6	4	1.0	14950	7.5	13200	35	0.4
56-	43.4264-	106.2997-	2-	15-	0-	W08728	53550	-0.04	670	25540	55	1252	7.8	48	3.6	2	0.8	14990	5.0	17450	27	0.3
56-	43.4267-	106.3114-	2-	15-	0-	W08729	58800	-0.05	672	20360	36	354	5.9	34	3.1	4	0.6	13440	3.5	16430	21	0.2
56-	43.4550-	106.4117-	2-	15-	0-	W08730	40960	-0.03	1007	18430	38	-47	6.1	41	2.4	3	0.6	11660	5.8	13100	21	0.3
56-	43.4975-	106.4089-	2-	15-	0-	W08731	51150	-0.04	700	15070	55	131	6.5	47	3.2	3	0.9	12070	7.8	14960	32	0.3
56-	43.7544-	106.2717-	2-	15-	0-	W08732	48170	-0.04	549	10440	59	-51	7.0	47	2.9	3	0.9	11990	9.8	14410	30	0.4
56-	43.8189-	106.3392-	2-	15-	0-	W08737	47580	-0.04	520	5328	33	-39	4.8	34	2.4	4	0.7	8118	5.4	15850	20	0.2
56-	43.8278-	106.3511-	2-	15-	0-	W08738	39500	-0.03	515	6390	36	-39	4.3	28	2.4	3	0.6	7803	4.6	16140	20	0.3
56-	43.8322-	106.3264-	2-	15-	0-	W08739	49310	-0.04	542	7488	50	-46	6.3	40	3.2	4	0.8	11520	6.0	16350	28	0.2
56-	43.8514-	106.2711-	2-	15-	0-	W08740	45140	-0.04	518	7357	55	-53	6.4	41	2.5	3	0.9	10750	8.2	17160	27	0.4
56-	43.8911-	106.1858-	2-	15-	0-	W08743	42840	-0.04	639	8839	37	-38	4.2	32	1.5	4	0.8	8376	8.5	13700	24	0.2
56-	43.9133-	106.2386-	2-	15-	0-	W08744	42570	-0.03	709	9808	49	-42	4.6	40	2.0	4	0.7	9315	10.2	14870	25	0.4
56-	43.9219-	106.1842-	2-	15-	0-	W08745	51330	-0.03	552	16100	61	-50	6.0	37	3.8	4	0.9	13140	8.0	15800	33	0.4
56-	43.9786-	106.1833-	2-	15-	0-	W08748	45230	-0.04	491	11140	59	-48	6.6	39	3.3	3	1.0	11270	8.8	14490	30	0.4
56-	43.9747-	106.2222-	2-	15-	0-	W08749	53010	-0.05	562	13100	41	77	5.1	35	2.7	4	0.8	9693	5.1	14790	27	0.3
56-	43.9803-	106.2344-	2-	15-	0-	W08750	47200	-0.03	602	10370	50	-40	5.5	37	2.4	4	0.8	9938	8.3	14070	26	0.3
56-	43.9831-	106.2367-	2-	15-	0-	W08751	47610	-0.03	655	12090	54	72	6.0	40	2.9	4	1.0	11690	8.6	14140	31	0.4
56-	43.9933-	106.3156-	2-	15-	0-	W08753	38840	-0.04	454	13680	56	-46	6.0	43	2.2	3	0.8	10070	11.5	15110	30	0.4
56-	43.9947-	106.3264-	2-	15-	0-	W08754	40380	-0.04	527	14580	40	-38	4.4	28	1.9	3	0.7	7513	8.5	14400	21	0.2
56-	43.9989-	106.4025-	2-	15-	0-	W08756	58470	-0.03	584	21600	46	90	6.0	40	2.9	4	0.8	12470	5.3	17330	28	0.3
56-	43.9878-	106.4908-	2-	15-	0-	W08757	49030	-0.04	607	15670	45	-46	6.1	47	3.5	3	0.9	13220	7.1	15480	28	0.3
56-	43.9553-	106.3897-	2-	15-	0-	W08759	48690	-0.04	524	15120	57	-47	6.8	45	3.0	3	0.9	12920	8.6	15440	28	0.4
56-	43.9231-	106.3639-	2-	15-	0-	W08760	75380	-0.06	563	16701	55	-38	6.1	44	3.5	4	0.8	14050	3.2	19540	28	0.2
56-	43.9378-	106.3592-	2-	15-	0-	W08761	75460	-0.05	650	7195	78	-39	8.6	78	6.1	5	1.3	22840	5.1	17460	43	0.4
56-	43.9031-	106.3381-	2-	15-	0-	W08762	40050	-0.04	417	11430	42	511	5.6	27	1.9	3	0.6	7975	6.3	12640	25	0.3
56-	43.9089-	106.3261-	2-	15-	0-	W08763	46540	-0.05	857	8282	29	-50	4.2	27	1.9	2	0.6	8531	4.5	16270	21	0.2
56-	43.9456-	106.3328-	2-	15-	0-	W08764	46710	-0.03	721	3017	39	-41	4.7	35	2.3	3	0.7	10080	4.7	16210	21	0.2
56-	43.9072-	106.3061-	2-	15-	0-	W08765	45190	-0.04	728	5636	55	-36	5.9	51	3.7	3	1.0	12720	8.6	15930	30	0.4
56-	43.9369-	106.2886-	2-	15-	0-	W08766	50300	-0.04	572	3424	45	-44	5.8	40	2.5	4	0.8	9548	7.8	15430	24	0.3
56-	43.9056-	106.2733-	2-	15-	0-	W08767	48250	-0.04	550	3452	30	-47	4.0	29	2.5	3	0.7	8018	6.4	15980	20	0.3
56-	43.9547-	106.4269-	2-	15-	0-	W08768	44060	-0.03	556	6816	42	-38	4.4	34	2.2	3	0.8	9305	6.8	15760	23	0.3
56-	43.4542-	106.3736-	2-	15-	0-	W08771	47940	-0.04	826	30900	69	171	8.6	49	3.2	4	1.1	18260	7.4	14600	36	0.4
56-	43.4692-	106.3000-	2-	15-	0-	W08772	44400	-0.04	853	14980	44	66	7.0	47	3.2	4	0.9	12290	5.4	13000	24	0.3
56-	43.4781-	106.2778-	2-	15-	0-	W08773	47390	-0.04	553	12730	38	-68	4.3	22	-1.1	3	0.6	6719	5.0	16140	22	0.2
56-	43.4472-	106.2733-	2-	15-	0-	W08774	43420	-0.03	567	19870	50	-48	4.2	27	2.1	4	0.7	8271	7.3	14820	28	0.3
56-	43.4333-	106.2764-	2-	15-	0-	W08775	51750	-0.04	561	27260	65	1247	7.6	58	4.7	3	1.0	16580	5.2	16540	35	0.3
56-	43.3661-	106.2778-	2-	15-	0-	W08776	40210	-0.04	837	19940	48	-52	4.9	37	2.0	3	0.8	10190	6.9	11410	26	0.2
56-	43.3553-	106.2850-	2-	15-	0-	W08777	53700	-0.04	609	22550	40	-56	4.3	32	2.6	3	0.6	10030	4.1	13870	21	0.1
56-	43.1594-	106.3328-	2-	15-	0-	W08779	62830	-0.03	529	10810	57	-62	4.7	37	2.0	3	0.8	11290	4.7	15090	31	0.3
56-	43.1603-	106.3303-	2-	15-	0-	W08780	50450	-0.03	500	15290	90	82	5.1	45	2.5	4	1.1	13210	12.6	13050	46	0.5
56-	43.2225-	106.2647-	2-	15-	0-	W08783	56080	-0.05	555	57030	46	-69	6.2	38	3.4	4	0.8	10260	4.0	13940	25	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.3944-106.4836-2-15-				D-	W08703		16900	133	3686	45	3	9.2	5.7	-244	-1	-1	11.5	2951	345	3.2	-51	0.549
56-43.3894-106.5458-2-15-				D-	W08705		15080	173	6895	31	-1	5.1	3.2	-178	-1	-1	7.0	2598	109	1.9	-83	0.471
56-43.4100-106.5489-2-11-				D-	W08706		12590	130	8572	28	-1	4.3	3.8	332	-1	-1	8.4	2707	74	1.7	41	0.407
56-43.4314-106.5797-2-11-				D-	W08714		11920	393	10860	38	-1	4.9	3.2	-290	-1	-1	6.8	2486	87	2.4	77	0.457
56-43.4364-106.6053-2-15-				D-	W08715		8642	95	16540	52	-1	5.9	5.1	-311	-1	-1	9.4	2666	91	2.3	-36	0.333
56-43.4217-106.5647-2-15-				D-	W08716		13520	109	6196	-18	-1	4.5	2.3	176	-1	-1	5.9	2838	111	1.7	-29	0.593
56-43.3933-106.5900-2-15-				D-	W08717		9952	105	7492	42	-1	4.0	3.4	-148			8.5	2535	66	2.2	48	0.374
56-43.3847-106.4461-2-15-				D-	W08720		24160	212	5273	40	-1	6.8	3.4	-197	-1	-1	8.1	2911	126	2.1	89	0.328
56-43.4017-106.3458-2-15-				D-	W08722		23010	148	5533	45	-2	5.9	2.4	-175	-1	-1	6.7	3465	131	-1.3	-34	0.449
56-43.3903-106.3147-2-15-				D-	W08723		31410	325	8554	43	-1	7.6	3.5	334	-1	-1	7.8	3261	115	2.5	71	0.387
56-43.3844-106.2831-2-15-				D-	W08724		24670	208	5833	47	-1	7.9	4.5	-230	-1	-1	8.4	3446	121	3.0	-71	0.368
56-43.4264-106.2997-2-15-				D-	W08728		29910	232	9785	51	-1	6.9	4.0	-254	-1	-1	8.2	2472	108	2.8	83	0.344
56-43.4267-106.3114-2-15-				D-	W08729		26020	277	12560	-23	-2	6.2	1.8	-234	-1	-1	5.1	3441	112	2.2	-36	0.578
56-43.4550-106.4117-2-15-				D-	W08730		21300	205	5742	26	-1	4.7	3.0	-172			5.3	2648	100	1.9	75	0.464
56-43.4975-106.4089-2-15-				D-	W08731		14710	160	9576	42	-1	6.1	3.8	224	-1	-1	8.5	2879	96	2.9	81	0.372
56-43.7544-106.2717-2-15-				D-	W08732		13240	287	3578	42	-1	5.9	4.5	-220	-1	-1	8.7	2999	80	3.3	72	0.331
56-43.8189-106.3392-2-15-				D-	W08737		9877	210	3438	-18	-1	4.6	2.4	-166	-1	-1	6.3	3398	80	-1.2	-29	0.433
56-43.8278-106.3511-2-15-				D-	W08738		8092	206	3509	27	-1	3.9	2.8	-153			5.4	2428	59	1.9	45	0.415
56-43.8322-106.3264-2-15-				D-	W08739		12130	225	3754	42	-1	6.0	3.8	-194	-1	-1	7.6	3280	76	2.6	75	0.351
56-43.8514-106.2711-2-15-				D-	W08740		11530	228	4175	45	-1	5.7	4.3	-215	-1	-1	8.2	2840	76	2.3	69	0.322
56-43.8911-106.1858-2-15-				D-	W08743		10230	271	3503	31	-1	4.1	2.8	-173	-1	-1	7.1	2978	67	1.8	28	0.446
56-43.9133-106.2386-2-15-				D-	W08744		9607	278	3526	36	-1	4.7	3.6	-171	1		7.7	2838	66	2.7	44	0.423
56-43.9219-106.1842-2-15-				D-	W08745		15380	252	4404	47	-1	6.4	4.1	-201	-1	-1	9.4	2957	73	3.4	70	0.383
56-43.9786-106.1833-2-15-				D-	W08748		12800	234	3206	43	-1	5.8	5.1	-200	-1	-1	9.3	3036	74	3.1	90	0.356
56-43.9747-106.2222-2-15-				D-	W08749		13090	273	3214	30	-1	5.3	3.1	-185	-1	-1	6.6	3380	86	2.3	-38	0.576
56-43.9803-106.2344-2-15-				D-	W08750		13310	241	3368	42	-1	5.0	3.1	-164		-1	7.3	3292	70	2.4	73	0.447
56-43.9831-106.2367-2-15-				D-	W08751		11250	256	3508	38	-1	6.0	3.8	-196	-1	-1	9.3	2976	74	2.4	-38	0.397
56-43.9933-106.3156-2-15-				D-	W08753		10760	260	3156	31	-1	4.7	4.3	-202	-1	-1	7.8	2673	61	3.0	39	0.374
56-43.9947-106.3264-2-15-				D-	W08754		10950	264	3097	-17	-1	3.8	2.0	-169	-1	-1	5.4	2905	59	2.5	-27	0.524
56-43.9989-106.4025-2-15-				D-	W08756		20340	286	2651	37	-1	6.5	3.3	-179	-1	-1	8.5	3738	99	2.4	-58	0.372
56-43.9878-106.4908-2-15-				D-	W08757		12600	315	2703	41	-1	6.3	3.5	-215	-1	-1	7.5	2669	72	2.2	79	0.345
56-43.9553-106.3897-2-15-				D-	W08759		12660	309	2654	46	-1	6.0	4.1	-224	-1	-1	8.3	3344	78	2.6	68	0.302
56-43.9231-106.3639-2-15-				D-	W08760		16380	230	2398	41	-2	7.6	2.5	-186	-1	-1	6.6	3859	124	-1.7	-43	0.518
56-43.9378-106.3592-2-15-				D-	W08761		18730	242	2461	74	2	12.0	5.8	-186	-1	-1	12.7	4025	128	3.1	73	0.261
56-43.9031-106.3381-2-15-				D-	W08762		14630	232	24400	35	-1	3.9	4.2	-284	-1	-1	5.8	2913	56	2.3	-50	0.903
56-43.9089-106.3261-2-15-				D-	W08763		10630	332	2655	-24	-1	4.6	2.1	-242	-1	-1	4.9	2609	77	1.8	-38	0.533
56-43.9456-106.3328-2-15-				D-	W08764		11230	319	2672	35	-1	5.1	3.3	-199	-1	-1	6.2	3169	79	2.0	79	0.408
56-43.9072-106.3061-2-15-				D-	W08765		8308	232	2726	52	-1	6.6	4.2	-161	-1	-1	8.9	2620	74	2.8	74	0.276
56-43.9369-106.2885-2-15-				D-	W08766		11780	249	3378	28	-1	5.0	3.4	-194	-1	-1	7.5	3006	79	2.6	49	0.408
56-43.9056-106.2733-2-15-				D-	W08767		12200	242	3313	39	-1	4.3	2.6	-200	-1	-1	5.2	3332	75	1.8	-30	0.563
56-43.9547-106.4269-2-15-				D-	W08768		10140	231	3291	29	-1	4.8	2.9	-166	-1	-1	6.5	2936	68	2.6	70	0.382
56-43.4542-106.3736-2-15-				D-	W08771		30560	305	8130	50	-1	7.2	4.7	-209	-1	-1	8.8	2701	85	2.7	-24	0.313
56-43.4692-106.3000-2-15-				D-	W08772		17390	140	4736	21	-1	5.5	3.4	-179	-1	-1	6.3	2725	128	1.7	-50	0.411
56-43.4781-106.2778-2-15-				D-	W08773		19870	262	7785	-19	-1	3.4	2.0	-236	-1	-1	5.2	3102	44	-1.1	75	0.562
56-43.4472-106.2733-2-15-				D-	W08774		17230	279	5283	30	1	3.9	3.5	-182			7.2	2649	45	2.7	44	0.410
56-43.4333-106.2764-2-15-				D-	W08775		33230	199	10900	49	-1	8.1	4.6	-203	-1	-1	9.0	2899	108	2.7	-77	0.332
56-43.3661-106.2778-2-15-				D-	W08776		20430	131	6036	-14	-1	4.0	3.9	-175	-1	1	5.9	2149	86	2.2	78	0.412
56-43.3553-106.2850-2-15-				D-	W08777		24640	166	5822	-19	-1	5.2	2.0	-194	-1	-1	4.8	2585	119	2.1	-31	0.585
56-43.1594-106.3328-2-15-				D-	W08779		12190	267	10520	38	-1	5.2	3.4	207		-1	7.5	2916	56	2.0	49	0.327
56-43.1603-106.3303-2-15-				D-	W08780		13100	222	11870	35	-1	6.2	5.2	233	-1	-1	11.0	2886	57	3.5	52	0.248
56-43.2225-106.2647-2-15-				D-	W08783		21930	280	6037	34	-1	4.9	4.0	-259	-1	-1	8.7	2584	159	1.8	89	0.426

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.2206-106.2806-2-15-						0-W08784-08/21/77-15-	26-		-	-	-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.82
56-43.2267-106.2767-2-15-						0-W08785-08/21/77-15-	26-		-	-	-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.56
56-43.2128-106.3417-2-15-						0-W08788-08/21/77-16-	24-		-	-	-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.63
56-43.2422-106.3261-2-15-						0-W08790-08/21/77-16-	24-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.22
56-43.2692-106.2969-2-15-						0-W08792-08/21/77-17-	22-		-	-	-	-	-	-	-	23-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.19
56-43.3011-106.2689-2-15-						0-W08793-08/21/77-17-	22-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-43.3006-106.2575-2-15-						0-W08794-08/21/77-17-	22-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.22
56-43.2708-106.2814-2-15-						0-W08795-08/21/77-17-	22-		-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.53
56-43.2825-106.3722-2-15-						0-W08796-08/21/77-18-	21-		-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.64
56-43.2978-106.3292-2-15-						0-W08797-08/21/77-18-	-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.98
56-43.3222-106.3522-2-15-						0-W08798-08/21/77-18-	22-		-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.35
56-43.3333-106.2986-2-15-						0-W08799-08/21/77-18-	21-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.47
56-43.3361-106.3511-2-15-						0-W08800-08/21/77-19-	20-		-	-	-	-	-	-	-	16-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.82
56-43.3411-106.3281-2-15-						0-W08801-08/21/77-19-	20-		-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.98
56-43.3478-106.3297-2-15-						0-W08802-08/21/77-19-	20-		-	-	-	-	-	-	-	16-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.94
56-43.2508-107.1756-2-15-						0-W08803-08/22/77-12-	24-		-	-	-	-	-	-	-	2-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10
56-43.2519-107.2197-2-15-						0-W08804-08/22/77-12-	24-		-	-	-	-	-	-	-	4-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.69
56-43.2706-107.2275-2-15-						0-W08805-08/22/77-12-	24-		-	-	-	-	-	-	-	6-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.36
56-43.2714-107.2256-2-15-						0-W08806-08/22/77-12-	24-		-	-	-	-	-	-	-	9-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.25
56-43.2875-107.2147-2-15-						0-W08807-08/22/77-12-	24-		-	-	-	-	-	-	-	23-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.54
56-43.3269-107.2406-2-11-						0-W08808-08/22/77-13-	24-	14.0-	-	-	-	-	6.6-	2700-	18-1-7-4-4-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
56-43.3125-107.1822-2-11-						0-W08809-08/22/77-13-	24-	11.0-	-	-	-	-	6.6-	2500-	13-1-4-4-4-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.27
56-43.3128-107.1647-2-15-						0-W08810-08/22/77-13-	24-		-	-	-	-	-	-	-	4-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.52
56-43.3303-107.1769-2-15-						0-W08811-08/22/77-13-	24-		-	-	-	-	-	-	-	11-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.13
56-43.3394-107.1789-2-15-						0-W08812-08/22/77-14-	24-		-	-	-	-	-	-	-	13-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.15
56-43.3539-107.1667-2-15-						0-W08813-08/22/77-14-	24-		-	-	-	-	-	-	-	18-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.51
56-43.3603-107.1311-2-15-						0-W08814-08/22/77-14-	24-		-	-	-	-	-	-	-	11-1-4-4-4-	-	- - - - - - - -	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.43
56-43.3661-107.1281-2-15-						0-W08815-08/22/77-15-	24-		-	-	-	-	-	-	-	11-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.09
56-43.3689-107.0894-2-15-						0-W08816-08/22/77-15-	24-		-	-	-	-	-	-	-	20-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.22
56-43.3825-107.0700-2-15-						0-W08817-08/22/77-15-	24-		-	-	-	-	-	-	-	11-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.33
56-43.3875-107.0792-2-15-						0-W08818-08/22/77-15-	24-		-	-	-	-	-	-	-	13-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.61
56-43.3953-107.0606-2-15-						0-W08819-08/22/77-16-	24-		-	-	-	-	-	-	-	6-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-43.4056-107.0358-2-15-						0-W08820-08/22/77-16-	24-		-	-	-	-	-	-	-	6-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.22
56-43.4081-107.0347-2-15-						0-W08821-08/22/77-16-	23-		-	-	-	-	-	-	-	9-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.16
56-43.4203-107.0142-2-15-						0-W08822-08/22/77-16-	23-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.53
56-43.4211-107.0125-2-15-						0-W08823-08/22/77-16-	23-		-	-	-	-	-	-	-	11-1-4-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.67
56-43.4117-106.9861-2-15-						0-W08826-08/22/77-18-	20-		-	-	-	-	-	-	-	13-1-4-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.05
56-43.4467-106.9633-2-15-						0-W08827-08/22/77-18-	20-		-	-	-	-	-	-	-	11-1-7-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.44
56-43.4272-106.9531-2-15-						0-W08828-08/22/77-18-	20-		-	-	-	-	-	-	-	11-1-4-4-4-	-1-	-2-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.98
56-43.0647-106.6086-2-15-						0-W08830-08/23/77- 7-	19-		-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.99
56-43.0469-106.5436-2-15-						0-W08833-08/23/77- 8-	20-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.98
56-43.0329-106.5094-2-15-						0-W08834-08/23/77- 8-	20-		-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.09
56-43.0492-106.5197-2-15-						0-W08835-08/23/77- 8-	20-		-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.51
56-43.0639-106.5225-2-15-						0-W08836-08/23/77- 9-	21-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.69
56-43.0822-106.5389-2-15-						0-W08837-08/23/77- 9-	21-		-	-	-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.71
56-43.1072-106.5367-2-15-						0-W08838-08/23/77- 9-	22-		-	-	-	-	-	-	-	-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.74
56-43.0747-106.5647-2-15-						0-W08839-08/23/77- 9-	22-		-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45
56-43.0786-106.6222-2-15-						0-W08840-08/23/77-10-	22-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.08
56-43.0892-106.6175-2-15-						0-W08841-08/23/77-10-	23-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.04
56-43.1031-106.5881-2-15-						0-W08842-08/23/77-10-	23-		-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.91
56-43.1042-106.5969-2-15-						0-W08843-08/23/77-10-	23-		-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.2206-106.2806-2-15-						0-W08784	-5	-5	-5	12	-20	-15	9	-10	-15	2	26
56-43.2267-106.2767-2-15-						0-W08785	-5	-5	-5	10	-20	-15	-5	-10	-15	2	25
56-43.2128-106.3417-2-15-						0-W08788	-5	-5	-5	17	-20	-15	10	-10	-15	2	23
56-43.2422-106.3261-2-15-						0-W08790	-5	-5	-5	15	-20	-15	11	-10	-15	2	17
56-43.2692-106.2969-2-15-						0-W08792	-5	-5	-5	17	-20	-15	11	-10	-15	2	19
56-43.3011-106.2689-2-15-						0-W08793	-5	-5	-5	19	-20	15	15	-10	-15	2	23
56-43.3006-106.2575-2-15-						0-W08794	-5	-5	-5	21	-20	21	17	-10	-15	2	26
56-43.2708-106.2814-2-15-						0-W08795	-5	-5	-5	12	-20	18	5	-10	-15	2	21
56-43.2825-106.3722-2-15-						0-W08796	-5	5	-5	21	-20	-15	17	-10	-15	3	50
56-43.2978-106.3292-2-15-						0-W08797	-5	-5	-5	29	-20	15	13	-10	-15	2	42
56-43.3722-106.3522-2-15-						0-W08798	-5	5	-5	25	-20	15	8	-10	-15	3	63
56-43.3333-106.2986-2-15-						0-W08799	-5	-5	-5	23	-20	15	17	-10	-15	2	16
56-43.3361-106.3511-2-15-						0-W08800	-5	-5	-5	21	-20	18	17	-10	-15	3	35
56-43.3411-106.3281-2-15-						0-W08801	-5	-5	-5	19	-20	-15	11	-10	-15	3	45
56-43.3478-106.3297-2-15-						0-W08802	-5	-5	-5	32	-20	20	11	-10	-15	2	43
56-43.2508-107.1756-2-15-						0-W08803	-5	-5	-5	16	-20	-15	12	-10	-15	2	27
56-43.2519-107.2197-2-15-						0-W08804	-5	-5	-5	12	-20	-15	-5	-10	-15	2	22
56-43.2706-107.2275-2-15-						0-W08805	-5	-5	-5	30	-20	-15	6	-10	-15	2	82
56-43.2714-107.2256-2-15-						0-W08806	-5	-5	-5	17	-20	-15	6	-10	-15	2	37
56-43.2875-107.2147-2-15-						0-W08807	-5	-5	-5	20	-20	15	-5	-10	-15	2	80
56-43.3269-107.2406-2-11-						0-W08808	-5	-5	-5	28	-20	25	-5	-10	-15	2	78
56-43.3125-107.1822-2-11-						0-W08809	-5	-5	-5	27	-20	-15	-5	-10	-15	-1	36
56-43.3178-107.1647-2-15-						0-W08810	-5	-5	-5	25	-20	18	-5	-10	-15	2	49
56-43.3303-107.1769-2-15-						0-W08811	-5	-5	-5	15	-20	26	-5	-10	-15	2	76
56-43.3394-107.1789-2-15-						0-W08812	-5	-5	-5	18	-20	-15	15	-10	-15	2	44
56-43.3539-107.1667-2-15-						0-W08813	-5	-5	-5	-10	-20	-15	-5	-10	-15	-1	156
56-43.3603-107.1311-2-15-						0-W08814	-5	-5	-5	20	-20	-15	8	-10	-15	2	74
56-43.3661-107.1281-2-15-						0-W08815	-5	-5	-5	29	-20	-15	9	-10	-15	2	74
56-43.3689-107.0894-2-15-						0-W08816	-5	-5	-5	19	-20	-15	-5	-10	-15	2	27
56-43.3825-107.0700-2-15-						0-W08817	-5	-5	-5	24	-20	22	8	-10	-15	2	62
56-43.3875-107.0792-2-15-						0-W08818	-5	-5	-5	24	-20	-15	-5	-10	16	2	35
56-43.3953-107.0606-2-15-						0-W08819	-5	-5	-5	27	-20	-15	-5	-10	-15	2	41
56-43.4056-107.0358-2-15-						0-W08820	-5	-5	-5	26	-20	-15	-5	-10	-15	1	32
56-43.4081-107.0347-2-15-						0-W08821	-5	-5	-5	22	-20	-15	7	-10	-15	2	32
56-43.4203-107.0142-2-15-						0-W08822	-5	-5	-5	13	-20	-15	-5	-10	-15	1	11
56-43.4211-107.0125-2-15-						0-W08823	-5	5	-5	13	-20	-15	-5	-10	-15	-1	11
56-43.4117-106.9661-2-15-						0-W08826	-5	-5	-5	18	-20	-15	5	-10	-15	2	33
56-43.4467-106.9633-2-15-						0-W08827	-5	-5	-5	15	-20	-15	11	-10	-15	2	42
56-43.4272-106.9531-2-15-						0-W08828	-5	-5	-5	20	-20	-15	6	-10	-15	2	34
56-43.0647-106.6086-2-15-						0-W08830	-5	-5	-5	10	-20	-15	6	-10	-15	1	20
56-43.0469-106.5436-2-15-						0-W08833	-5	-5	-5	29	-20	21	10	-10	-15	2	48
56-43.0328-106.5094-2-15-						0-W08834	-5	-5	-5	16	-20	-15	-5	-10	-15	3	54
56-43.0492-106.5197-2-15-						0-W08835	-5	-5	-5	20	-20	-15	5	-10	-15	2	37
56-43.0639-106.5325-2-15-						0-W08836	-5	-5	-5	24	-20	32	10	-10	20	2	48
56-43.0822-106.5389-2-15-						0-W08837	-5	-5	-5	26	-20	-15	13	-10	-15	2	41
56-43.1072-106.5367-2-15-						0-W08838	-5	-5	-5	21	-20	-15	12	-10	-15	-1	94
56-43.0747-106.5647-2-15-						0-W08839	-5	-5	-5	24	-20	-15	9	-10	-15	2	37
56-43.0786-106.6222-2-15-						0-W08840	-5	-5	-5	20	-20	-15	9	-10	-15	2	49
56-43.0892-106.6175-2-15-						0-W08841	-5	-5	-5	28	-20	15	-5	-10	-15	3	59
56-43.1031-106.5881-2-15-						0-W08842	-5	-5	-5	23	-20	-15	11	-10	-15	3	50
56-43.1042-106.5969-2-15-						0-W08843	-5	-5	-5	29	-20	-15	10	-10	-15	3	66

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.2206-	106.2806-	2-	15-		0-W08784	49920	-0.04	562	14770	44	-72	3.6	23	-1.1	3	0.8	7845	6.9	14370	28	0.3
56-	43.2767-	106.2767-	2-	15-		0-W08785	49710	-0.03	512	14380	55	-59	3.6	35	1.8	4	0.8	8390	6.9	13430	30	0.3
56-	43.2128-	106.3417-	2-	15-		0-W08788	46330	-0.03	659	17940	79	-59	5.2	38	2.5	4	1.2	11610	11.2	13190	41	0.4
56-	43.2422-	106.3761-	2-	15-		0-W08790	46320	-0.03	569	17050	42	-61	5.0	26	2.0	3	0.7	7146	4.5	14950	25	0.2
56-	43.2692-	106.2969-	2-	15-		0-W08792	35430	-0.03	424	11600	37	-59	3.4	21	2.1	3	0.6	5103	8.0	13550	21	0.3
56-	43.3011-	106.2689-	2-	15-		0-W08793	44550	-0.03	488	13910	52	-55	4.0	32	2.2	4	0.7	8199	7.8	14830	27	0.3
56-	43.3006-	106.2575-	2-	15-		0-W08794	45060	-0.04	479	19390	78	129	6.2	47	3.2	4	1.1	11910	11.7	14380	39	0.4
56-	43.2708-	106.2814-	2-	15-		0-W08795	42780	-0.03	495	15110	43	-58	4.7	28	1.6	4	0.6	6599	6.4	13180	23	0.3
56-	43.2825-	106.3722-	2-	15-		0-W08796	52440	-0.04	504	32970	30	-64	5.0	28	2.5	3	0.6	8684	3.6	16110	20	0.2
56-	43.2978-	106.3292-	2-	15-		0-W08797	55780	-0.04	443	29990	46	-61	5.6	60	3.6	4	0.6	12490	5.2	14000	26	0.3
56-	43.3222-	106.3522-	2-	15-		0-W08798	66780	-0.06	770	20490	81	-61	9.7	83	7.2	4	1.4	22650	5.6	18970	39	0.4
56-	43.3333-	106.2986-	2-	15-		0-W08799	42530	-0.04	987	29790	59	-66	7.1	89	2.2	4	1.0	12610	13.5	13740	30	0.4
56-	43.3361-	106.3511-	2-	15-		0-W08800	61680	-0.05	589	20540	41	58	5.5	32	2.8	2	0.8	10970	4.1	16080	23	0.2
56-	43.3411-	106.3281-	2-	15-		0-W08801	51820	-0.04	675	27560	38	74	5.5	40	3.4	4	0.8	11830	4.9	14690	26	0.3
56-	43.3478-	106.3297-	2-	15-		0-W08802	68660	-0.05	637	20160	73	-62	9.0	70	5.4	4	1.1	22860	6.0	15920	32	0.4
56-	43.2508-	107.1756-	2-	15-		0-W08803	38250	-0.03	655	52790	36	-58	5.5	22	1.7	3	0.7	7536	5.8	12810	17	0.2
56-	43.2519-	107.2197-	2-	15-		0-W08804	33190	-0.04	387	45020	20	-63	3.3	-7	-0.9	2	0.5	5244	3.6	13450	11	0.2
56-	43.2706-	107.2275-	2-	15-		0-W08805	45280	-0.03	563	62790	36	-62	5.1	38	2.4	3	0.8	11590	5.7	17380	20	0.3
56-	43.2714-	107.2256-	2-	15-		0-W08806	41700	-0.03	1006	65990	53	-61	6.7	49	2.5	3	1.0	14470	7.5	15060	26	0.4
56-	43.2875-	107.2147-	2-	15-		0-W08807	44940	-0.04	419	77840	39	99	7.5	43	1.8	3	0.6	10430	4.9	16750	23	0.3
56-	43.3269-	107.2406-	2-	11-		0-W08808	44060	-0.05	-145	70970	31	-77	5.0	35	2.1	3	0.4	9083	3.8	14870	18	0.3
56-	43.3125-	107.1822-	2-	11-		0-W08809	36670	-0.03	398	85360	33	113	4.9	44	1.7	3	0.5	9013	5.0	14810	20	0.2
56-	43.3128-	107.1647-	2-	15-		0-W08810	38500	-0.04	327	89530	56	206	7.3	54	2.6	3	0.8	13430	7.4	13500	29	0.4
56-	43.3303-	107.1769-	2-	15-		0-W08811	43590	-0.04	373	70950	45	-72	6.7	37	2.5	3	0.8	10590	6.2	16950	23	0.3
56-	43.3394-	107.1789-	2-	15-		0-W08812	44340	-0.04	287	49230	28	-79	5.1	28	-1.1	3	0.5	9079	5.1	14070	17	0.2
56-	43.3539-	107.1667-	2-	15-		0-W08813	37660	-0.03	401	65940	37	-48	4.6	59	1.7	3	0.7	9112	7.0	15820	21	0.3
56-	43.3603-	107.1311-	2-	15-		0-W08814	38860	-0.04	388	69310	60	-45	6.8	65	2.8	4	0.8	12280	10.8	20380	30	0.4
56-	43.3661-	107.1281-	2-	15-		0-W08815	47560	-0.04	343	66500	48	-72	7.6	41	2.3	3	0.8	12070	5.2	17870	21	0.3
56-	43.3689-	107.0894-	2-	15-		0-W08816	36130	-0.04	317	42740	21	-65	3.2	25	-0.9	3	0.6	5990	9.1	17420	14	0.2
56-	43.3825-	107.0700-	2-	15-		0-W08817	43040	-0.03	468	48390	38	-56	5.9	38	2.2	4	0.7	10240	6.3	20220	23	0.3
56-	43.3875-	107.0792-	2-	15-		0-W08818	41700	-0.04	431	41390	61	-54	7.1	53	3.3	4	1.0	14100	14.2	18480	33	0.5
56-	43.3953-	107.0606-	2-	15-		0-W08819	40260	-0.03	393	45780	40	-59	5.9	35	1.9	3	0.7	9339	9.7	17050	21	0.3
56-	43.4056-	107.0358-	2-	15-		0-W08820	37120	-0.04	351	45510	27	-59	4.5	23	-1.0	2	0.5	6898	5.3	15530	15	0.2
56-	43.4081-	107.0347-	2-	15-		0-W08821	33470	-0.03	411	39260	33	-44	3.9	29	1.6	3	0.6	7284	6.8	14480	18	0.2
56-	43.4203-	107.0142-	2-	15-		0-W08822	21180	-0.03	283	12620	22	53	3.4	25	1.7	1	0.5	4949	7.5	11370	13	0.2
56-	43.4211-	107.0125-	2-	15-		0-W08823	20940	-0.03	248	12910	18	-29	3.3	20	0.8	1	0.3	3195	6.8	11980	11	0.2
56-	43.4117-	106.9661-	2-	15-		0-W08826	41280	-0.04	287	44050	27	-63	3.7	22	-1.0	3	0.5	6193	5.3	14670	13	0.2
56-	43.4467-	106.9633-	2-	15-		0-W08827	37370	-0.03	360	50000	36	-43	4.8	38	2.3	3	0.6	8873	7.2	18470	18	0.3
56-	43.4272-	106.9531-	2-	15-		0-W08828	43690	-0.03	373	48420	45	-54	5.8	41	2.6	3	0.7	11640	8.2	15830	25	0.3
56-	43.0647-	106.6086-	2-	15-		0-W08830	34240	-0.03	533	16920	32	-52	3.6	17	1.1	3	0.6	4420	5.6	12340	20	0.2
56-	43.0469-	106.5436-	2-	15-		0-W08833	49940	-0.05	527	18600	39	-63	4.6	31	2.7	4	0.6	9229	5.6	16230	23	0.2
56-	43.0328-	106.5094-	2-	15-		0-W08834	50090	-0.03	654	20180	56	-51	5.1	46	2.6	4	0.9	11200	7.2	15600	30	0.3
56-	43.0492-	106.5197-	2-	15-		0-W08835	59310	-0.04	618	18770	59	-56	7.4	65	4.4	4	1.0	19110	5.8	16640	33	0.4
56-	43.0639-	106.5325-	2-	15-		0-W08836	56200	-0.04	654	20700	51	-61	6.6	41	2.6	4	0.9	11690	4.1	17420	23	0.3
56-	43.0822-	106.5389-	2-	15-		0-W08837	52180	-0.04	543	23200	31	83	4.6	30	2.5	3	0.7	9017	4.6	14320	16	0.2
56-	43.1072-	106.5367-	2-	15-		0-W08838	51840	-0.03	612	21310	42	37	5.7	40	2.6	3	0.7	11640	5.1	15370	26	0.3
56-	43.0747-	106.5647-	2-	15-		0-W08839	43860	-0.04	711	12000	60	-46	6.0	53	3.0	3	0.9	12780	8.8	14920	29	0.4
56-	43.0786-	106.6222-	2-	15-		0-W08840	55600	-0.05	832	17200	51	-57	7.2	48	3.5	4	0.9	12320	5.7	15880	27	0.3
56-	43.0992-	106.6175-	2-	15-		0-W08841	53970	-0.05	779	16100	36	-61	5.0	44	3.3	3	0.7	9959	4.4	14620	22	0.2
56-	43.1031-	106.5881-	2-	15-		0-W08842	58900	-0.04	770	18020	49	-50	5.8	50	3.9	4	0.8	14400	5.4	16420	28	0.4
56-	43.1042-	106.5969-	2-	15-		0-W08843	59790	-0.05	829	16780	71	85	8.8	71	5.3	4	1.1	19010	6.8	16350	35	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	43.2206-	106.2806-	2-	15-	0-	W08784	11510	258	10300	-18	-1	3.6	2.3	-236	-1	-1	5.5	3290	51	2.0	-29	0.513
56-	43.2767-	106.2767-	2-	15-	0-	W08785	11110	205	11150	22	-1	3.9	3.8	403	-1		6.9	2712	48	2.4	-18	0.371
56-	43.2128-	106.3417-	2-	15-	0-	W08788	11890	247	9986	45	-1	5.2	5.4	338	-1	-1	9.7	2534	39	3.0	67	0.271
56-	43.2422-	106.3261-	2-	15-	0-	W08790	10680	160	10500	33	-1	3.5	3.2	250	-1	-1	6.4	2203	49	2.2	50	0.347
56-	43.2692-	106.2969-	2-	15-	0-	W08792	10560	234	7471	23	-1	2.9	2.1	-205	-1	-1	4.9	2888	30	2.5	-27	0.651
56-	43.3011-	106.2689-	2-	15-	0-	W08793	14620	241	8210	28	-1	4.1	3.6	-185		-1	7.4	2773	46	2.5	47	0.392
56-	43.3006-	106.2575-	2-	15-	0-	W08794	14310	274	10930	42	2	6.5	5.4	-203	1	1	11.6	2773	46	3.9	70	0.278
56-	43.2708-	106.2814-	2-	15-	0-	W08795	12880	211	8596	37	-1	3.3	3.9	-196	-1		6.2	2132	34	2.2	-31	0.408
56-	43.2825-	106.3722-	2-	15-	0-	W08796	33530	224	6965	-21	-1	4.5	2.0	-230	-1	-1	5.2	2608	81	-1.1	-32	0.508
56-	43.2978-	106.3292-	2-	15-	0-	W08797	29600	261	8233	38	-1	6.1	3.6	-209	-1	-1	7.4	3126	74	2.4	-37	0.403
56-	43.3222-	106.3522-	2-	15-	0-	W08798	29990	188	5903	66	-2	12.0	5.4	-213	-1	-1	12.0	3718	164	4.2	99	0.279
56-	43.3333-	106.2986-	2-	15-	0-	W08799	23480	395	8235	33	-1	4.6	4.1	-246	-1	-1	7.2	3413	57	2.9	33	0.482
56-	43.3361-	106.3511-	2-	15-	0-	W08800	26120	329	7494	38	-2	5.8	2.2	-273	-1	-1	5.9	3169	88	-1.3	-40	0.478
56-	43.3411-	106.3281-	2-	15-	0-	W08801	30770	204	6934	47	-1	5.8	3.7	-187	-1	-1	6.6	3089	107	2.6	-18	0.452
56-	43.3478-	106.3297-	2-	15-	0-	W08802	27790	357	6821	70	-2	11.3	5.1	-240	-1	-1	10.9	3335	110	2.9	107	0.270
56-	43.2508-	107.1756-	2-	15-	0-	W08803	18380	330	5987	27	-1	3.9	2.6	-222	-1	-1	4.2	2316	44	1.8	56	0.500
56-	43.2519-	107.2197-	2-	15-	0-	W08804	17210	274	6860	-16	-1	2.8	1.3	-223	-1	-1	2.7	1679	31	1.3	-30	0.626
56-	43.2706-	107.2275-	2-	15-	0-	W08805	32890	469	7903	31	-1	6.0	3.2	-233	-1	-1	5.7	3011	57	2.1	50	0.414
56-	43.2714-	107.2256-	2-	15-	0-	W08806	35140	464	7423	39	-1	7.6	4.1	442	-1	-1	7.2	3220	48	2.8	53	0.313
56-	43.2875-	107.2147-	2-	15-	0-	W08807	51690	402	6439	-17	-1	5.5	3.7	530	-1	-1	5.2	3021	52	2.0	-39	0.488
56-	43.3269-	107.2406-	2-	11-	0-	W08808	48610	362	6799	-21	-2	4.6	1.8	601	-1	-1	4.1	3022	47	1.9	100	0.659
56-	43.3125-	107.1822-	2-	11-	0-	W08809	47870	351	5885	-13	-1	4.6	2.7	325	-1	-1	5.9	2602	44	1.6	51	0.385
56-	43.3128-	107.1647-	2-	15-	0-	W08810	47260	368	8813	-16	-1	6.9	4.3	473	-1	-1	6.9	2410	46	2.6	67	0.365
56-	43.3303-	107.1769-	2-	15-	0-	W08811	48580	562	7239	35	-1	5.6	4.1	-286	-1	-1	6.0	2870	46	2.6	40	0.355
56-	43.3394-	107.1789-	2-	15-	0-	W08812	24630	419	9667	-19	-1	4.8	2.2	-275	-1	-1	4.8	3068	51	2.1	-31	0.448
56-	43.3539-	107.1667-	2-	15-	0-	W08813	42870	302	3996	29	-1	4.4	3.2	216		-1	6.5	2713	47	2.0	66	0.386
56-	43.3603-	107.1311-	2-	15-	0-	W08814	48790	348	2803	39	-1	6.9	4.7	-195	-1	-1	9.1	3080	46	3.6	49	0.267
56-	43.3661-	107.1281-	2-	15-	0-	W08815	44280	563	7048	26	-1	6.3	3.8	-286	-1	-1	6.3	3303	55	2.6	-25	0.332
56-	43.3689-	107.0894-	2-	15-	0-	W08816	20090	297	7736	26	-1	3.1	1.8	-224	-1	-1	4.0	2693	35	-0.9	-25	0.555
56-	43.3825-	107.0700-	2-	15-	0-	W08817	33110	402	6364	52	-1	5.2	3.1	-220		-1	6.2	2908	52	2.3	65	0.376
56-	43.3875-	107.0792-	2-	15-	0-	W08818	31770	366	5548	37	-1	7.0	4.4	-207	-1	-1	9.8	2609	47	3.4	-50	0.266
56-	43.3953-	107.0606-	2-	15-	0-	W08819	29080	365	6238	30	-1	4.5	3.6	-227	-1	-1	5.7	2745	48	2.2	77	0.421
56-	43.4056-	107.0358-	2-	15-	0-	W08820	28970	306	4979	-16	-1	3.5	1.4	-224	-1	-1	4.1	2340	43	1.2	-29	0.541
56-	43.4081-	107.0347-	2-	15-	0-	W08821	29200	279	4444	26	-1	3.7	2.3	-171			4.9	2070	37	1.8	-17	0.441
56-	43.4203-	107.0142-	2-	15-	0-	W08822	10410	108	1628	22	-1	2.8	1.7	149			3.5	1031	20	1.3	-38	0.437
56-	43.4211-	107.0125-	2-	15-	0-	W08823	11280	109	1616	10	-1	1.9	1.2	-124	-1		2.5	1235	22	1.0	-17	0.668
56-	43.4117-	106.9661-	2-	15-	0-	W08826	21630	283	7253	-17	-1	3.6	1.7	-221	-1	-1	3.8	2691	40	1.2	-28	0.539
56-	43.4467-	106.9633-	2-	15-	0-	W08827	30020	285	3056	42	-1	4.5	2.6	-180		-1	5.4	2533	47	2.1	-40	0.452
56-	43.4272-	106.9531-	2-	15-	0-	W08828	24840	289	7406	53	-1	6.4	3.5	-186	-1		6.3	2865	45	2.7	-55	0.314
56-	43.0647-	106.6086-	2-	15-	0-	W08830	8663	138	8075	20	-1	2.2	2.4	-163			4.9	1574	46	1.5	28	0.406
56-	43.0469-	106.5436-	2-	15-	0-	W08833	20070	254	6669	-20	-1	4.5	2.2	-225	-1	-1	5.4	3105	92	-1.4	105	0.552
56-	43.0328-	106.5094-	2-	15-	0-	W08834	16130	258	6679	30	-1	5.5	3.5	-188	-1	-1	8.8	3204	91	2.4	105	0.351
56-	43.0492-	106.5197-	2-	15-	0-	W08835	21410	304	7666	65	-1	8.9	4.9	224	-1	-1	10.7	3079	89	3.0	100	0.235
56-	43.0639-	106.5325-	2-	15-	0-	W08836	23780	273	7085	40	-1	6.0	3.4	-219	-1	-1	7.0	3214	91	2.2	-72	0.384
56-	43.0822-	106.5389-	2-	15-	0-	W08837	23020	266	7013	-19	-1	4.6	2.4	-228	-1	-1	5.2	3020	92	-1.0	-24	0.521
56-	43.1072-	106.5367-	2-	15-	0-	W08838	24970	269	6958	36	-1	5.7	3.2	-194		-1	6.6	3083	91	2.3	63	0.415
56-	43.0747-	106.5647-	2-	15-	0-	W08839	13270	150	6291	39	-1	6.3	4.6	-153	-1	-1	9.3	2767	91	2.6	59	0.263
56-	43.0786-	106.6222-	2-	15-	0-	W08840	23230	187	5469	41	-1	6.0	4.2	-210	-1	-1	7.1	3257	133	2.2	83	0.434
56-	43.0892-	106.6175-	2-	15-	0-	W08841	19350	187	5428	-22	-2	5.2	2.2	-218	-1	-1	5.5	2867	132	-1.2	-71	0.553
56-	43.1031-	106.5881-	2-	15-	0-	W08842	21740	207	4608	41	-1	7.1	3.5	-192	-1	-1	7.1	3795	152	2.4	73	0.410
56-	43.1042-	106.5969-	2-	15-	0-	W08843	19220	240	5426	66	-1	9.8	5.6	-190	-1	-1	10.8	3486	146	2.7	79	0.269

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.1369-	106.5861-	2-15-				0-W08845-	08/23/77-	11-	23-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.71
56-43.1333-	106.5161-	2-15-				0-W08846-	08/23/77-	11-	23-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.75
56-43.1339-	106.5083-	2-15-				0-W08847-	08/23/77-	11-	23-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.71
56-43.1442-	106.5458-	2-15-				0-W08848-	08/23/77-	12-	23-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.53
56-43.1656-	106.5594-	2-15-				0-W08849-	08/23/77-	12-	23-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.63
56-43.1650-	106.5572-	2-15-				0-W08850-	08/23/77-	13-	23-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.55
56-43.1975-	106.5847-	2-15-				0-W08851-	08/23/77-	13-	23-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.26
56-43.2169-	106.5694-	2-15-				0-W08852-	08/23/77-	13-	23-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.98
56-43.2253-	106.5722-	2-15-				0-W08853-	08/23/77-	14-	22-		-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.69
56-43.2353-	106.6192-	2-15-				0-W08854-	08/23/77-	14-	22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.69
56-43.2708-	106.6392-	2-15-				0-W08855-	08/23/77-	15-	22-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.17
56-43.2653-	106.6556-	2-15-				0-W08856-	08/23/77-	15-	22-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.46
56-43.2506-	106.6783-	2-15-				0-W08857-	08/23/77-	16-	20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.49
56-43.2503-	106.6833-	2-15-				0-W08858-	08/23/77-	16-	20-		-	-	-	-	-	16-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.08
56-43.2300-	107.2433-	2-15-				0-W08860-	08/24/77-	8-	18-		-	-	-	-	-	11-1-7-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.71
56-43.1917-	107.2539-	2-15-				0-W08861-	08/24/77-	8-	18-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.02
56-43.1703-	107.2939-	2-15-				0-W08863-	08/24/77-	9-	20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
56-43.1742-	107.3164-	2-15-				0-W08864-	08/24/77-	9-	20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.39
56-43.1306-	107.3833-	2-15-				0-W08867-	08/24/77-	9-	20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.34
56-43.1125-	107.4325-	2-15-				0-W08868-	08/24/77-	10-	-		-	-	-	-	-	-1-7- - -	-1-	- -3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.39
56-43.0406-	107.4364-	2-15-				0-W08873-	08/24/77-	12-	23-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.27
56-43.0306-	107.4417-	2-15-				0-W08874-	08/24/77-	12-	23-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.23
56-43.0850-	107.4806-	2-15-				0-W08876-	08/24/77-	13-	23-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.99
56-43.1369-	107.4797-	2-15-				0-W08881-	08/24/77-	14-	22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.36
56-43.1711-	107.4492-	2-15-				0-W08883-	08/24/77-	14-	23-		-	-	-	-	-	11-1-7-3-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.82
56-43.0783-	107.3103-	2-15-				0-W08884-	08/24/77-	15-	21-		-	-	-	-	-	20-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.35
56-43.0275-	107.3675-	2-15-				0-W08885-	08/24/77-	15-	21-		-	-	-	-	-	18-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.32
56-43.0400-	107.3617-	2-15-				0-W08886-	08/24/77-	15-	21-		-	-	-	-	-	25-1-7-6-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.24
56-43.0631-	107.3211-	2-15-				0-W08887-	08/24/77-	16-	20-		-	-	-	-	-	20-1-7-6-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.01
56-43.0911-	107.3461-	2-15-				0-W08888-	08/24/77-	16-	19-		-	-	-	-	-	25-1-7-6-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.88
56-43.0678-	107.2075-	2-15-				0-W08890-	08/25/77-	6-	15-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.38
56-43.0594-	107.2156-	2-15-				0-W08891-	08/25/77-	6-	15-		-	-	-	-	-	16-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.58
56-43.1422-	107.2017-	2-15-				0-W08895-	08/25/77-	7-	16-		-	-	-	-	-	18-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.07
56-43.1611-	107.1639-	2-15-				0-W08896-	08/25/77-	8-	17-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.79
56-43.1522-	107.1422-	2-15-				0-W08897-	08/25/77-	8-	17-		-	-	-	-	-	18-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.69
56-43.1464-	107.1353-	2-15-				0-W08898-	08/25/77-	8-	17-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.87
56-43.1289-	107.1317-	2-15-				0-W08899-	08/25/77-	8-	17-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.65
56-43.1147-	107.1264-	2-15-				0-W08900-	08/25/77-	9-	18-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.84
56-43.0411-	107.2150-	2-15-				0-W08902-	08/25/77-	9-	18-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.42
56-43.0014-	107.2942-	2-15-				0-W08903-	08/25/77-	10-	18-		-	-	-	-	-	20-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.79
56-43.0106-	107.3442-	2-15-				0-W08905-	08/25/77-	11-	18-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.29
56-43.0222-	107.2900-	2-15-				0-W08907-	08/25/77-	11-	18-		-	-	-	-	-	-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.99
56-43.0172-	107.1819-	2-15-				0-W08908-	08/25/77-	12-	16-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.12
56-43.0272-	107.1722-	2-15-				0-W08909-	08/25/77-	12-	16-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.98
56-43.0672-	107.1256-	2-15-				0-W08910-	08/25/77-	12-	16-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.01
56-43.0406-	107.1533-	2-15-				0-W08911-	08/25/77-	12-	16-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.01
56-43.1214-	107.2542-	2-15-				0-W08912-	08/25/77-	13-	16-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.99
56-43.2131-	107.0369-	2-15-				0-W08913-	08/29/77-	14-	23-		-	-	-	-	-	25-1-7-3-7-	-1-	- -3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.05
56-43.2053-	107.0214-	2-15-				0-W08914-	08/29/77-	14-	23-		-	-	-	-	-	18-1-7- - -	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.63
56-43.1917-	107.0139-	2-15-				0-W08915-	08/29/77-	14-	23-		-	-	-	-	-	23-1-7- - -	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.74
56-43.1622-	107.0467-	2-15-				0-W08919-	08/29/77-	16-	21-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.07

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.1369-106.5861-2-15-						0-W08845	-5	-5	-5	11	-20	-15	13	-10	-15	2	48
56-43.1333-106.5161-2-15-						0-W08846	-5	-5	-5	19	-20	-15	13	-10	-15	2	46
56-43.1339-106.5083-2-15-						0-W08847	-5	-5	-5	15	-20	24	9	-10	-15	2	41
56-43.1442-106.5458-2-15-						0-W08848	-5	-5	-5	22	-20	-15	7	-10	-15	3	52
56-43.1656-106.5594-2-15-						0-W08849	-5	-5	-5	18	-20	-15	-5	-10	-15	2	43
56-43.1650-106.5572-2-15-						0-W08850	-5	-5	-5	16	-20	16	7	-10	-15	2	54
56-43.1975-106.5847-2-15-						0-W08851	-5	-5	-5	16	-20	-15	9	-10	-15	3	50
56-43.2169-106.5694-2-15-						0-W08852	-5	-5	-5	22	-20	16	10	-10	-15	3	52
56-43.2253-106.5722-2-15-						0-W08853	-5	-5	-5	20	-20	-15	-5	-10	-15	2	43
56-43.2353-106.6192-2-15-						0-W08854	-5	-5	-5	18	-20	-15	6	-10	-15	3	59
56-43.2708-106.6392-2-15-						0-W08855	-5	-5	-5	15	-20	-15	7	-10	-15	3	37
56-43.2653-106.6556-2-15-						0-W08856	-5	-5	-5	13	-20	-15	9	-10	-15	3	36
56-43.2506-106.6783-2-15-						0-W08857	-5	6	-5	20	-20	18	-5	-10	-15	3	53
56-43.2503-106.6833-2-15-						0-W08858	-5	-5	-5	12	-20	17	-5	-10	-15	2	39
56-43.2300-107.2433-2-15-						0-W08860	-5	-5	-5	27	-20	-15	5	-10	-15	2	30
56-43.1917-107.2539-2-15-						0-W08861	-5	-5	-5	23	-20	-15	6	-10	-15	3	59
56-43.1703-107.2939-2-15-						0-W08863	-5	-5	-5	44	-20	-15	8	-10	-15	2	35
56-43.1742-107.3164-2-15-						0-W08864	-5	-5	-5	18	-20	15	11	-10	-15	2	41
56-43.1306-107.3833-2-15-						0-W08867	-5	-5	-5	19	-20	-15	10	-10	-15	2	34
56-43.1125-107.4325-2-15-						0-W08868	-5	-5	-5	21	-20	17	9	-10	-15	3	46
56-43.0406-107.4364-2-15-						0-W08873	-5	-5	-5	25	-20	18	20	-10	-15	3	51
56-43.0306-107.4417-2-15-						0-W08874	-5	6	-5	21	-20	21	14	-10	-15	3	50
56-43.0850-107.4806-2-15-						0-W08876	-5	-5	-5	33	-20	-15	14	-10	-15	3	47
56-43.1369-107.4797-2-15-						0-W08881	-5	5	-5	14	-20	-15	5	-10	-15	2	28
56-43.1711-107.4492-2-15-						0-W08883	-5	-5	-5	24	-20	25	13	-10	-15	2	41
56-43.0783-107.3103-2-15-						0-W08884	-5	-5	-5	22	-20	19	26	-10	-15	2	34
56-43.0275-107.3675-2-15-						0-W08885	-5	-5	-5	-10	-20	-15	9	-10	-15	2	33
56-43.0400-107.3617-2-15-						0-W08886	-5	-5	-5	15	-20	15	8	-10	-15	2	21
56-43.0631-107.3211-2-15-						0-W08887	-5	-5	-5	20	-20	-15	21	-10	-15	2	25
56-43.0911-107.3461-2-15-						0-W08888	-5	-5	-5	25	-20	-15	27	-10	-15	3	38
56-43.0678-107.2075-2-15-						0-W08890	-5	-5	-5	29	-20	-15	18	-10	-15	2	45
56-43.0594-107.2156-2-15-						0-W08891	-5	-5	-5	24	-20	-15	15	-10	-15	2	31
56-43.1422-107.2017-2-15-						0-W08895	-5	-5	-5	28	-20	19	6	-10	-15	3	38
56-43.1611-107.1639-2-15-						0-W08896	-5	-5	-5	15	-20	-15	-5	-10	-15	2	19
56-43.1522-107.1422-2-15-						0-W08897	-5	-5	-5	16	-20	-15	9	-10	-15	2	20
56-43.1464-107.1353-2-15-						0-W08898	-5	-5	-5	22	-20	-15	8	-10	-15	2	25
56-43.1289-107.1317-2-15-						0-W08899	-5	-5	-5	21	-20	-15	9	-10	-15	2	25
56-43.1147-107.1264-2-15-						0-W08900	-5	-5	-5	30	-20	17	15	-10	-15	3	36
56-43.0411-107.2150-2-15-						0-W08902	-5	-5	-5	19	-20	41	18	-10	-15	2	36
56-43.0014-107.2942-2-15-						0-W08903	-5	-5	-5	22	-20	-15	17	-10	-15	2	30
56-43.0106-107.3442-2-15-						0-W08905	-5	-5	-5	24	-20	30	22	-10	-15	2	34
56-43.0222-107.2900-2-15-						0-W08907	-5	-5	-5	19	-20	-15	19	-10	-15	3	33
56-43.0172-107.1819-2-15-						0-W08908	-5	-5	-5	24	-20	15	12	-10	-15	2	43
56-43.0272-107.1722-2-15-						0-W08909	-5	-5	-5	15	-20	16	16	-10	-15	2	35
56-43.0672-107.1256-2-15-						0-W08910	-5	-5	-5	18	-20	52	13	-10	-15	3	38
56-43.0406-107.1533-2-15-						0-W08911	-5	-5	-5	21	-20	52	6	-10	-15	2	48
56-43.1214-107.2542-2-15-						0-W08912	-5	-5	-5	14	-20	21	17	-10	-15	2	32
56-43.2131-107.0369-2-15-						0-W08913	-5	-5	-5	21	-20	-15	21	-10	-15	3	28
56-43.2053-107.0214-2-15-						0-W08914	-5	-5	-5	-10	-20	-15	7	-10	-15	2	33
56-43.1917-107.0139-2-15-						0-W08915	-5	-5	-5	13	-20	15	16	-10	-15	3	48
56-43.1622-107.0467-2-15-						0-W08919	-5	-5	-5	46	-20	27	19	-10	-15	2	19

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.1369-	106.5861-	2-	15-	0-	W08845	47430	-0.04	716	24920	39	-55	5.9	41	2.1	3	0.7	9454	5.1	12130	23	0.3
56-	43.1333-	106.5161-	2-	15-	0-	W08846	57420	-0.05	510	19200	36	-65	4.9	38	2.7	3	0.7	9785	4.1	16180	22	0.2
56-	43.1339-	106.5083-	2-	15-	0-	W08847	54790	-0.04	622	16940	45	-52	5.4	44	2.7	4	0.7	11630	5.0	16000	25	0.2
56-	43.1442-	106.5458-	2-	15-	0-	W08848	47640	-0.04	690	17250	54	94	6.4	62	3.8	3	0.9	14260	6.2	16980	30	0.4
56-	43.1656-	106.5594-	2-	15-	0-	W08849	47860	-0.04	720	18870	46	-52	5.9	39	2.1	3	0.7	9890	4.4	14430	22	0.2
56-	43.1650-	106.5572-	2-	15-	0-	W08850	47110	-0.04	530	18400	31	88	4.0	31	2.3	3	0.7	8767	3.7	15750	19	0.3
56-	43.1975-	106.5847-	2-	15-	0-	W08851	63780	-0.05	762	14690	52	-55	6.8	48	4.1	4	0.8	13990	4.4	17000	30	0.3
56-	43.2169-	106.5694-	2-	15-	0-	W08852	62410	-0.05	890	16440	75	-53	8.3	74	5.5	4	1.1	18730	6.2	18720	42	0.4
56-	43.2253-	106.5722-	2-	15-	0-	W08853	47990	-0.04	616	23560	42	212	5.7	39	2.5	3	0.8	9479	4.5	13500	22	0.2
56-	43.2353-	106.6192-	2-	15-	0-	W08854	48190	-0.05	684	16850	32	-52	4.3	43	2.8	3	0.7	10420	4.0	14240	19	0.2
56-	43.2708-	106.6392-	2-	15-	0-	W08855	41520	-0.03	720	18920	51	84	4.5	53	2.4	4	0.7	9695	9.7	12700	27	0.3
56-	43.2653-	106.6556-	2-	15-	0-	W08856	42770	-0.03	682	20510	60	-44	5.7	55	3.3	4	0.9	13310	8.2	12790	30	0.4
56-	43.2506-	106.6783-	2-	15-	0-	W08857	47970	-0.04	732	19280	48	-48	6.6	43	2.3	4	0.9	10940	4.9	15500	23	0.2
56-	43.2503-	106.6833-	2-	15-	0-	W08858	44430	-0.05	679	16720	36	-57	4.7	41	1.9	4	0.7	8833	6.6	12020	21	0.3
56-	43.2300-	107.2433-	2-	15-	0-	W08860	36260	-0.03	466	40580	38	-54	3.7	27	1.6	3	0.7	7323	9.6	13430	19	0.3
56-	43.1917-	107.2539-	2-	15-	0-	W08861	46670	-0.04	409	41780	65	-56	7.4	51	2.9	4	1.0	15470	8.4	16240	34	0.4
56-	43.1703-	107.2939-	2-	15-	0-	W08863	59840	-0.04	555	17540	62	86	7.1	47	2.9	5	0.9	11930	6.0	17810	38	0.3
56-	43.1742-	107.3164-	2-	15-	0-	W08864	55470	-0.05	447	9454	36	-75	5.0	37	2.4	3	0.7	9766	4.8	17830	25	0.3
56-	43.1306-	107.3833-	2-	15-	0-	W08867	53770	-0.03	728	22650	56	117	5.7	34	2.8	4	0.8	10580	6.0	14870	34	0.3
56-	43.1125-	107.4325-	2-	15-	0-	W08868	68130	-0.05	630	11540	89	-70	9.2	75	4.2	5	1.1	20830	7.8	20370	52	0.4
56-	43.0406-	107.4364-	2-	15-	0-	W08873	69720	-0.04	467	13290	66	-77	7.8	49	3.1	4	0.8	13470	4.5	16660	31	0.3
56-	43.0306-	107.4417-	2-	15-	0-	W08874	72030	-0.05	484	12500	51	-84	5.9	37	2.8	3	0.4	10960	4.2	17920	30	0.2
56-	43.0850-	107.4806-	2-	15-	0-	W08876	78250	-0.05	446	15260	64	-75	7.6	60	3.5	4	0.9	15670	4.2	17180	35	0.3
56-	43.1369-	107.4797-	2-	15-	0-	W08881	51220	0.06	622	18490	122	-72	5.5	53	2.1	5	1.1	11780	19.8	15820	71	0.6
56-	43.1711-	107.4492-	2-	15-	0-	W08883	62100	-0.04	570	18390	59	-74	7.1	46	2.7	4	0.9	12300	6.2	18330	34	0.3
56-	43.0783-	107.3103-	2-	15-	0-	W08884	63430	-0.04	604	8060	55	-85	5.0	33	1.4	4	0.7	8167	7.6	20370	29	0.3
56-	43.0275-	107.3675-	2-	15-	0-	W08885	52090	-0.03	565	9696	140	101	3.8	43	1.3	9	0.9	9241	30.6	17940	85	0.8
56-	43.0400-	107.3617-	2-	15-	0-	W08886	53570	-0.03	544	9497	158	-65	4.9	62	1.4	8	1.5	11450	27.7	17870	93	1.1
56-	43.0631-	107.3211-	2-	15-	0-	W08887	57920	-0.03	653	6457	63	-79	6.0	27	1.3	5	0.7	7168	12.3	22150	35	0.6
56-	43.0911-	107.3461-	2-	15-	0-	W08888	67870	-0.05	576	8934	46	-86	6.1	34	2.5	3	0.6	9954	3.9	19560	29	0.3
56-	43.0678-	107.2075-	2-	15-	0-	W08890	63220	-0.04	739	17140	60	-69	5.8	43	2.5	4	0.8	11420	5.7	18800	34	0.3
56-	43.0594-	107.2156-	2-	15-	0-	W08891	60590	-0.04	661	20910	102	-68	7.4	61	2.7	5	1.2	14960	13.5	18850	57	0.6
56-	43.1422-	107.2017-	2-	15-	0-	W08895	54270	-0.04	514	9256	56	-59	5.5	34	3.1	4	0.7	8993	7.3	16310	28	0.4
56-	43.1611-	107.1639-	2-	15-	0-	W08896	37040	-0.03	482	7548	29	-40	3.7	17	1.8	3	0.8	5668	7.5	12490	20	0.3
56-	43.1522-	107.1422-	2-	15-	0-	W08897	41000	-0.03	512	6302	51	-49	3.4	28	1.5	3	0.7	6933	9.1	13850	29	0.3
56-	43.1464-	107.1353-	2-	15-	0-	W08898	52440	-0.04	536	11010	69	-39	6.4	46	4.1	4	0.9	12740	5.9	15430	34	0.3
56-	43.1289-	107.1317-	2-	15-	0-	W08899	45830	-0.03	576	9090	41	-40	5.2	31	2.4	3	0.7	7901	6.2	12400	23	0.3
56-	43.1147-	107.1264-	2-	15-	0-	W08900	55390	-0.05	517	9778	39	-63	4.2	28	2.6	3	0.6	7860	4.2	16110	24	0.1
56-	43.0411-	107.2150-	2-	15-	0-	W08902	65250	-0.03	703	18590	58	-76	5.7	39	2.2	4	0.7	10010	6.4	15940	34	0.3
56-	43.0014-	107.2942-	2-	15-	0-	W08903	54640	-0.04	530	5282	76	-43	6.5	49	3.6	4	0.9	12310	10.2	15810	45	0.4
56-	43.0106-	107.3442-	2-	15-	0-	W08905	64530	-0.04	606	5182	66	-80	5.9	40	2.1	5	0.6	10450	7.7	21570	36	0.4
56-	43.0222-	107.2900-	2-	15-	0-	W08907	61070	-0.04	474	3833	77	-87	3.7	36	-1.1	5	0.6	7640	11.6	20880	56	0.5
56-	43.0172-	107.1819-	2-	15-	0-	W08908	50070	-0.03	527	9407	53	56	4.1	33	2.3	4	0.7	7973	7.4	16780	27	0.3
56-	43.0272-	107.1722-	2-	15-	0-	W08909	57710	-0.04	718	9136	114	-79	4.9	35	1.2	7	0.9	7218	19.3	18120	68	0.8
56-	43.0672-	107.1256-	2-	15-	0-	W08910	58960	-0.04	721	21370	71	-71	8.4	89	2.2	5	1.0	20490	12.0	13700	46	0.4
56-	43.0406-	107.1533-	2-	15-	0-	W08911	47480	-0.05	496	25950	63	1140	8.6	77	2.1	4	0.8	14900	9.2	11740	31	0.3
56-	43.1214-	107.2542-	2-	15-	0-	W08912	51180	-0.04	517	7383	45	-77	4.9	38	2.0	3	0.9	9054	9.2	15770	26	0.3
56-	43.2131-	107.0369-	2-	15-	0-	W08913	45180	-0.03	2310	7026	61	-54	4.0	27	2.7	4	1.2	10970	7.3	13400	33	0.3
56-	43.2053-	107.0214-	2-	15-	0-	W08914	48930	-0.03	565	13520	53	407	4.3	26	2.1	3	0.9	10190	6.6	14950	31	0.2
56-	43.1917-	107.0139-	2-	15-	0-	W08915	63540	-0.05	464	12170	67	1011	5.5	37	4.4	4	1.0	14190	7.0	15620	39	0.4
56-	43.1622-	107.0467-	2-	15-	0-	W08919	43450	-0.04	1177	11010	39	83	4.2	29	2.1	3	1.0	8778	5.6	13280	24	0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.1369-106.5861-2-15-						0-W08845	17610	154	5572	28	-1	4.8	3.5	-186	-1	-1	5.8	2797	120	1.7	79	0.467
56-43.1333-106.5161-2-15-						0-W08846	24660	238	6401	-21	-1	5.3	1.8	-228	-1	-1	4.7	2960	105	-1.2	-35	0.585
56-43.1339-106.5083-2-15-						0-W08847	23050	224	6479	42	-1	6.1	3.2	-187	-1	-1	7.1	3104	102	2.1	64	0.382
56-43.1442-106.5458-2-15-						0-W08848	20510	163	5731	49	-1	7.4	4.1	-160	-1	-1	8.2	2851	108	2.8	89	0.309
56-43.1656-106.5594-2-15-						0-W08849	21750	156	5537	-15	-1	5.2	3.2	-187	-1	-1	6.2	2790	114	2.1	74	0.424
56-43.1650-106.5572-2-15-						0-W08850	20750	165	5734	-19	-1	4.4	1.8	-201	-1	-1	4.8	2624	104	1.6	-33	0.531
56-43.1975-106.5847-2-15-						0-W08851	7177	177	5358	34	-2	7.6	3.9	-202	-1	-1	7.4	3708	156	2.2	77	0.441
56-43.2169-106.5694-2-15-						0-W08852	25190	174	5445	73	-2	10.3	4.9	-189	-1	-1	11.1	3285	145	3.2	108	0.268
56-43.2253-106.5722-2-15-						0-W08853	30690	145	13200	23	-1	4.8	3.5	-223	-1	-1	6.1	2540	105	1.9	56	0.441
56-43.2353-106.6192-2-15-						0-W08854	21330	119	4474	-19	-1	5.2	1.8	-176	-1	-1	4.7	2955	126	1.6	-50	0.572
56-43.2708-106.6392-2-15-						0-W08855	2191	130	4397	33	-1	5.1	3.8	-144		-1	6.8	3054	118	2.3	40	0.466
56-43.2653-106.6556-2-15-						0-W08856	21310	125	5499	39	-1	6.5	4.3	-145	-1	-1	8.8	2627	100	2.6	-46	0.280
56-43.2506-106.6783-2-15-						0-W08857	19150	144	4656	35	-1	5.7	2.8	-177	-1	-1	6.2	2989	120	2.0	-23	0.402
56-43.2503-106.6833-2-15-						0-W08858	22770	122	5726	44	-1	4.6	1.9	-192	-1	-1	5.8	3369	116	2.3	-30	0.531
56-43.2300-107.2433-2-15-						0-W08860	15420	313	6900	27	-1	3.7	3.0	312			5.8	2471	37	2.4	26	0.467
56-43.1917-107.2539-2-15-						0-W08861	23790	394	6566	51	-1	7.5	5.3	289	-1	1	9.4	3267	54	3.5	69	0.321
56-43.1703-107.2939-2-15-						0-W08863	15460	285	8684	35	-1	5.6	4.3	-237	-1	-1	11.0	2889	59	3.0	49	0.282
56-43.1742-107.3164-2-15-						0-W08864	14740	254	8777	-22	-2	4.8	2.7	-257	-1	-1	8.2	2839	60	1.9	-34	0.413
56-43.1306-107.3833-2-15-						0-W08867	12810	420	9844	24	-1	4.9	4.0	-238	-1	-1	9.6	2602	47	2.3	39	0.348
56-43.1125-107.4325-2-15-						0-W08868	13960	355	11160	71	-2	9.5	7.4	-238	-1	-1	22.7	3225	60	4.0	62	0.281
56-43.0406-107.4364-2-15-						0-W08873	21820	342	10390	43	-1	5.9	4.5	-280	-1	-1	13.3	3055	62	2.9	-75	0.321
56-43.0306-107.4417-2-15-						0-W08874	20060	340	10540	42	-2	5.2	2.5	-291	-1	-1	10.3	3390	65	2.5	73	0.411
56-43.0850-107.4806-2-15-						0-W08876	29070	394	8086	48	-2	6.5	4.5	553	-1	-1	14.0	3441	70	2.6	-40	0.285
56-43.1369-107.4797-2-15-						0-W08881	9283	396	14970	46	-1	6.3	7.0	-231	1	1	23.5	3068	29	5.7	54	0.186
56-43.1711-107.4492-2-15-						0-W08883	16660	454	9281	36	-1	5.4	4.6	-273	-1	-1	11.6	2823	60	2.2	-58	0.329
56-43.0783-107.3103-2-15-						0-W08884	11430	315	13950	37	-1	4.2	2.8	-268	-1	-1	11.4	2739	43	2.9	-30	0.557
56-43.0275-107.3675-2-15-						0-W08885	6543	291	13460	35	-1	4.5	8.8	208	-1	1	32.5	2543	39	6.5	46	0.256
56-43.0400-107.3617-2-15-						0-W08886	8150	272	13980	48	-1	6.0	10.3	-196	-1	1	37.2	2299	35	8.3	75	0.195
56-43.0631-107.3211-2-15-						0-W08887	7554	229	15470	28	-1	3.5	4.5	-237	-1	-1	13.8	2111	28	3.8	30	0.436
56-43.0911-107.3461-2-15-						0-W08888	13130	353	12450	32	-1	4.9	2.9	-288	-1	-1	11.8	3046	49	2.4	-68	0.583
56-43.0678-107.2075-2-15-						0-W08890	16400	375	10830	37	-1	5.0	4.1	-240	-1	-1	11.0	2764	49	2.5	47	0.398
56-43.0594-107.2156-2-15-						0-W08891	15300	376	12250	50	-1	7.0	8.1	310	1	1	20.9	2680	44	4.6	69	0.219
56-43.1422-107.2017-2-15-						0-W08895	14400	263	6769	38	-1	4.9	3.8	-213	-1	-1	8.4	2960	55	2.4	-43	0.365
56-43.1611-107.1639-2-15-						0-W08896	9445	145	2994	-15	-1	3.0	2.2	-158	-1	-1	4.6	2495	55	1.6	36	0.607
56-43.1522-107.1422-2-15-						0-W08897	5842	217	7927	34	-1	3.4	3.6	-167	-1	-1	7.5	2641	44	2.1	-20	0.359
56-43.1464-107.1353-2-15-						0-W08898	13930	195	2945	57	-1	6.8	5.1	-161	-1	-1	10.9	2750	73	2.8	65	0.263
56-43.1289-107.1317-2-15-						0-W08899	10460	204	2675	28	-1	4.1	3.2	-176	-1	-1	7.3	2459	64	2.4	69	0.363
56-43.1147-107.1264-2-15-						0-W08900	11460	288	6741	46	-1	4.4	1.9	-238	-1	-1	5.4	2726	59	2.6	-37	0.526
56-43.0411-107.2150-2-15-						0-W08902	15870	326	13960	30	-1	4.8	3.5	339	-1	-1	11.8	2513	48	2.5	47	0.375
56-43.0014-107.2942-2-15-						0-W08903	7888	154	4704	38	-1	6.5	5.2	-156	-1	1	16.1	2642	58	3.2	53	0.298
56-43.0106-107.3442-2-15-						0-W08905	10050	234	13930	45	-1	4.8	5.1	-246	-1	-1	16.9	2392	44	3.1	73	0.431
56-43.0222-107.2900-2-15-						0-W08907	7560	254	16630	26	-1	4.1	5.2	-255	-1	-1	24.9	2127	37	3.9	-30	0.361
56-43.0172-107.1819-2-15-						0-W08908	11290	168	4751	31	-1	4.6	3.9	-156	-1	-1	10.3	2906	55	2.6	-15	0.400
56-43.0272-107.1722-2-15-						0-W08909	7780	243	15880	33	-1	3.9	8.0	347	-1	-1	29.3	2267	29	6.2	36	0.306
56-43.0672-107.1256-2-15-						0-W08910	23770	486	12260	41	-1	8.9	5.8	-239	-1	-1	14.4	3613	65	4.3	-67	0.278
56-43.0406-107.1533-2-15-						0-W08911	22660	424	47920	-21	-1	7.0	4.5	-429	-1	-1	10.7	2930	48	3.0	-33	0.375
56-43.1214-107.2542-2-15-						0-W08912	6927	363	12050	40	-1	4.3	2.9	-259	-1	-1	7.7	2379	38	2.3	-31	0.388
56-43.2131-107.0369-2-15-						0-W08913	5713	421	6976	36	-1	3.4	4.1	356	-1	-1	11.4	1795	46	2.3	49	0.355
56-43.2053-107.0214-2-15-						0-W08914	11380	122	14120	34	-1	4.1	4.1	-178	-1	-1	8.3	2079	50	1.9	30	0.317
56-43.1917-107.0139-2-15-						0-W08915	13970	133	18780	48	-1	5.9	5.1	-249	-1	-1	12.2	2687	60	2.8	-43	0.307
56-43.1622-107.0467-2-15-						0-W08919	11140	269	5673	25	-1	4.1	2.9	-204	-1	-1	6.6	2324	60	1.8	345	0.617

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.1394-	107.0903-	2-15-				0-W08920	08/29/77-	16-	21-		-	-	-	-	-	9-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	4.57
56-43.1561-	107.0417-	2-15-				0-W08921	08/29/77-	16-	21-		-	-	-	-	-	18-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.69
56-43.1347-	107.0328-	2-15-				0-W08922	08/29/77-	16-	21-		-	-	-	-	-	9-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.75
56-43.1156-	107.0475-	2-15-				0-W08923	08/30/77-	13-	22-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.71
56-43.0981-	107.0758-	2-15-				0-W08925	08/30/77-	14-	22-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.37
56-43.0922-	107.0139-	2-15-				0-W08926	08/30/77-	14-	22-		-	-	-	-	-	9-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.64
56-43.0736-	107.0306-	2-15-				0-W08927	08/30/77-	15-	21-		-	-	-	-	-	13-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.29
56-43.0664-	107.0008-	2-15-				0-W08928	08/30/77-	15-	21-		-	-	-	-	-	13-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.26
56-43.0978-	106.9531-	2-15-				0-W08930	08/30/77-	15-	21-		-	-	-	-	-	18-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.75
56-43.1614-	106.8800-	2-15-				0-W08931	08/30/77-	15-	21-		-	-	-	-	-	20-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.08
56-43.1339-	106.8989-	2-15-				0-W08932	08/30/77-	15-	21-		-	-	-	-	-	20-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.85
56-43.1086-	106.9081-	2-15-				0-W08934	08/30/77-	16-	20-		-	-	-	-	-	23-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.99
56-43.1564-	106.9114-	2-15-				0-W08937	08/30/77-	17-	19-		-	-	-	-	-	13-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.85
56-43.1397-	106.9553-	2-15-				0-W08938	08/30/77-	17-	19-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	5.50
56-43.1725-	106.9611-	2-15-				0-W08939	08/30/77-	18-	18-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.86
56-43.1800-	106.9611-	2-15-				0-W08940	08/30/77-	18-	18-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.89
56-43.3822-	106.8156-	2-11-				0-W08942	09/01/77-	10-	20-	12.0-	-	-	6.9-	500-		9-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	3-	1-	-1-	-	-	-	-	3.61
56-43.3869-	106.9186-	2-11-				0-W08943	09/01/77-	10-	20-	11.0-	-	-	6.9-	1500-		11-	1-	7-	5-	6-	3-	3-	1-	-4-	3-	3-	1-	-1-	-	-	-	-	3.85
56-43.3833-	106.9189-	2-15-				0-W08944	09/01/77-	10-	20-		-	-	-	-	-	18-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.47
56-43.3742-	106.9575-	2-15-				0-W08945	09/01/77-	11-	21-		-	-	-	-	-	18-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.39
56-43.3619-	106.8836-	2-15-				0-W08946	09/01/77-	11-	21-		-	-	-	-	-	13-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.01
56-43.3575-	106.8425-	2-15-				0-W08947	09/01/77-	11-	21-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.42
56-43.3508-	106.8458-	2-11-				0-W08948	09/01/77-	11-	21-	12.0-	-	-	6.5-	1500-		11-	1-	7-	5-	6-	3-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	3.20
56-43.3358-	106.9031-	2-15-				0-W08950	09/01/77-	12-	21-		-	-	-	-	-	9-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	4.68
56-43.2889-	106.9528-	2-15-				0-W08951	09/01/77-	13-	21-		-	-	-	-	-	18-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.63
56-43.3483-	106.9403-	2-11-				0-W08952	09/01/77-	13-	22-	11.0-	-	-	6.9-	1900-		13-	1-	7-	5-	6-	3-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	3.13
56-43.3469-	106.9531-	2-11-				0-W08953	09/01/77-	13-		12.0-	-	-	6.9-	1800-		16-	1-	7-	5-	6-	3-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	2.86
56-43.3328-	106.9133-	2-11-				0-W08954	09/01/77-	13-		11.0-	-	-	6.9-	2000-		13-	1-	7-	5-	6-	3-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	3.28
56-43.2775-	106.9589-	2-15-				0-W08955	09/01/77-	14-	22-		-	-	-	-	-	23-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.58
56-43.2697-	106.9328-	2-15-				0-W08956	09/01/77-	14-	22-		-	-	-	-	-	23-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.59
56-43.3089-	106.8922-	2-15-				0-W08957	09/01/77-	14-	22-		-	-	-	-	-	20-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.79
56-43.2994-	106.9056-	2-15-				0-W08958	09/01/77-	14-	22-		-	-	-	-	-	30-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.94
56-43.2647-	106.8906-	2-15-				0-W08959	09/01/77-	15-	23-		-	-	-	-	-	16-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	4.64
56-43.2719-	106.8742-	2-15-				0-W08960	09/01/77-	15-	23-		-	-	-	-	-	16-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	4.34
56-43.2578-	106.8378-	2-15-				0-W08961	09/01/77-	15-	22-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.19
56-43.2828-	106.8264-	2-11-				0-W08962	09/01/77-	15-	23-	14.0-	-	-	7.5-	2500-		13-	1-	7-	5-	6-	3-	3-	1-	-3-	3-	3-	1-	-1-	-	-	-	-	3.84
56-43.2525-	106.8050-	2-15-				0-W08963	09/01/77-	16-	22-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.75
56-43.3000-	106.8250-	2-15-				0-W08964	09/01/77-	16-	22-		-	-	-	-	-	4-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.74
56-43.3075-	106.7656-	2-15-				0-W08965	09/02/77-	11-	21-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.16
56-43.3175-	106.7425-	2-15-				0-W08966	09/02/77-	11-	21-		-	-	-	-	-	9-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	4.92
56-43.3478-	106.7061-	2-15-				0-W08968	09/02/77-	12-	22-		-	-	-	-	-	13-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.96
56-43.3700-	106.6872-	2-15-				0-W08969	09/02/77-	13-	22-		-	-	-	-	-	16-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	3.58
56-43.3500-	106.7511-	2-15-				0-W08970	09/02/77-	13-	22-		-	-	-	-	-	9-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	4.43
56-43.3444-	106.8075-	2-15-				0-W08971	09/02/77-	13-	22-		-	-	-	-	-	13-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	5.39
56-43.3686-	106.7617-	2-15-				0-W08972	09/02/77-	13-	22-		-	-	-	-	-	18-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	5.16
56-43.1864-	106.6375-	2-15-				0-W08973	09/03/77-	7-	18-		-	-	-	-	-	16-	1-	7-	5-	6-	-1-	-	-3-	3-	3-	1-	-1-	-	-	-	-	2.08
56-43.1953-	106.6367-	2-15-				0-W08974	09/03/77-	7-	18-		-	-	-	-	-	20-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.25
56-43.1992-	106.6500-	2-15-				0-W08975	09/03/77-	7-	18-		-	-	-	-	-	16-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.71
56-43.2006-	106.6517-	2-15-				0-W08976	09/03/77-	8-	19-		-	-	-	-	-	18-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.63
56-43.2172-	106.6328-	2-15-				0-W08977	09/03/77-	8-	19-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.71
56-43.2297-	106.6517-	2-15-				0-W08978	09/03/77-	8-	19-		-	-	-	-	-	11-	1-	7-	5-	6-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.51

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm [a]	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.1394-107.0903-2-15-						0-W08920	-5	-5	-5	38	-20	60	11	-10	-15	4	96
56-43.1561-107.0417-2-15-						0-W08921	-5	-5	-5	24	-20	15	14	-10	-15	3	42
56-43.1347-107.0328-2-15-						0-W08922	-5	-5	-5	33	-20	21	16	-10	-15	3	31
56-43.1156-107.0475-2-15-						0-W08923	-5	-5	-5	25	-20	19	12	-10	-15	3	40
56-43.0981-107.0758-2-15-						0-W08925	-5	-5	-5	19	-20	-15	8	-10	-15	2	23
56-43.0922-107.0139-2-15-						0-W08926	-5	-5	-5	20	-20	-15	20	-10	-15	2	15
56-43.0736-107.0306-2-15-						0-W08927	-5	-5	-5	24	-20	22	28	-10	-15	2	33
56-43.0664-107.0008-2-15-						0-W08928	-5	-5	-5	33	-20	37	13	-10	-15	3	49
56-43.0929-106.9531-2-15-						0-W08930	-5	7	-5	35	-20	17	5	-10	-15	3	50
56-43.1614-106.8800-2-15-						0-W08931	-5	-5	-5	27	-20	-15	18	-10	-15	2	24
56-43.1339-106.8989-2-15-						0-W08932	-5	-5	-5	16	-20	-15	15	-10	-15	3	53
56-43.1086-106.9081-2-15-						0-W08934	-5	-5	-5	27	-20	-15	12	-10	-15	3	58
56-43.1564-106.9114-2-15-						0-W08937	-5	-5	-5	37	-20	52	16	-10	-15	3	43
56-43.1397-106.9553-2-15-						0-W08938	-5	-5	-5	16	-20	45	12	-10	-15	3	86
56-43.1725-106.9611-2-15-						0-W08939	-5	-5	-5	17	-20	19	5	-10	-15	3	62
56-43.1800-106.9611-2-15-						0-W08940	-5	-5	-5	21	-20	16	11	-10	-15	3	71
56-43.3822-106.8156-2-11-						0-W08942	-5	-5	-5	26	-20	-15	11	-10	-15	2	24
56-43.3869-106.9186-2-11-						0-W08943	-5	-5	-5	24	-20	15	6	-10	-15	3	31
56-43.3833-106.9189-2-15-						0-W08944	-5	-5	-5	25	-20	-15	9	-10	-15	2	35
56-43.3742-106.9575-2-15-						0-W08945	-5	-5	-5	17	-20	-15	9	-10	-15	3	49
56-43.3619-106.8836-2-15-						0-W08946	-5	-5	-5	16	-20	-15	-5	-10	-15	2	24
56-43.3575-106.8425-2-15-						0-W08947	-5	-5	-5	18	-20	-15	-5	-10	-15	2	24
56-43.3508-106.8458-2-11-						0-W08948	-5	-5	-5	24	-20	-15	7	-10	-15	2	32
56-43.3358-106.9031-2-15-						0-W08950	-5	-5	-5	31	-20	-15	11	-10	-15	2	43
56-43.2889-106.9528-2-15-						0-W08951	-5	-5	-5	12	-20	-15	-5	-10	-15	2	29
56-43.3483-106.9403-2-11-						0-W08952	-5	-5	-5	16	-20	16	7	-10	-15	2	28
56-43.3469-106.9531-2-11-						0-W08953	-5	-5	-5	13	-20	-15	9	-10	-15	2	32
56-43.3328-106.9133-2-11-						0-W08954	-5	-5	-5	15	-20	-15	5	-10	-15	2	30
56-43.2775-106.9589-2-15-						0-W08955	-5	-5	-5	14	-20	-15	8	-10	-15	2	29
56-43.2697-106.9328-2-15-						0-W08956	-5	-5	-5	-10	-20	-15	7	-10	-15	2	27
56-43.3089-106.8922-2-15-						0-W08957	-5	-5	-5	12	-20	-15	6	-10	-15	2	42
56-43.2994-106.9056-2-15-						0-W08958	-5	-5	-5	13	-20	-15	-5	-10	-15	2	29
56-43.2647-106.8906-2-15-						0-W08959	-5	-5	-5	19	-20	20	9	-10	-15	2	31
56-43.2739-106.8742-2-15-						0-W08960	-5	-5	-5	16	-20	-15	14	-10	-15	2	29
56-43.2578-106.8378-2-15-						0-W08961	-5	-5	-5	20	-20	-15	10	-10	-15	2	45
56-43.2828-106.8264-2-11-						0-W08962	-5	-5	-5	20	-20	-15	9	-10	-15	3	48
56-43.2525-106.8050-2-15-						0-W08963	-5	-5	-5	12	-20	-15	10	-10	-15	2	50
56-43.3000-106.8250-2-15-						0-W08964	-5	-5	-5	20	-20	-15	5	-10	-15	2	44
56-43.3075-106.7656-2-15-						0-W08965	-5	-5	-5	11	-20	-15	-5	-10	16	2	36
56-43.3175-106.7425-2-15-						0-W08966	-5	-5	-5	10	-20	-15	13	-10	-15	2	28
56-43.3478-106.7061-2-15-						0-W08968	-5	-5	-5	16	-20	-15	9	-10	-15	2	34
56-43.3700-106.6872-2-15-						0-W08969	-5	-5	-5	19	-20	-15	8	-10	-15	2	48
56-43.3500-106.7511-2-15-						0-W08970	-5	-5	-5	20	-20	-15	8	-10	-15	3	44
56-43.3444-106.8075-2-15-						0-W08971	-5	-5	-5	20	-20	-15	11	-10	-15	3	29
56-43.3686-106.7617-2-15-						0-W08972	-5	-5	-5	17	-20	-15	-5	-10	-15	2	30
56-43.1864-106.6375-2-15-						0-W08973	-5	-5	-5	11	-20	-15	-5	-10	-15	3	35
56-43.1953-106.6367-2-15-						0-W08974	-5	-5	-5	19	-20	-15	-5	-10	-15	3	37
56-43.1992-106.6500-2-15-						0-W08975	-5	-5	-5	18	-20	17	10	-10	-15	2	50
56-43.2006-106.6517-2-15-						0-W08976	-5	-5	-5	24	-20	19	11	-10	-15	2	42
56-43.2172-106.6328-2-15-						0-W08977	-5	-5	-5	12	-20	-15	6	-10	-15	2	32
56-43.2297-106.6517-2-15-						0-W08978	-5	-5	-5	18	-20	-15	5	-10	-15	2	43

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.1394-107.0903-2-15-						0-W08920	70590	-0.05	707	60740	57	115	8.7	74	5.5	4	0.9	17700	3.3	17220	36	0.3
56-43.1561-107.0417-2-15-						0-W08921	49370	-0.04	650	32030	45	-59	5.8	32	2.6	2	0.7	11320	4.4	14260	24	0.3
56-43.1347-107.0328-2-15-						0-W08922	48650	-0.05	665	27650	44	993	4.9	39	3.2	3	0.8	11560	5.8	14070	31	0.3
56-43.1156-107.0475-2-15-						0-W08923	52580	-0.03	745	11020	46	-48	4.9	42	2.4	4	0.7	11340	6.3	16000	26	0.2
56-43.0981-107.0758-2-15-						0-W08925	42130	-0.03	548	8382	46	-35	4.8	29	2.4	3	0.7	8827	4.5	15510	24	0.2
56-43.0922-107.0139-2-15-						0-W08926	39620	-0.03	521	7926	50	99	4.4	26	2.1	3	0.9	8349	8.1	13890	24	0.3
56-43.0736-107.0306-2-15-						0-W08927	40540	-0.04	439	15770	40	-57	4.1	34	1.5	-1	0.6	8060	6.2	14480	23	0.3
56-43.0664-107.0008-2-15-						0-W08928	69320	-0.05	667	11610	54	-58	6.6	59	3.8	4	0.8	14870	4.5	19320	35	0.3
56-43.0928-106.9531-2-15-						0-W08930	82450	-0.05	723	26880	58	-50	8.6	71	5.7	4	0.9	18210	4.5	17010	39	0.3
56-43.1614-106.8800-2-15-						0-W08931	30950	-0.03	853	24080	40	135	5.6	25	1.7	2	0.6	11360	3.0	11150	20	0.2
56-43.1339-106.8989-2-15-						0-W08932	46950	-0.05	1172	23990	47	-52	6.4	41	3.1	-1	0.9	16180	4.7	13720	28	0.2
56-43.1086-106.9081-2-15-						0-W08934	49150	-0.03	751	20020	47	904	5.1	47	3.0	4	0.7	12240	5.9	15000	26	0.3
56-43.1564-106.9114-2-15-						0-W08937	30540	-0.04	594	11590	47	-43	6.9	60	4.5	3	0.9	15250	6.6	13350	32	0.3
56-43.1397-106.9553-2-15-						0-W08938	68930	-0.06	657	63850	73	-60	9.3	69	6.1	4	1.0	18750	3.7	17540	36	0.4
56-43.1725-106.9611-2-15-						0-W08939	55280	-0.05	634	29960	45	-54	4.8	49	3.0	3	1.0	12120	4.7	15570	27	0.2
56-43.1800-106.9611-2-15-						0-W08940	65120	-0.04	649	21470	52	-45	5.5	57	4.7	3	0.9	13120	5.2	17780	30	0.3
56-43.3822-106.8156-2-11-						0-W08942	52070	-0.05	592	12090	56	-77	9.0	48	2.1	4	1.0	15550	11.5	17350	35	0.3
56-43.3869-106.9186-2-11-						0-W08943	61250	-0.05	506	21980	81	-67	10.1	45	3.7	5	1.3	18570	7.2	13870	38	0.4
56-43.3833-106.9189-2-15-						0-W08944	45000	-0.04	509	30480	44	-58	4.8	32	-1.2	-1	0.9	10020	4.8	14040	21	0.2
56-43.3742-106.9575-2-15-						0-W08945	53750	-0.03	501	19710	49	-52	5.6	34	2.4	4	0.9	11580	6.6	14430	26	0.3
56-43.3619-106.8836-2-15-						0-W08946	42170	-0.03	491	32800	36	-51	4.6	31	1.9	3	0.7	8270	7.4	14170	19	0.3
56-43.3575-106.8425-2-15-						0-W08947	39930	-0.03	667	27640	40	-57	6.0	30	2.4	3	0.7	9846	6.8	13460	22	0.3
56-43.3508-106.8458-2-11-						0-W08948	43190	-0.04	675	23510	45	-64	4.9	23	-1.2	4	0.7	11120	8.1	11160	24	0.4
56-43.3358-106.9031-2-15-						0-W08950	52190	-0.04	459	5268	53	-61	8.2	39	3.0	5	0.8	21000	6.1	11170	30	0.4
56-43.2889-106.9528-2-15-						0-W08951	43280	-0.03	606	6677	47	-49	3.7	28	1.7	3	0.8	8606	10.8	14160	32	0.3
56-43.3483-106.9403-2-11-						0-W08952	47880	-0.04	609	16040	99	-71	6.2	42	2.7	3	1.1	15940	13.6	17740	56	0.4
56-43.3469-106.9531-2-11-						0-W08953	38000	-0.04	673	7417	36	-68	2.9	15	-0.9	2	0.8	4811	8.6	14130	22	0.3
56-43.3328-106.9133-2-11-						0-W08954	41470	-0.03	703	6299	44	-56	3.0	23	1.8	3	0.7	5862	8.6	13040	25	0.3
56-43.2775-106.9589-2-15-						0-W08955	43770	0.07	694	7231	59	-47	4.2	32	2.1	4	0.9	8080	13.1	14370	32	0.4
56-43.2697-106.9328-2-15-						0-W08956	35680	-0.03	678	9013	55	86	3.4	26	1.4	3	1.0	6719	13.4	11990	30	0.3
56-43.3089-106.8922-2-15-						0-W08957	45400	-0.05	637	14960	51	-98	4.4	29	2.2	2	1.1	11210	12.4	17100	29	0.4
56-43.2994-106.9056-2-15-						0-W08958	40260	-0.03	788	8608	46	-55	2.9	24	1.8	3	0.8	5935	9.4	12930	25	0.3
56-43.2647-106.8906-2-15-						0-W08959	51590	-0.03	655	6315	60	-58	7.2	39	3.5	4	1.0	16030	10.3	14150	37	0.5
56-43.2739-106.8742-2-15-						0-W08960	47050	-0.04	746	6505	80	-65	7.3	34	2.8	4	1.0	13420	10.8	13660	36	0.4
56-43.2578-106.8378-2-15-						0-W08961	45630	-0.04	469	14550	37	-69	3.1	23	1.5	-1	0.8	7875	4.3	13640	27	0.2
56-43.2828-106.8264-2-11-						0-W08962	49480	-0.03	586	10090	52	301	4.0	28	2.7	5	0.9	7526	11.7	13140	31	0.4
56-43.2525-106.8050-2-15-						0-W08963	48170	-0.03	601	12030	47	-57	4.1	25	1.7	3	0.9	9182	9.1	14160	29	0.3
56-43.3000-106.8250-2-15-						0-W08964	51100	-0.04	691	22680	75	-63	7.8	44	2.8	5	1.1	13990	9.2	14530	33	0.4
56-43.3075-106.7656-2-15-						0-W08965	50830	-0.04	790	10190	42	792	4.1	23	2.6	2	0.6	9141	4.1	17100	24	0.2
56-43.3175-106.7425-2-15-						0-W08966	56410	-0.03	609	11310	67	-72	4.9	33	1.7	4	0.8	10980	8.2	21660	41	0.3
56-43.3478-106.7061-2-15-						0-W08968	53910	-0.03	614	7291	60	-49	4.5	30	3.0	4	0.9	9693	10.3	17210	33	0.3
56-43.3700-106.6872-2-15-						0-W08969	56990	-0.04	644	9263	64	-46	5.3	51	4.2	4	0.9	12000	6.9	17830	31	0.3
56-43.3500-106.7511-2-15-						0-W08970	48980	-0.04	518	8134	48	-67	4.4	25	2.7	3	0.7	9779	7.4	14360	30	0.3
56-43.3444-106.8075-2-15-						0-W08971	45040	-0.03	821	5806	57	-52	4.5	26	2.3	4	0.8	9386	9.8	14750	34	0.4
56-43.3686-106.7617-2-15-						0-W08972	44460	-0.03	1113	7478	59	-54	5.3	26	2.6	4	0.9	11440	10.4	11980	34	0.3
56-43.1864-106.6375-2-15-						0-W08973	43770	-0.03	554	18370	60	-50	4.6	44	1.8	3	0.9	11730	5.9	12740	27	0.2
56-43.1953-106.6367-2-15-						0-W08974	42250	-0.04	-90	17990	46	-52	3.5	40	1.9	3	0.8	10880	6.4	12130	28	0.3
56-43.1992-106.6500-2-15-						0-W08975	48680	-0.03	633	22050	44	86	4.7	38	2.9	4	0.8	10750	5.0	14190	26	0.3
56-43.2006-106.6517-2-15-						0-W08976	48290	-0.04	729	23440	55	77	5.8	48	3.6	3	0.8	12940	5.9	15040	26	0.3
56-43.2172-106.6328-2-15-						0-W08977	35540	-0.04	850	22920	42	-57	4.3	36	1.7	3	0.8	11300	10.0	11910	23	0.3
56-43.2297-106.6517-2-15-						0-W08978	32040	-0.03	695	19690	41	126	3.6	38	2.0	3	0.8	8639	8.2	10120	23	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.1394-107.0903-2-15-						0-W08920	15560	201	4208	83	2	9.7	5.3	398	-1	-1	9.7	3929	247	2.8	131	0.471
56-43.1561-107.0417-2-15-						0-W08921	13080	205	7914	33	-1	4.8	3.1	339	-1	-1	7.0	2058	73	2.2	-51	0.384
56-43.1347-107.0328-2-15-						0-W08922	14550	187	6119	-21	-2	5.3	2.9	-212	-1	-1	6.8	2726	116	2.4	-35	0.551
56-43.1156-107.0475-2-15-						0-W08923	12950	212	6222	34	-1	5.7	3.0	-170		-1	7.1	2771	107	2.0	77	0.382
56-43.0981-107.0758-2-15-						0-W08925	9627	168	3423	36	-1	4.4	3.0	-136		-1	6.6	2240	56	1.5	-43	0.359
56-43.0922-107.0139-2-15-						0-W08926	7743	164	3746	37	-1	4.2	3.7	-165	-1	-1	7.7	2456	52	2.5	80	0.343
56-43.0736-107.0306-2-15-						0-W08927	12480	186	6852	-17	-1	3.7	2.5	-188	-1	-1	5.5	2149	52	2.7	-28	0.416
56-43.0664-107.0008-2-15-						0-W08928	18510	307	5514	60	-1	7.7	3.8	-234	-1	-1	10.4	3510	102	2.4	-59	0.313
56-43.0928-106.9531-2-15-						0-W08930	20900	243	4153	56	-2	10.2	4.9	369	-1	-1	11.2	3913	147	2.1	-52	0.335
56-43.1614-106.8800-2-15-						0-W08931	13060	219	7227	35	-1	3.7	3.5	-192	-1	-1	4.9	1430	60	1.7	67	0.424
56-43.1339-106.8989-2-15-						0-W08932	20330	179	4247	-21	-1	6.5	2.8	-187	-1	-1	7.0	2549	136	1.9	-33	0.407
56-43.1086-106.9081-2-15-						0-W08934	37450	126	12380	44	-1	6.3	3.1	-192	-1	-1	7.0	3109	132	2.1	85	0.427
56-43.1564-106.9114-2-15-						0-W08937	12650	200	4916	49	2	7.3	3.9	-159	-1	-1	8.9	2028	81	2.8	70	0.320
56-43.1397-106.9553-2-15-						0-W08938	18670	178	3640	69	-2	9.3	5.0	-232	-1	-1	10.7	3488	240	2.9	146	0.514
56-43.1725-106.9611-2-15-						0-W08939	15030	119	4913	-21	-2	6.0	2.8	247	-1	-1	7.3	2805	132	3.0	-36	0.529
56-43.1800-106.9611-2-15-						0-W08940	19890	139	4038	47	-1	7.1	4.2	222	-1	-1	9.6	3457	144	2.9	89	0.405
56-43.3822-106.8156-2-11-						0-W08942	10450	614	9222	43	-1	6.3	4.5	-313	-1	-1	9.7	3387	58	2.6	76	0.372
56-43.3869-106.9186-2-11-						0-W08943	14370	653	4748	46	-2	8.4	6.0	-312	-1	-1	10.5	3323	76	4.5	-61	0.367
56-43.3833-106.9189-2-15-						0-W08944	13730	372	5087	45	-1	5.2	-2.0	-235	-1	-1	5.8	2627	54	2.7	-33	0.426
56-43.3747-106.9575-2-15-						0-W08945	13000	509	5024	41	-1	5.8	3.6	-228		-1	8.0	2819	66	3.0	67	0.424
56-43.3619-106.8836-2-15-						0-W08946	15500	227	6992	32	-1	4.4	3.3	-170	-1	-1	4.9	2248	38	2.6	-21	0.410
56-43.3575-106.8425-2-15-						0-W08947	11090	317	5975	33	-1	4.4	3.6	-214	-1	-1	5.8	1996	37	2.7	36	0.417
56-43.3508-106.8458-2-11-						0-W08948	12320	410	5599	23	-1	4.5	3.1	-252	-1	-1	7.2	2266	51	2.7	-32	0.444
56-43.3358-106.9031-2-15-						0-W08950	7475	910	4610	38	1	6.3	4.2	-305	-1	-1	8.3	2918	72	2.4	65	0.564
56-43.2889-106.9528-2-15-						0-W08951	7939	136	8135	31	-1	3.7	3.8	155	-1	-1	8.1	2084	47	2.4	61	0.325
56-43.3483-106.9403-2-11-						0-W08952	9144	382	10180	37	-1	4.7	5.7	-246	-1	-1	19.5	3975	76	3.1	-25	0.161
56-43.3469-106.9531-2-11-						0-W08953	4521	138	10990	-16	-1	2.3	2.3	-200	-1	-1	5.8	1708	27	2.2	-26	0.493
56-43.3328-106.9133-2-11-						0-W08954	5562	133	9609	27	-1	2.6	3.0	-168			7.8	2337	36	3.0	42	0.421
56-43.2775-106.9589-2-15-						0-W08955	5882	164	7409	34	-1	3.7	4.7	297	-1	-1	9.3	1880	42	3.1	58	0.385
56-43.2697-106.9328-2-15-						0-W08956	7262	86	7717	32	-1	2.7	3.6	-157	-1	-1	7.9	1694	38	2.2	29	0.328
56-43.3089-106.8922-2-15-						0-W08957	7180	305	18360	-21	-1	4.2	3.5	-294	-1	-1	8.4	2210	54	2.2	-36	0.451
56-43.2994-106.9056-2-15-						0-W08958	5349	142	10330	25	-1	2.6	3.0	255			7.1	1898	36	1.7	27	0.414
56-43.2647-106.8906-2-15-						0-W08959	6312	609	6315	39	-1	5.5	5.3	-249	-1	-1	10.4	2511	57	3.1	99	0.446
56-43.2739-106.8742-2-15-						0-W08960	4797	543	6597	43	-1	4.8	5.3	-277	-1	1	11.4	2297	56	2.9	72	0.381
56-43.2578-106.8378-2-15-						0-W08961	6343	210	11230	-16	-1	3.3	2.0	-210	-1	-1	6.1	2010	41	1.8	-26	0.359
56-43.2828-106.8264-2-11-						0-W08962	6602	87	19400	-12	-1	3.5	3.8	-198	-1	-1	10.6	2479	41	3.1	45	0.362
56-43.2525-106.8050-2-15-						0-W08963	5935	226	11020	36	-1	4.2	3.4	-177			7.9	2135	48	2.2	-47	0.348
56-43.3000-106.8250-2-15-						0-W08964	9384	468	6223	40	-1	6.6	5.4	-261	-1	-1	9.5	3557	60	3.5	71	0.394
56-43.3075-106.7656-2-15-						0-W08965	9523	105	10640	40	-1	4.0	3.4	-208	-1	-1	8.2	2131	59	2.4	-34	0.385
56-43.3175-106.7425-2-15-						0-W08966	10820	395	14060	44	-1	4.6	4.8	314	-1	-1	16.8	2942	51	3.0	55	0.293
56-43.3478-106.7061-2-15-						0-W08968	7642	152	8393	35	-1	4.7	3.7	-156	-1	-1	8.6	2507	53	2.5	48	0.344
56-43.3700-106.6872-2-15-						0-W08969	14500	107	5031	44	-1	6.2	4.4	-165	-1	-1	10.3	2840	98	2.8	-36	0.348
56-43.3500-106.7511-2-15-						0-W08970	7439	404	6970	-19	-1	4.2	3.0	-264	-1	-1	8.9	2035	55	3.1	43	0.498
56-43.3444-106.8075-2-15-						0-W08971	4648	411	6718	31	-1	3.4	4.6	276	-1	-1	11.2	2205	51	3.3	55	0.481
56-43.3686-106.7617-2-15-						0-W08972	5511	425	6229	43	-1	4.2	4.2	-215	-1	-1	11.5	1952	52	3.4	58	0.449
56-43.1864-106.6375-2-15-						0-W08973	18840	109	6010	-14	-1	5.0	3.9	-167	-1	-1	7.7	2266	82	2.0	64	0.270
56-43.1953-106.6367-2-15-						0-W08974	20700	107	6161	-18	-1	4.8	2.0	-170	-1	-1	7.3	2307	84	1.6	-29	0.308
56-43.1992-106.6500-2-15-						0-W08975	41230	139	10960	38	1	5.5	2.8	-186	-1	-1	6.5	3238	108	2.1	47	0.417
56-43.2006-106.6517-2-15-						0-W08976	26180	144	5443	42	-1	6.2	3.9	-174	-1	-1	7.3	2761	104	2.3	-52	0.360
56-43.2172-106.6328-2-15-						0-W08977	19390	172	6356	-18	-1	4.4	2.9	-193	-1	-1	6.1	2391	89	2.4	-31	0.444
56-43.2297-106.6517-2-15-						0-W08978	32760	97	12310	26	-1	3.9	3.0	-165			6.1	2357	89	1.8	34	0.411

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.2206-106.7439-2-15-						0-W08979-09/03/77-	8-	19-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.51
56-43.2206-106.7461-2-15-						0-W08980-09/03/77-	8-	19-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.53
56-43.1797-106.7189-2-15-						0-W08981-09/03/77-	9-	20-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.96
56-43.1353-106.7092-2-15-						0-W08983-09/03/77-	9-	20-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.32
56-43.1444-106.6667-2-15-						0-W08984-09/03/77-10-		21-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.93
56-43.1533-106.6514-2-15-						0-W08985-09/03/77-10-		21-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.98
56-43.1508-106.6511-2-15-						0-W08986-09/03/77-10-		21-	-	-	-	-	-	-	-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.01
56-43.2381-106.5364-2-15-						0-W08988-09/03/77-11-		22-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.45
56-43.2483-106.5056-2-15-						0-W08989-09/03/77-11-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	5.73
56-43.2567-106.5031-2-15-						0-W08990-09/03/77-11-		21-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.76
56-43.2758-106.5231-2-15-						0-W08991-09/03/77-11-		21-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.93
56-43.2781-106.5233-2-15-						0-W08992-09/03/77-11-		21-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.52
56-43.2950-106.5008-2-15-						0-W08993-09/03/77-11-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.59
56-43.2706-106.6175-2-15-						0-W08994-09/03/77-12-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.53
56-43.3350-106.5319-2-15-						0-W08995-09/03/77-13-		22-	-	-	-	-	-	-	16-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.88
56-43.3364-106.5347-2-15-						0-W08996-09/03/77-13-		22-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	1.66
56-43.3389-106.5261-2-15-						0-W08997-09/03/77-13-		22-	-	-	-	-	-	-	16-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.04
56-43.3481-106.5172-2-15-						0-W08998-09/03/77-13-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.18
56-43.3656-106.5144-2-15-						0-W08999-09/03/77-14-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.02
56-43.3453-106.5453-2-15-						0-W09000-09/03/77-14-		22-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.40
56-43.3658-106.5708-2-15-						0-W09001-09/03/77-14-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.27
56-43.3731-106.6153-2-15-						0-W09002-09/03/77-15-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.37
56-43.3122-107.6411-2-15-						0-W09004-09/03/77-15-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.89
56-43.3278-106.6522-2-15-						0-W09005-09/03/77-16-		21-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.79
56-43.3356-106.6611-2-15-						0-W09006-09/03/77-16-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.35
56-43.3356-106.6608-2-15-						0-W09007-09/03/77-16-		22-	-	-	-	-	-	-	11-1-7- - -	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.65
56-43.3535-106.6644-2-15-						0-W09008-09/03/77-16-		21-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.61
56-43.8306-106.1986-2-15-						0-W09010-09/05/77-10-		20-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.86
56-43.8672-106.1842-2-15-						0-W09012-09/05/77-10-		20-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	4.08
56-43.8736-106.1667-2-15-						0-W09014-09/05/77-11-		21-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.30
56-43.8192-106.1647-2-15-						0-W09015-09/05/77-11-		21-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.60
56-43.3228-106.1500-2-15-						0-W09016-09/05/77-11-		21-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.54
56-43.8117-106.1375-2-15-						0-W09017-09/05/77-11-		21-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.61
56-43.7953-106.1208-2-15-						0-W09018-09/05/77-12-		21-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.09
56-43.7917-106.1236-2-15-						0-W09019-09/05/77-12-		21-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.14
56-43.8656-106.0811-2-15-						0-W09020-09/05/77-12-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	2.87
56-43.8861-106.1231-2-15-						0-W09021-09/05/77-13-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	5.74
56-43.8986-106.1231-2-15-						0-W09022-09/05/77-13-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.51
56-43.9131-106.0653-2-15-						0-W09023-09/05/77-13-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.45
56-43.9006-106.0750-2-15-						0-W09024-09/05/77-13-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.45
56-43.8769-106.0353-2-15-						0-W09025-09/05/77-13-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	4.06
56-43.8672-106.0333-2-15-						0-W09026-09/05/77-14-		22-	-	-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.26
56-43.8744-106.0228-2-15-						0-W09027-09/05/77-14-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.95
56-43.9056-106.0583-2-15-						0-W09028-09/05/77-14-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.89
56-43.9700-106.0672-2-15-						0-W09029-09/05/77-14-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.75
56-43.9850-106.0642-2-15-						0-W09030-09/05/77-15-		22-	-	-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.02
56-43.9769-106.0181-2-15-						0-W09031-09/05/77-15-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.54
56-43.9347-106.1050-2-15-						0-W09032-09/05/77-15-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.90
56-43.9364-106.1025-2-15-						0-W09033-09/05/77-15-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	4.06
56-43.9747-106.1667-2-15-						0-W09034-09/05/77-16-		22-	-	-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.84
56-43.9650-106.1464-2-15-						0-W09035-09/05/77-15-		22-	-	-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	3.65

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.2206-106.7439-2-15-						0-W08979	-5	-5	-5	18	-20	-15	-5	-10	-15	3	43
56-43.2206-106.7461-2-15-						0-W08980	-5	-5	-5	11	-20	-15	6	-10	-15	3	43
56-43.1797-106.7189-2-15-						0-W08981	-5	-5	-5	14	-20	-15	10	-10	-15	2	41
56-43.1353-106.7092-2-15-						0-W08983	-5	-5	-5	15	-20	-15	9	-10	-15	2	33
56-43.1444-106.6667-2-15-						0-W08984	-5	-5	-5	29	-20	-15	10	-10	-15	2	50
56-43.1533-106.6514-2-15-						0-W08985	-5	-5	-5	34	-20	-15	15	-10	-15	3	43
56-43.1508-106.6511-2-15-						0-W08986	-5	-5	-5	-10	-20	-15	-5	-10	-15	3	44
56-43.2381-106.5364-2-15-						0-W08988	-5	13	-5	134	-20	43	146	61	-15	2	46
56-43.2483-106.5056-2-15-						0-W08989	-5	-5	-5	43	-20	26	104	66	-15	4	73
56-43.2567-106.5031-2-15-						0-W08990	-5	-5	-5	27	-20	-15	6	-10	-15	3	50
56-43.2758-106.5231-2-15-						0-W08991	-5	-5	-5	17	-20	-15	9	-10	-15	2	50
56-43.2781-106.5233-2-15-						0-W08992	-5	-5	-5	19	-20	20	7	-10	-15	2	48
56-43.2950-106.5008-2-15-						0-W08993	-5	-5	-5	30	-20	17	11	-10	-15	2	43
56-43.2706-106.6175-2-15-						0-W08994	-5	-5	-5	15	-20	-15	9	-10	-15	2	36
56-43.3350-106.5319-2-15-						0-W08995	-5	-5	-5	21	-20	-15	7	-10	-15	2	53
56-43.3364-106.5347-2-15-						0-W08996	-5	-5	-5	33	-20	-15	11	-10	-15	-1	37
56-43.3389-106.5261-2-15-						0-W08997	-5	-5	-5	31	-20	35	13	-10	-15	3	52
56-43.3481-106.5172-2-15-						0-W08998	-5	-5	-5	23	-20	43	9	-10	-15	3	36
56-43.3656-106.5144-2-15-						0-W08999	-5	-5	-5	31	-20	-15	10	-10	-15	2	61
56-43.3453-106.5453-2-15-						0-W09000	-5	-5	-5	30	-20	27	6	-10	-15	3	70
56-43.3658-106.5708-2-15-						0-W09001	-5	-5	-5	34	-20	27	18	-10	-15	3	72
56-43.3731-106.6153-2-15-						0-W09002	-5	-5	-5	27	-20	36	15	-10	-15	3	49
56-43.3122-107.6411-2-15-						0-W09004	-5	-5	-5	19	-20	17	-5	-10	-15	2	41
56-43.3278-106.6522-2-15-						0-W09005	-5	-5	-5	28	-20	35	9	-10	-15	3	60
56-43.3356-106.6611-2-15-						0-W09006	-5	-5	-5	26	-20	25	17	-10	-15	3	48
56-43.3356-106.6608-2-15-						0-W09007	-5	-5	-5	26	-20	-15	8	-10	-15	2	41
56-43.3536-106.6644-2-15-						0-W09008	-5	-5	-5	17	-20	-15	-5	-10	-15	2	46
56-43.8306-106.1986-2-15-						0-W09010	-5	-5	-5	26	-20	17	7	-10	-15	2	35
56-43.8672-106.1842-2-15-						0-W09012	-5	-5	-5	33	-20	30	5	-10	-15	3	32
56-43.8736-106.1667-2-15-						0-W09014	-5	-5	-5	28	-20	-15	12	-10	-15	3	42
56-43.8192-106.1647-2-15-						0-W09015	-5	-5	-5	16	-20	-15	8	-10	-15	2	29
56-43.8228-106.1500-2-15-						0-W09016	-5	-5	-5	30	-20	-15	6	-10	-15	2	32
56-43.8117-106.1375-2-15-						0-W09017	-5	-5	-5	14	-20	15	7	-10	-15	2	32
56-43.7953-106.1208-2-15-						0-W09018	-5	-5	-5	20	-20	-15	10	-10	-15	3	27
56-43.7917-106.1236-2-15-						0-W09019	-5	-5	-5	14	-20	17	6	-10	-15	2	34
56-43.8656-106.0811-2-15-						0-W09020	-5	-5	-5	23	-20	-15	8	-10	-15	2	28
56-43.8861-106.1231-2-15-						0-W09021	-5	-5	-5	29	-20	21	20	-10	-15	3	36
56-43.8986-106.1231-2-15-						0-W09022	-5	-5	-5	20	-20	-15	-5	-10	-15	2	20
56-43.9131-106.0653-2-15-						0-W09023	-5	-5	-5	21	-20	-15	7	-10	-15	2	26
56-43.9006-106.0750-2-15-						0-W09024	-5	-5	-5	25	-20	-15	11	-10	-15	2	26
56-43.8769-106.0353-2-15-						0-W09025	-5	-5	-5	11	-20	-15	-5	-10	-15	2	18
56-43.8672-106.0333-2-15-						0-W09026	-5	-5	-5	21	-20	18	6	-10	-15	2	30
56-43.8744-106.0228-2-15-						0-W09027	-5	-5	-5	24	-20	-15	9	-10	-15	2	20
56-43.9056-106.0583-2-15-						0-W09028	-5	-5	-5	17	-20	-15	12	-10	-15	1	22
56-43.9700-106.0672-2-15-						0-W09029	-5	-5	-5	25	-20	-15	18	-10	-15	3	40
56-43.9850-106.0642-2-15-						0-W09030	-5	-5	-5	20	-20	20	-5	-10	-15	2	29
56-43.9769-106.0181-2-15-						0-W09031	-5	-5	-5	27	-20	16	6	-10	-15	2	38
56-43.9347-106.1050-2-15-						0-W09032	-5	-5	-5	19	-20	15	13	-10	-15	2	30
56-43.9364-106.1025-2-15-						0-W09033	-5	-5	-5	22	-20	-15	8	-10	-15	2	29
56-43.9747-106.1667-2-15-						0-W09034	-5	-5	-5	23	-20	-15	11	-10	-15	2	37
56-43.9650-106.1464-2-15-						0-W09035	-5	-5	-5	26	-20	-15	14	-10	-15	2	27

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.2204-	106.7439-	2-	15-	0-	W08979	45310	-0.03	707	17070	44	-39	6.3	55	2.7	4	0.8	12820	5.8	13490	28	0.3
56-	43.2206-	106.7461-	2-	15-	0-	W08980	48840	-0.04	676	16340	56	-47	6.8	61	3.9	4	0.8	13370	6.3	13790	28	0.3
56-	43.1797-	106.7189-	2-	15-	0-	W08981	43710	-0.04	572	7994	49	-50	3.8	33	2.2	-1	0.8	10610	10.8	12330	27	0.3
56-	43.1353-	106.7092-	2-	15-	0-	W08983	40140	-0.03	709	10840	38	72	4.2	40	2.3	3	0.7	9555	6.3	12660	23	0.3
56-	43.1444-	106.6667-	2-	15-	0-	W08984	57880	-0.04	1145	19410	48	-48	9.2	61	4.1	4	1.0	21250	5.2	14820	30	0.4
56-	43.1533-	106.6514-	2-	15-	0-	W08985	58670	-0.05	1075	17730	66	-56	9.4	73	4.5	4	1.1	21590	6.1	15340	32	0.4
56-	43.1508-	106.6511-	2-	15-	0-	W08986	60490	-0.06	1049	16600	56	-57	8.2	56	4.3	3	0.9	20000	4.7	17300	30	0.3
56-	43.2381-	106.5364-	2-	15-	0-	W08988	40730	-0.03	717	15900	43	-43	4.2	42	2.3	3	0.8	9806	6.8	12890	24	0.3
56-	43.2483-	106.5056-	2-	15-	0-	W08989	79360	-0.06	3353	30060	106	-76	10.0	67	3.2	7	1.6	24360	9.4	8757	58	0.5
56-	43.2567-	106.5031-	2-	15-	0-	W08990	58030	-0.05	1413	23300	74	-63	8.3	77	3.1	4	1.1	18220	6.9	13620	36	0.4
56-	43.2758-	106.5231-	2-	15-	0-	W08991	50500	-0.05	720	14320	46	-55	5.9	51	2.5	-1	0.7	13550	7.1	14720	32	0.3
56-	43.2781-	106.5233-	2-	15-	0-	W08992	45610	-0.03	743	15770	44	42	5.5	46	2.4	4	0.8	11370	5.5	14630	24	0.3
56-	43.2950-	106.5008-	2-	15-	0-	W08993	44160	-0.03	751	16650	47	51	6.4	51	3.1	4	0.9	12930	7.4	13830	29	0.3
56-	43.2706-	106.6175-	2-	15-	0-	W08994	43550	-0.04	896	13710	46	91	7.4	54	2.7	3	0.7	13110	5.6	14460	23	0.3
56-	43.3350-	106.5319-	2-	15-	0-	W08995	52440	-0.05	714	18590	44	-51	5.6	52	3.7	3	0.9	13970	5.1	16330	29	0.3
56-	43.3364-	106.5347-	2-	15-	0-	W08996	28650	-0.03	463	143100	24	94	5.4	31	1.6	2	0.5	8252	2.9	8477	14	0.2
56-	43.3389-	106.5261-	2-	15-	0-	W08997	58060	-0.04	878	33480	57	-44	8.2	61	4.3	4	1.0	18530	4.8	15830	30	0.3
56-	43.3481-	106.5172-	2-	15-	0-	W08998	62660	-0.06	1084	18070	71	-60	9.8	69	4.9	4	1.1	20490	5.3	15600	34	0.4
56-	43.3656-	106.5144-	2-	15-	0-	W08999	54850	-0.06	1179	54810	48	-63	6.8	59	3.7	3	1.0	18320	4.0	16990	28	0.2
56-	43.3453-	106.5453-	2-	15-	0-	W09000	54640	-0.05	1182	34670	53	-62	7.6	65	4.8	4	0.7	19420	4.2	18060	31	0.3
56-	43.3658-	106.5708-	2-	15-	0-	W09001	68370	-0.04	901	30340	55	94	8.6	76	5.5	4	0.9	20820	4.3	18190	34	0.3
56-	43.3731-	106.6153-	2-	15-	0-	W09002	73470	-0.05	976	19150	80	-48	9.2	79	6.5	4	1.0	20600	4.9	18030	38	0.4
56-	43.3122-	107.6411-	2-	15-	0-	W09004	45900	-0.05	681	20600	42	-56	6.6	41	2.5	-1	1.0	12280	5.7	14280	23	0.2
56-	43.3278-	106.6522-	2-	15-	0-	W09005	69590	-0.04	1178	33960	47	151	8.3	66	4.9	4	0.7	20470	2.8	18460	32	0.3
56-	43.3356-	106.6611-	2-	15-	0-	W09006	64540	-0.04	895	20280	55	-56	8.1	63	4.5	4	1.0	18890	5.1	17030	32	0.3
56-	43.3356-	106.6608-	2-	15-	0-	W09007	42170	-0.04	943	25150	51	-55	6.6	51	2.6	4	1.0	14000	7.1	13490	26	0.3
56-	43.3536-	106.6644-	2-	15-	0-	W09008	49090	-0.05	536	18190	39	1793	4.8	31	2.3	-1	1.0	11930	5.2	12710	26	0.2
56-	43.8306-	106.1986-	2-	15-	0-	W09010	54110	-0.03	544	12840	48	-38	5.9	40	2.8	4	0.8	11870	6.4	15520	26	0.3
56-	43.8672-	106.1842-	2-	15-	0-	W09012	88950	-0.05	663	12310	69	-37	9.2	68	5.8	4	0.9	21530	3.8	15840	40	0.3
56-	43.8736-	106.1667-	2-	15-	0-	W09014	52120	-0.04	699	15960	60	-50	7.4	46	3.2	3	1.1	13140	7.0	15250	29	0.4
56-	43.8192-	106.1647-	2-	15-	0-	W09015	47500	-0.04	590	13990	49	83	5.3	34	2.4	3	0.9	10530	8.2	16930	30	0.3
56-	43.3228-	106.1500-	2-	15-	0-	W09016	47300	-0.03	557	12800	54	-37	4.8	36	2.8	4	0.8	10290	7.8	15880	27	0.4
56-	43.8117-	106.1375-	2-	15-	0-	W09017	49110	-0.03	601	13880	58	59	6.8	35	3.3	4	0.9	12220	7.4	16460	31	0.3
56-	43.7953-	106.1208-	2-	15-	0-	W09018	58270	-0.04	611	9342	58	-40	7.0	48	3.4	4	0.9	13930	4.9	16560	33	0.3
56-	43.7917-	106.1236-	2-	15-	0-	W09019	56900	-0.05	579	10500	51	-44	5.4	36	3.5	3	0.8	12160	4.5	15560	26	0.3
56-	43.8656-	106.0811-	2-	15-	0-	W09020	44060	-0.03	599	13890	47	-44	4.7	31	2.0	4	0.7	9275	7.3	14820	27	0.3
56-	43.8861-	106.1231-	2-	15-	0-	W09021	84120	-0.06	468	20040	70	-48	8.8	70	5.5	5	1.1	21920	4.5	19610	41	0.3
56-	43.8986-	106.1231-	2-	15-	0-	W09022	42370	-0.03	539	16450	66	-46	5.4	34	2.3	4	0.8	10180	11.4	14700	34	0.4
56-	43.9131-	106.0653-	2-	15-	0-	W09023	51120	-0.05	398	26560	57	-53	6.8	35	2.9	3	0.8	12260	5.9	16400	26	0.4
56-	43.9006-	106.0750-	2-	15-	0-	W09024	46510	-0.03	452	37000	45	-41	4.4	31	2.3	3	0.7	9895	6.0	15060	26	0.3
56-	43.8769-	106.0353-	2-	15-	0-	W09025	41110	-0.04	414	8340	45	-52	3.6	29	2.0	4	0.8	11100	14.1	12260	29	0.4
56-	43.8672-	106.0333-	2-	15-	0-	W09026	47290	-0.03	485	14810	47	56	4.9	37	2.3	4	0.7	10290	5.7	15220	28	0.3
56-	43.8744-	106.0228-	2-	15-	0-	W09027	46800	-0.03	524	17900	92	-41	6.7	48	3.3	5	1.1	14180	15.4	14360	47	0.5
56-	43.9054-	106.0583-	2-	15-	0-	W09028	52500	-0.04	564	18770	66	169	5.9	30	1.7	4	0.9	10910	9.0	14230	38	0.3
56-	43.9700-	106.0672-	2-	15-	0-	W09029	53160	-0.05	651	17740	44	-52	5.7	26	2.5	4	0.8	11420	4.3	17040	28	0.2
56-	43.9850-	106.0642-	2-	15-	0-	W09030	42890	-0.03	461	29160	40	115	4.2	30	2.4	3	0.6	9459	5.6	15560	23	0.3
56-	43.9769-	106.0181-	2-	15-	0-	W09031	53190	-0.04	521	34720	69	-41	8.5	53	4.3	4	1.0	17160	7.0	19860	39	0.4
56-	43.9347-	106.1050-	2-	15-	0-	W09032	47190	-0.04	540	18280	51	54	5.5	34	2.6	5	0.8	9651	7.7	13830	26	0.3
56-	43.9364-	106.1025-	2-	15-	0-	W09033	49410	-0.04	582	17770	30	-47	4.9	30	2.5	3	0.7	8755	6.6	13610	25	0.2
56-	43.9747-	106.1667-	2-	15-	0-	W09034	48440	-0.03	525	28790	49	-41	4.7	40	2.9	4	0.7	10880	6.1	14730	26	0.3
56-	43.9650-	106.1464-	2-	15-	0-	W09035	53810	-0.04	584	15020	78	-39	7.9	50	4.1	4	1.1	17390	7.5	16740	38	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.2206-106.7439-2-15-						0-W08979	20120	116	4443	33	-1	6.5	3.3	-136	-1	-1	6.4	3057	120	2.6	-62	0.392
56-43.2206-106.7461-2-15-						0-W08980	18460	132	4605	35	-1	6.7	4.4	-167	-1	-1	7.9	3012	121	2.6	84	0.320
56-43.1797-106.7189-2-15-						0-W08981	12000	134	5117	-18	-1	5.4	3.0	-174	-1	-1	6.2	2638	101	2.5	-65	0.477
56-43.1353-106.7092-2-15-						0-W08983	14400	132	5433	26	-1	4.7	3.0	-142			5.9	2944	96	2.3	467	0.393
56-43.1444-106.6667-2-15-						0-W08984	22410	339	4758	71	2	9.0	4.4	-199	-1	-1	8.9	3431	160	2.6	92	0.329
56-43.1533-106.6514-2-15-						0-W08985	19650	333	4833	55	-1	8.8	4.6	-231	-1	-1	9.0	3654	164	2.8	-67	0.331
56-43.1508-106.6511-2-15-						0-W08986	19500	340	4433	-25	-2	8.6	2.1	-243	-1	-1	7.1	2852	173	3.7	-51	0.424
56-43.2381-106.5964-2-15-						0-W08988	5236	134	5197	27	-1	4.9	3.2	-147		-1	6.2	2657	108	2.1	49	0.395
56-43.2483-106.5056-2-15-						0-W08989	23020	320	11520	-22	3	12.8	6.5	2287	-1	-1	20.3	5269	118	4.9	369	0.282
56-43.2567-106.5031-2-15-						0-W08990	19050	303	6181	41	-2	9.2	5.1	643	-1	-1	13.1	3538	132	2.8	264	0.287
56-43.2758-106.5231-2-15-						0-W08991	21820	125	5363	42	-2	6.6	2.7	-191	-1	-1	7.7	3647	139	-1.3	-40	0.381
56-43.2781-106.5233-2-15-						0-W08992	18830	140	4985	29	-1	5.5	3.3	-150		-1	6.6	2809	118	2.3	-34	0.382
56-43.2950-106.5008-2-15-						0-W08993	19230	137	5573	35	-1	6.2	3.8	-153	-1	-1	7.7	2674	118	2.5	68	0.336
56-43.2706-106.6175-2-15-						0-W08994	19010	121	8137	34	-1	6.0	3.6	-181	-1	-1	6.8	2722	116	2.2	81	0.372
56-43.3350-106.5319-2-15-						0-W08995	21270	137	4546	42	-2	7.1	2.9	-184	-1	-1	6.5	3188	146	1.8	-27	0.443
56-43.3364-106.5347-2-15-						0-W08996	19740	90	4051	-14	-1	3.7	1.9	532	-1		3.7	1734	82	-0.9	-33	0.449
56-43.3389-106.5261-2-15-						0-W08997	23410	187	4568	40	-1	8.9	3.8	282	-1	-1	8.1	3833	162	2.4	75	0.375
56-43.3481-106.5172-2-15-						0-W08998	23120	223	4591	49	-2	9.7	5.0	-235	-1	-1	9.5	3859	169	3.9	81	0.335
56-43.3656-106.5144-2-15-						0-W08999	22220	277	4901	-25	-2	8.0	3.4	-241	-1	-1	8.1	3285	163	-1.6	-40	0.373
56-43.3453-106.5453-2-15-						0-W09000	25610	270	6300	70	-2	8.8	3.7	-234	-1	-1	8.2	3598	192	2.5	97	0.415
56-43.3658-106.5708-2-15-						0-W09001	26840	243	4604	60	-1	10.8	4.2	304	-1	-1	9.2	3732	198	2.9	80	0.355
56-43.3731-106.6153-2-15-						0-W09002	24080	238	3938	67	-2	11.0	5.2	-209	-1	-1	10.5	4142	213	2.8	77	0.321
56-43.3122-107.6411-2-15-						0-W09004	23700	151	5972	31	-1	5.9	2.6	-192	-1	-1	7.2	2750	127	-1.5	36	0.401
56-43.3278-106.6522-2-15-						0-W09005	23500	242	5425	51	-1	9.4	4.0	-198	-1	-1	8.9	3831	203	2.9	106	0.426
56-43.3356-106.6611-2-15-						0-W09006	23670	234	6877	58	1	9.2	4.0	-194	-1	-1	9.4	3900	172	3.2	105	0.356
56-43.3356-106.6608-2-15-						0-W09007	19940	166	6505	43	-1	6.0	4.2	-188	-1	-1	8.4	2899	112	2.4	78	0.315
56-43.3536-106.6644-2-15-						0-W09008	31530	200	20580	-23	-2	5.4	2.5	-312	-1	-1	6.0	2482	109	3.2	-41	0.602
56-43.8306-106.1986-2-15-						0-W09010	14170	290	2657	42	-1	5.8	3.9	-178		-1	8.4	3233	96	2.8	51	0.460
56-43.8672-106.1842-2-15-						0-W09012	19900	317	1394	63	-2	11.6	4.8	-202	-1	-1	11.1	3767	169	3.4	102	0.368
56-43.8736-106.1667-2-15-						0-W09014	11670	496	2844	38	-1	6.4	4.2	-255	-1	-1	8.4	3308	91	2.1	77	0.393
56-43.8192-106.1647-2-15-						0-W09015	15260	260	2840	-18	-1	5.5	3.4	-201	-1	-1	8.8	2727	71	2.7	-31	0.409
56-43.3228-106.1500-2-15-						0-W09016	14300	262	3040	36	-1	5.1	3.7	-169		-1	8.5	3043	74	2.9	49	0.416
56-43.8117-106.1375-2-15-						0-W09017	13800	266	2885	39	-1	6.1	4.1	-169	-1	-1	8.7	2810	73	2.7	63	0.415
56-43.7953-106.1208-2-15-						0-W09018	13640	250	2567	50	-1	7.2	4.4	-194	-1	-1	10.0	3032	95	2.2	-23	0.309
56-43.7917-106.1236-2-15-						0-W09019	13170	245	2540	-20	-2	6.5	3.0	-204	-1	-1	7.4	3320	96	2.0	-37	0.424
56-43.8656-106.0811-2-15-						0-W09020	11420	239	4916	29	-1	4.5	3.5	-169	-1	-1	8.6	2615	58	2.1	49	0.334
56-43.8861-106.1231-2-15-						0-W09021	23400	346	2230	58	-2	11.2	5.0	-243	-1	-1	12.7	4062	130	2.4	92	0.452
56-43.8986-106.1231-2-15-						0-W09022	12230	258	4117	26	-1	5.0	4.6	-186	-1	-1	10.3	2867	53	3.4	39	0.341
56-43.9131-106.0653-2-15-						0-W09023	19260	299	3525	-22	-2	6.1	3.2	-225	-1	-1	7.7	2835	73	2.8	-41	0.448
56-43.9006-106.0750-2-15-						0-W09024	14760	227	3543	39	-1	4.8	3.7	-163		-1	8.3	2725	63	2.0	49	0.416
56-43.8769-106.0353-2-15-						0-W09025	5781	232	4910	-19	-1	3.8	2.9	-199	-1	-1	8.6	2931	41	2.7	50	0.472
56-43.8672-106.0333-2-15-						0-W09026	14180	266	3509	38	-1	4.7	3.2	-173		-1	8.2	3070	62	2.4	38	0.398
56-43.8744-106.0228-2-15-						0-W09027	14070	317	3510	51	-1	7.1	6.0	-179	-1	-1	15.7	3271	62	4.8	76	0.252
56-43.9056-106.0583-2-15-						0-W09028	16250	393	7783	38	-1	4.7	4.6	-250	-1	-1	12.8	3407	55	3.1	-24	0.304
56-43.9700-106.0672-2-15-						0-W09029	14930	291	2990	-23	-2	5.7	2.5	-247	-1	-1	7.9	3071	85	1.9	51	0.475
56-43.9850-106.0642-2-15-						0-W09030	19570	239	5060	44	1	4.2	3.0	-173		-1	6.5	2576	44	2.2	-20	0.465
56-43.9769-106.0181-2-15-						0-W09031	22170	427	1793	53	-1	8.1	5.1	-216	-1	-1	11.3	3053	72	2.8	52	0.313
56-43.9347-106.1050-2-15-						0-W09032	16640	270	2472	29	-1	4.8	4.2	-189	-1	-1	8.7	2800	61	2.4	-37	0.448
56-43.9364-106.1025-2-15-						0-W09033	17220	317	2601	-19	-1	4.6	2.8	-221	-1	-1	6.5	2999	70	2.3	-35	0.625
56-43.9747-106.1667-2-15-						0-W09034	14000	243	2954	37	-1	5.2	3.8	245	-1	-1	8.6	2641	68	2.2	71	0.447
56-43.9650-106.1464-2-15-						0-W09035	18470	299	2969	54	1	7.9	5.3	-180	-1	-1	12.4	3085	76	3.6	68	0.294

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.9622-106.1475-2-15-						0-W09036-09/05/77-16-			22-		-	-	-	-	-	16-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.36
56-43.3133-107.0806-2-15-						0-W09039-09/06/77-10-			20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							4.67
56-43.3306-107.0653-2-15-						0-W09040-09/06/77-10-			20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							8.26
56-43.3397-107.0286-2-15-						0-W09041-09/06/77-11-			21-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							4.23
56-43.3503-107.0089-2-15-						0-W09042-09/06/77-11-			21-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							5.97
56-43.3158-106.9936-2-15-						0-W09043-09/06/77-11-			21-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							7.83
56-43.3475-106.9989-2-15-						0-W09044-09/06/77-11-			21-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							5.13
56-43.2833-107.0872-2-15-						0-W09045-09/06/77-12-			22-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.28
56-43.2711-107.0556-2-15-						0-W09046-09/06/77-12-			22-		-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							2.57
56-43.2667-107.0783-2-15-						0-W09047-09/06/77-12-			22-		-	-	-	-	-	4-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							2.84
56-43.2653-107.0517-2-15-						0-W09048-09/06/77-12-			22-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.51
56-43.3069-107.0344-2-15-						0-W09049-09/06/77-13-			23-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.40
56-43.3158-107.0064-2-15-						0-W09050-09/06/77-13-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							2.87
56-43.2783-107.1333-2-15-						0-W09051-09/06/77-13-			22-		-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.53
56-43.2414-107.0578-2-15-						0-W09052-09/06/77-13-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							4.43
56-43.2464-107.0803-2-15-						0-W09053-09/06/77-13-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	- -3-3-3-1-	-1-	-	-	-	-							4.40
56-43.2275-106.8828-2-15-						0-W09054-09/06/77-14-			22-		-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.85
56-43.2372-106.9172-2-15-						0-W09055-09/06/77-14-			22-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							4.58
56-43.2119-106.9078-2-15-						0-W09056-09/06/77-14-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							4.52
56-43.2194-106.9789-2-15-						0-W09057-09/06/77-14-			22-		-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							4.38
56-43.2272-107.0922-2-15-						0-W09058-09/06/77-15-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.81
56-43.2139-107.0892-2-15-						0-W09059-09/06/77-15-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.79
56-43.2167-107.1258-2-15-						0-W09060-09/06/77-15-			22-		-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.22
56-43.2392-107.1622-2-15-						0-W09061-09/06/77-16-			22-		-	-	-	-	-	14-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.36
56-43.2211-107.1603-2-15-						0-W09062-09/06/77-16-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							4.09
56-43.1922-107.1783-2-15-						0-W09063-09/06/77-16-			22-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.13
56-43.1972-107.1994-2-15-						0-W09064-09/06/77-16-			22-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.05
56-43.1978-107.2039-2-15-						0-W09065-09/06/77-17-			21-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.03
56-43.1969-107.4336-2-15-						0-W09066-09/06/77-16-			21-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.91
56-43.2031-107.4128-2-15-						0-W09067-09/06/77-16-			21-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.06
56-43.2250-107.4167-2-15-						0-W09068-09/06/77-16-			21-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.55
56-43.2172-107.4467-2-15-						0-W09069-09/06/77-17-			20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.27
56-43.2119-107.4722-2-15-						0-W09070-09/06/77-17-			20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.42
56-43.2183-107.4972-2-15-						0-W09071-09/06/77-17-			20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							2.93
56-43.1825-107.3722-2-15-						0-W09073-09/06/77-17-			20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							2.94
56-43.2158-107.3714-2-15-						0-W09075-09/06/77-18-			20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.02
56-43.1989-107.3619-2-15-						0-W09076-09/06/77-18-			20-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.87
56-43.1894-107.3361-2-15-						0-W09077-09/06/77-18-			20-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							2.65
56-43.1836-107.3167-2-15-						0-W09078-09/06/77-18-			20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							4.17
56-43.2456-107.3278-2-15-						0-W09079-09/06/77-18-			20-		-	-	-	-	-	16-1-7-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							1.53
56-43.2211-107.3031-2-15-						0-W09081-09/06/77-19-			19-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							2.72
56-43.0533-107.0958-2-15-						0-W09083-09/07/77- 7-			18-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							4.02
56-43.0467-107.0806-2-15-						0-W09084-09/07/77- 7-			18-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.99
56-43.0419-107.0428-2-15-						0-W09085-09/07/77- 7-			18-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							2.79
56-43.0075-107.0767-2-11-						0-W09086-09/07/77- 8-			19-	14.0-	-	-	6.9-	3600-	-	6-1-7-4-6-3-3-1-		-3-3-3-1-	-1-	-	-	-	-							4.54
56-43.0178-107.0542-2-15-						0-W09087-09/07/77- 8-			19-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.32
56-43.0253-107.0694-2-11-						0-W09088-09/07/77- 8-			19-	13.0-	-	-	6.9-	3000-	-	11-1-7-4-6-3-3-1-		-3-3-3-1-	-1-	-	-	-	-							3.26
56-43.0228-107.0786-2-15-						0-W09089-09/07/77- 8-			19-		-	-	-	-	-	11-1-7-4-6-	-	- -2-3-3-3-1-	-1-	-	-	-	-							2.43
56-43.0247-107.0036-2-15-						0-W09090-09/07/77- 9-			20-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							2.39
56-43.0222-106.9528-2-15-						0-W09092-09/07/77- 9-			20-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							2.78
56-43.0417-106.8850-2-15-						0-W09095-09/07/77-10-			21-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-							3.47

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.9622-106.1475-2-15-						0-W09034	-5	-5	-5	21	-20	-15	9	-10	-15	2	26
56-43.3133-107.0806-2-15-						0-W09039	-5	-5	-5	42	-20	24	-5	-10	-15	3	43
56-43.3306-107.0653-2-15-						0-W09040	-5	-5	-5	38	-20	-15	15	-10	-15	3	34
56-43.3397-107.0286-2-15-						0-W09041	-5	-5	-5	30	-20	-15	12	-10	-15	2	39
56-43.3503-107.0089-2-15-						0-W09042	-5	-5	-5	39	-20	28	13	-10	-15	3	41
56-43.3158-106.9936-2-15-						0-W09043	-5	-5	-5	26	-20	-15	15	-10	-15	3	37
56-43.3475-106.9989-2-15-						0-W09044	-5	-5	-5	23	-20	27	14	-10	-15	2	44
56-43.2833-107.0872-2-15-						0-W09045	-5	-5	-5	27	-20	22	7	-10	-15	2	34
56-43.2711-107.0556-2-15-						0-W09046	-5	-5	-5	21	-20	-15	7	-10	-15	2	30
56-43.2667-107.0783-2-15-						0-W09047	-5	-5	-5	11	-20	-15	7	-10	-15	2	22
56-43.2653-107.0517-2-15-						0-W09048	-5	-5	-5	17	-20	-15	8	-10	-15	2	45
56-43.3069-107.0344-2-15-						0-W09049	-5	-5	-5	12	-20	-15	-5	-10	-15	2	26
56-43.3158-107.0064-2-15-						0-W09050	-5	-5	-5	16	-20	-15	10	-10	-15	2	44
56-43.2783-107.1333-2-15-						0-W09051	-5	-5	-5	12	-20	28	7	-10	-15	3	43
56-43.2414-107.0578-2-15-						0-W09052	-5	-5	-5	23	-20	15	16	-10	-15	2	40
56-43.2464-107.0803-2-15-						0-W09053	-5	-5	-5	18	-20	-15	5	-10	-15	2	28
56-43.2275-106.8828-2-15-						0-W09054	-5	-5	-5	26	-20	21	9	-10	-15	3	34
56-43.2372-106.9172-2-15-						0-W09055	-5	-5	-5	36	-20	27	14	-10	-15	3	37
56-43.2119-106.9078-2-15-						0-W09056	-5	-5	-5	35	-20	21	10	-10	-15	2	27
56-43.2194-106.9789-2-15-						0-W09057	-5	-5	-5	39	-20	42	7	-10	-15	3	40
56-43.2222-107.0922-2-15-						0-W09058	-5	6	-5	14	-20	-15	10	-10	15	2	20
56-43.2139-107.0892-2-15-						0-W09059	-5	-5	-5	19	-20	-15	9	-10	-15	3	29
56-43.2167-107.1258-2-15-						0-W09060	-5	-5	-5	20	-20	18	6	-10	-15	2	36
56-43.2392-107.1622-2-15-						0-W09061	-5	-5	-5	21	-20	-15	5	-10	-15	3	24
56-43.2211-107.1603-2-15-						0-W09062	-5	-5	-5	14	-20	-15	12	-10	-15	3	24
56-43.1922-107.1783-2-15-						0-W09063	-5	-5	-5	21	-20	-15	8	-10	-15	3	38
56-43.1972-107.1994-2-15-						0-W09064	-5	-5	-5	12	-20	-15	14	-10	-15	2	38
56-43.1978-107.2039-2-15-						0-W09065	-5	-5	-5	-10	-20	-15	13	-10	-15	2	35
56-43.1969-107.4336-2-15-						0-W09066	-5	-5	-5	15	-20	-15	15	-10	-15	2	26
56-43.2031-107.4178-2-15-						0-W09067	-5	-5	-5	20	-20	16	10	-10	-15	2	46
56-43.2250-107.4167-2-15-						0-W09068	-5	-5	-5	28	-20	21	14	-10	-15	3	70
56-43.2172-107.4467-2-15-						0-W09069	-5	-5	-5	21	-20	-15	9	-10	-15	2	35
56-43.2119-107.4722-2-15-						0-W09070	-5	-5	-5	30	-20	18	13	-10	-15	3	47
56-43.2183-107.4972-2-15-						0-W09071	-5	-5	-5	20	-20	16	10	-10	-15	2	32
56-43.1825-107.3722-2-15-						0-W09073	-5	-5	-5	20	-20	-15	5	-10	-15	2	25
56-43.2158-107.3714-2-15-						0-W09075	-5	-5	-5	-10	-20	-15	5	-10	-15	2	46
56-43.1989-107.3619-2-15-						0-W09076	-5	-5	-5	22	-20	18	15	-10	-15	1	25
56-43.1894-107.3361-2-15-						0-W09077	-5	-5	-5	22	-20	-15	5	-10	-15	2	49
56-43.1836-107.3167-2-15-						0-W09078	-5	-5	-5	22	-20	-15	-5	-10	-15	1	32
56-43.2456-107.3278-2-15-						0-W09079	-5	-5	-5	19	-20	-15	-5	-10	-15	2	30
56-43.2211-107.3031-2-15-						0-W09081	-5	-5	-5	12	-20	-15	11	-10	-15	2	20
56-43.0533-107.0958-2-15-						0-W09083	-5	-5	-5	18	-20	-15	7	-10	-15	2	19
56-43.0467-107.0806-2-15-						0-W09084	-5	-5	-5	14	-20	-15	11	-10	-15	2	44
56-43.0419-107.0428-2-15-						0-W09085	-5	-5	-5	-10	-20	23	12	-10	-15	2	34
56-43.0075-107.0767-2-11-						0-W09086	-5	-5	-5	10	-20	-15	-5	-10	-15	1	15
56-43.0178-107.0542-2-15-						0-W09087	-5	-5	-5	16	-20	-15	6	-10	-15	2	25
56-43.0253-107.0694-2-11-						0-W09088	-5	-5	-5	11	-20	-15	-5	-10	-15	1	10
56-43.0228-107.0786-2-15-						0-W09089	-5	-5	-5	11	-20	-15	7	-10	-15	1	10
56-43.0247-107.0036-2-15-						0-W09090	-5	-5	-5	15	-20	21	-5	-10	-15	1	14
56-43.0222-106.9528-2-15-						0-W09092	-5	-5	-5	19	-20	-15	10	-10	-15	1	22
56-43.0417-106.8850-2-15-						0-W09095	-5	-5	-5	24	-20	-15	17	-10	-15	2	47

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.9622-	106.1475-2-	15-		0-	W09036	44480	-0.03	579	14380	48	-45	5.7	29	2.3	4	0.6	9041	6.8	15230	25	0.2
56-	43.3133-	107.0806-2-	15-		0-	W09039	60250	-0.05	434	3396	47	-78	11.3	40	2.7	3	0.7	21670	3.9	7764	25	0.3
56-	43.3306-	107.0653-2-	15-		0-	W09040	54400	-0.03	515	12480	48	-50	8.4	30	3.8	4	0.7	15330	4.2	14820	28	0.3
56-	43.3397-	107.0286-2-	15-		0-	W09041	68620	-0.04	396	3538	63	-57	11.5	55	4.2	5	1.1	27190	6.2	1493C	38	0.4
56-	43.3503-	107.0089-2-	15-		0-	W09042	63690	-0.05	521	8578	77	-66	8.9	45	4.2	5	1.1	16790	6.6	14770	37	0.4
56-	43.3158-	106.9936-2-	15-		0-	W09043	57370	-0.05	441	14450	53	-64	7.5	33	3.1	3	0.8	15720	4.8	15720	31	0.4
56-	43.3475-	106.9989-2-	15-		0-	W09044	42490	-0.03	448	6657	51	-150	6.8	33	2.6	3	0.6	11360	6.6	8552	26	0.3
56-	43.2833-	107.0872-2-	15-		0-	W09045	42490	-0.03	478	23990	45	-53	6.1	33	2.1	3	0.8	12080	6.8	12670	26	0.3
56-	43.2711-	107.0556-2-	15-		0-	W09046	39750	-0.03	633	30510	48	-60	5.7	28	1.8	3	0.8	9796	5.7	13380	27	0.3
56-	43.2667-	107.0783-2-	15-		0-	W09047	36760	-0.04	511	26550	33	-61	4.0	21	1.3	2	0.7	8550	8.5	11970	24	0.3
56-	43.2653-	107.0517-2-	15-		0-	W09048	57520	-0.03	686	27520	52	-48	4.8	46	2.9	3	0.9	10780	5.6	17110	27	0.3
56-	43.3069-	107.0344-2-	15-		0-	W09049	40800	-0.03	748	6279	52	-49	3.5	25	1.8	3	0.9	7281	14.1	12320	30	0.3
56-	43.3158-	107.0064-2-	15-		0-	W09050	49640	-0.04	559	9330	50	-48	6.0	42	3.6	3	1.0	11580	4.8	1611C	28	0.3
56-	43.2783-	107.1333-2-	15-		0-	W09051	60670	-0.05	651	26600	43	-58	4.8	41	3.5	3	1.0	11340	4.3	14900	30	0.3
56-	43.2414-	107.0578-2-	15-		0-	W09052	52130	-0.04	671	3326	52	-58	8.2	36	2.9	4	0.9	17970	7.7	11610	31	0.4
56-	43.2464-	107.0803-2-	15-		0-	W09053	50740	-0.03	733	7258	61	-54	5.4	34	3.3	4	0.9	11750	9.3	13040	34	0.4
56-	43.2275-	106.8828-2-	15-		0-	W09054	54280	-0.04	871	30750	63	-59	6.5	51	3.2	4	1.0	12780	8.4	16290	35	0.3
56-	43.2372-	106.9172-2-	15-		0-	W09055	65410	-0.05	980	81240	50	-68	6.4	72	3.7	3	0.7	13040	3.0	14160	27	0.3
56-	43.2119-	106.9078-2-	15-		0-	W09056	60380	-0.04	1034	83080	45	-54	5.5	61	3.2	3	0.5	12380	3.1	12750	30	0.2
56-	43.2194-	106.9789-2-	15-		0-	W09057	58470	-0.04	599	114300	48	-74	7.1	75	4.4	4	0.7	13690	2.3	14350	30	0.3
56-	43.2222-	107.0922-2-	15-		0-	W09058	45540	-0.03	870	6941	64	-56	5.0	35	2.5	3	0.8	10590	6.6	13970	33	0.3
56-	43.2139-	107.0892-2-	15-		0-	W09059	43240	-0.04	902	7136	44	-64	4.2	23	1.7	3	0.7	9288	6.8	12160	31	0.3
56-	43.2167-	107.1258-2-	15-		0-	W09060	52380	-0.03	651	14040	56	-50	4.4	30	2.2	3	0.9	8837	7.8	16070	34	0.3
56-	43.2392-	107.1622-2-	15-		0-	W09061	46300	-0.03	739	11380	45	-53	5.9	26	2.4	3	0.9	14100	6.1	11930	28	0.3
56-	43.2211-	107.1603-2-	15-		0-	W09062	47870	-0.04	619	11700	64	-69	8.7	35	3.7	3	0.8	21340	5.9	12090	30	0.3
56-	43.1922-	107.1783-2-	15-		0-	W09063	57180	-0.04	537	10660	46	-63	4.2	25	2.6	3	0.8	9744	7.1	18220	28	0.2
56-	43.1972-	107.1994-2-	15-		0-	W09064	54470	-0.03	604	9410	52	-52	4.1	32	2.8	3	0.7	9620	6.3	17260	28	0.3
56-	43.1978-	107.2039-2-	15-		0-	W09065	58830	-0.03	584	9520	58	111	5.1	42	3.2	4	0.9	10880	7.6	17630	33	0.3
56-	43.1969-	107.4336-2-	15-		0-	W09066	49460	-0.04	694	22320	85	131	5.2	49	1.5	4	0.9	10250	17.1	14630	46	0.5
56-	43.2031-	107.4128-2-	15-		0-	W09067	56510	-0.05	650	22740	47	-76	6.2	36	2.7	3	1.1	11550	7.4	19060	29	0.3
56-	43.2250-	107.4167-2-	15-		0-	W09068	65670	-0.04	644	31390	57	127	7.9	61	4.1	4	0.9	15700	4.9	18550	33	0.3
56-	43.2172-	107.4467-2-	15-		0-	W09069	57740	-0.03	656	27610	55	111	7.0	49	2.5	3	0.9	12500	7.5	17040	32	0.3
56-	43.2119-	107.4722-2-	15-		0-	W09070	62580	-0.05	670	30660	71	-83	10.3	69	4.7	4	1.0	17810	4.7	18200	37	0.4
56-	43.2183-	107.4972-2-	15-		0-	W09071	51850	-0.04	647	21850	50	-72	4.9	44	2.3	3	0.9	9405	7.2	16290	29	0.3
56-	43.1825-	107.3722-2-	15-		0-	W09073	52210	-0.03	531	34270	51	-61	6.2	46	2.2	4	0.7	12450	10.6	18110	30	0.4
56-	43.2158-	107.3714-2-	15-		0-	W09075	42770	-0.03	605	31120	54	-64	5.3	39	-0.9	4	0.9	8860	12.7	15300	31	0.4
56-	43.1989-	107.3619-2-	15-		0-	W09076	59370	-0.04	728	22310	69	-71	8.4	54	3.8	4	1.1	15170	6.6	19950	36	0.4
56-	43.1894-	107.3361-2-	15-		0-	W09077	37990	-0.04	419	38750	34	-66	4.0	24	-1.0	2	0.6	7499	6.7	12850	20	0.3
56-	43.1836-	107.3167-2-	15-		0-	W09078	57790	-0.04	835	21440	57	-61	7.6	49	3.1	4	0.7	12630	6.2	17950	34	0.3
56-	43.2456-	107.3278-2-	15-		0-	W09079	34840	-0.03	334	46180	32	-54	4.6	30	1.7	3	0.7	7737	4.5	14530	16	0.2
56-	43.2211-	107.3031-2-	15-		0-	W09081	33840	-0.03	473	54560	41	169	5.0	34	1.6	3	0.7	8518	10.7	14180	22	0.3
56-	43.0533-	107.0958-2-	15-		0-	W09083	39860	-0.04	494	5093	62	-56	4.0	33	1.7	4	0.9	6900	14.8	12880	40	0.4
56-	43.0467-	107.0806-2-	15-		0-	W09084	50040	-0.04	586	35010	61	-69	6.2	42	3.0	4	0.8	13030	11.2	17030	35	0.4
56-	43.0419-	107.0428-2-	15-		0-	W09085	43070	-0.03	459	26820	46	145	4.5	35	2.3	3	0.6	9583	6.9	15320	25	0.3
56-	43.0075-	107.0767-2-	11-		0-	W09086	24910	-0.03	750	4354	114	104	4.4	39	1.6	5	1.1	7059	27.2	10560	60	0.6
56-	43.0178-	107.0542-2-	15-		0-	W09087	34310	-0.04	460	7109	37	379	3.4	26	1.3	3	0.7	4913	9.8	10900	23	0.3
56-	43.0253-	107.0694-2-	11-		0-	W09088	21580	-0.03	772	4852	59	55	3.1	23	1.0	4	0.5	5138	16.0	9166	34	0.4
56-	43.0228-	107.0786-2-	15-		0-	W09089	23570	-0.03	528	4667	48	55	3.2	21	1.3	3	0.7	4615	12.3	10300	27	0.3
56-	43.0247-	107.0036-2-	15-		0-	W09090	29320	-0.03	523	8762	49	-45	4.5	25	1.7	3	0.6	5422	9.2	12550	24	0.3
56-	43.0222-	106.9528-2-	15-		0-	W09092	46490	-0.03	603	5636	50	-56	4.5	35	2.4	3	0.7	8007	7.6	15570	28	0.3
56-	43.0417-	106.8850-2-	15-		0-	W09095	53730	-0.04	592	15740	64	1181	7.3	57	3.4	4	1.0	12700	7.6	19120	36	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.9622-106.1475-2-15-					0-	W09036	12910	275	3559	36	1	4.2	3.7	-194	-1	-1	7.6	2860	59	2.7	-34	0.442
56-43.3133-107.0806-2-15-					0-	W09039	8643	1346	2735	-24	-2	6.8	3.2	-431	-1	-1	7.2	2898	87	2.1	-41	0.649
56-43.3306-107.0653-2-15-					0-	W09040	10270	500	4248	35	1	5.0	4.1	-237	-1	1	10.0	2038	71	2.0	49	0.826
56-43.3397-107.0286-2-15-					0-	W09041	11440	929	3385	53	-1	10.5	5.8	-301	1	-1	11.2	3445	97	3.9	122	0.378
56-43.3503-107.0089-2-15-					0-	W09042	10810	420	5148	39	-2	7.7	6.8	-283	-1	-1	13.0	3534	75	3.7	84	0.459
56-43.3158-106.9936-2-15-					0-	W09043	11340	551	4035	47	-2	5.9	4.1	-306	-1	-1	11.5	2481	81	3.2	110	0.681
56-43.3475-106.9989-2-15-					0-	W09044	-5903	924	40460	29	-1	4.2	4.2	-444	-1	-1	8.7	2263	49	2.6	38	0.590
56-43.2833-107.0872-2-15-					0-	W09045	10940	490	6013	37	-1	4.7	3.6	-220		-1	8.5	2085	45	2.5	67	0.386
56-43.2711-107.0556-2-15-					0-	W09046	13010	364	6720	43	-1	4.1	3.7	-226	-1	-1	7.0	2172	42	2.1	44	0.367
56-43.2667-107.0783-2-15-					0-	W09047	10210	384	6000	-15	-1	3.5	2.3	-240	-1	-1	5.5	1911	38	2.0	-23	0.516
56-43.2653-107.0517-2-15-					0-	W09048	11190	184	4659	36	-1	6.1	3.0	-172		-1	8.7	2925	149	1.9	72	0.403
56-43.3069-107.0344-2-15-					0-	W09049	5874	127	8559	38	-1	3.4	3.5	177		-1	8.7	1963	41	2.9	55	0.391
56-43.3158-107.0064-2-15-					0-	W09050	11680	136	5562	43	-1	5.2	4.4	-169		-1	9.3	2110	81	2.3	-33	0.309
56-43.2783-107.1333-2-15-					0-	W09051	13400	168	4689	48	-2	6.2	2.2	-208	-1	-1	7.7	3036	153	1.7	-45	0.458
56-43.2414-107.0578-2-15-					0-	W09052	8199	780	4430	36	-1	6.2	4.1	-294		-1	9.4	2834	68	2.6	72	0.471
56-43.2464-107.0803-2-15-					0-	W09053	6533	327	7133	43	-1	4.5	4.3	-197	1	-1	11.3	2314	44	2.5	-58	0.389
56-43.2275-106.8828-2-15-					0-	W09054	13990	208	7160	43	2	5.6	5.0	278	-1	-1	9.7	2470	126	2.6	92	0.397
56-43.2372-106.9172-2-15-					0-	W09055	18660	209	5259	-23	2	7.0	3.0	527	-1	-1	6.1	2967	244	-1.2	94	0.751
56-43.2119-106.9078-2-15-					0-	W09056	15790	147	5029	46	-1	6.4	3.3	541	-1	-1	7.2	2987	198	1.9	83	0.628
56-43.2194-106.9789-2-15-					0-	W09057	18880	197	10900	38	-1	8.0	3.6	507	-1	-1	7.7	2850	208	2.4	116	0.569
56-43.2222-107.0922-2-15-					0-	W09058	5099	289	6612	36	-1	3.7	5.0	-207	-1	-1	11.0	1323	42	2.5	63	0.346
56-43.2139-107.0892-2-15-					0-	W09059	4518	361	7236	27	-1	3.1	3.0	-243	-1	-1	8.3	1742	40	2.6	49	0.457
56-43.2167-107.1258-2-15-					0-	W09060	9488	173	7316	38	-1	4.3	3.5	-164		-1	9.2	2954	59	2.1	-20	0.350
56-43.2392-107.1622-2-15-					0-	W09061	8435	488	5838	31	-1	4.9	3.7	-222	-1	-1	8.1	2151	52	2.2	50	0.415
56-43.2211-107.1603-2-15-					0-	W09062	6077	890	4610	-17	-1	5.6	5.4	-337	-1	-1	10.4	2163	54	2.8	81	0.393
56-43.1922-107.1783-2-15-					0-	W09063	13270	136	7891	42	-1	4.8	1.9	-198	-1	-1	8.1	2631	61	3.0	37	0.386
56-43.1972-107.1994-2-15-					0-	W09064	13010	133	7884	32	-1	4.6	3.7	241		-1	8.4	2627	60	2.1	34	0.363
56-43.1978-107.2039-2-15-					0-	W09065	11260	142	8114	46	-1	5.6	4.0	-161	-1	-1	10.1	2710	63	2.5	-54	0.300
56-43.1969-107.4336-2-15-					0-	W09066	10310	396	12690	29	-1	4.9	5.9	-264	-1	-1	15.5	3232	42	3.6	75	0.252
56-43.2031-107.4128-2-15-					0-	W09067	15850	392	9148	45	-1	5.5	2.7	-281	-1	-1	8.7	2771	47	2.5	-32	0.352
56-43.2250-107.4167-2-15-					0-	W09068	22410	473	8400	54	-1	6.9	4.0	-271	-1	-1	10.4	3488	65	2.7	74	0.341
56-43.2172-107.4467-2-15-					0-	W09069	17930	384	11220	38	-1	6.0	3.9	282	-1	-1	9.4	2797	46	3.0	52	0.348
56-43.2119-107.4722-2-15-					0-	W09070	24090	490	8239	-22	-2	7.7	5.9	-327	-1	-1	11.8	3733	65	3.4	122	0.290
56-43.2183-107.4972-2-15-					0-	W09071	11300	346	9473	-17	-1	4.8	2.8	-254	-1	-1	9.2	2608	43	2.5	50	0.318
56-43.1825-107.3722-2-15-					0-	W09073	18920	402	7878	39	-1	5.8	4.0	-227	-1	-1	10.4	3485	50	3.2	-19	0.283
56-43.2158-107.3714-2-15-					0-	W09075	11530	347	10790	29	-1	5.0	3.7	-217		-1	10.8	3453	32	3.3	34	0.280
56-43.1989-107.3619-2-15-					0-	W09076	17410	364	8152	46	-1	6.7	5.8	-261	-1	-1	11.1	3111	54	2.8	88	0.349
56-43.1894-107.3361-2-15-					0-	W09077	13310	334	6941	-16	-1	3.7	2.0	-245	-1	-1	6.0	1765	33	-0.9	-25	0.442
56-43.1836-107.3167-2-15-					0-	W09078	17420	309	8607	40	-1	6.0	3.5	-225		-1	9.9	3252	59	3.5	74	0.421
56-43.2456-107.3278-2-15-					0-	W09079	20920	308	6524	26	-1	4.4	2.7	-194		-1	4.8	2413	31	1.8	23	0.319
56-43.2211-107.3031-2-15-					0-	W09081	24480	344	9480	32	-1	4.2	4.1	-245	-1	-1	6.2	2268	32	2.7	51	0.439
56-43.0533-107.0958-2-15-					0-	W09083	4723	277	5681	-16	-1	3.7	4.2	-215	-1	-1	12.5	2746	43	2.8	-32	0.322
56-43.0467-107.0806-2-15-					0-	W09084	32710	569	6880	48	-1	5.8	4.6	262	-1	-1	10.2	3307	90	3.3	60	0.391
56-43.0419-107.0428-2-15-					0-	W09085	28740	200	8925	37	-1	4.9	3.3	-173		-1	6.4	2098	55	2.0	67	0.436
56-43.0075-107.0767-2-11-					0-	W09086	4480	223	4263	17	2	3.3	8.0	-183	-1	-1	21.4	3599	37	4.4	57	0.212
56-43.0178-107.0542-2-15-					0-	W09087	7491	131	11250	27	-1	3.3	2.0	-209	-1	-1	6.1	2106	47	2.1	-23	0.544
56-43.0253-107.0694-2-11-					0-	W09088	3168	249	3295	22	-1	2.5	4.5	-163		1	11.0	2922	38	2.9	23	0.296
56-43.0228-107.0786-2-15-					0-	W09089	3537	157	3449	30	-1	2.5	3.0	-129			7.4	2103	30	2.3	26	0.328
56-43.0247-107.0036-2-15-					0-	W09090	6986	147	4268	22	-1	2.8	3.5	-160			7.0	2009	38	2.5	34	0.341
56-43.0222-106.9528-2-15-					0-	W09092	7408	273	8464	28	-1	4.1	3.1	-194		-1	7.3	2400	53	2.5	40	0.381
56-43.0417-106.8850-2-15-					0-	W09095	14810	309	13170	49	-1	6.5	4.1	-234	-1	-1	10.2	3273	75	3.1	61	0.340

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples (1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.0161-106.8983-2-15-						0-W09096-09/07/77-11-			22-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.52
56-43.0131-106.8222-2-15-						0-W09097-09/07/77-11-			22-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.83
56-43.0106-106.7844-2-15-						0-W09098-09/07/77-11-			22-		-	-	-	-	-	18-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.71
56-43.0453-106.8578-2-15-						0-W09100-09/07/77-12-			22-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.84
56-43.0539-106.7894-2-15-						0-W09101-09/07/77-13-			22-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.19
56-43.0733-106.8444-2-15-						0-W09102-09/07/77-13-			22-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.54
56-43.0728-106.8667-2-15-						0-W09103-09/07/77-13-			22-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.51
56-43.0761-106.7967-2-15-						0-W09104-09/07/77-14-			22-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.34
56-43.2417-106.7753-2-15-						0-W09105-09/07/77-14-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.14
56-43.2128-106.7900-2-15-						0-W09106-09/07/77-14-			22-		-	-	-	-	-	-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.55
56-43.2000-106.8558-2-15-						0-W09108-09/07/77-15-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.39
56-43.1939-106.8644-2-15-						0-W09109-09/07/77-15-			22-		-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.43
56-43.1931-106.7925-2-15-						0-W09110-09/07/77-15-			22-		-	-	-	-	-	20-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.42
56-43.1953-106.7850-2-15-						0-W09111-09/07/77-15-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.23
56-43.1775-106.7806-2-15-						0-W09112-09/07/77-15-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.40
56-43.1694-106.7814-2-15-						0-W09114-09/07/77-16-			22-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.65
56-43.1561-106.7958-2-15-						0-W09115-09/07/77-16-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.36
56-43.1556-106.7939-2-15-						0-W09116-09/07/77-16-			22-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.88
56-43.1400-106.8706-2-15-						0-W09117-09/07/77-16-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.78
56-43.1383-106.8717-2-15-						0-W09118-09/07/77-16-			22-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.69
56-43.0861-106.7722-2-15-						0-W09119-09/07/77-16-			22-		-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
56-43.0733-106.7550-2-15-						0-W09120-09/07/77-16-			22-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.63
56-43.1219-106.7111-2-15-						0-W09121-09/07/77-17-			21-		-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.62
56-43.0769-106.7472-2-15-						0-W09122-09/07/77-17-			21-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.32
56-43.0575-106.7214-2-15-						0-W09123-09/07/77-17-			21-		-	-	-	-	-	16-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31
56-43.0175-106.6361-2-15-						0-W09125-09/07/77-18-			21-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.14
56-43.3822-107.1964-2-15-						0-W09127-09/08/77- 8-			18-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.79
56-43.3714-107.1972-2-15-						0-W09128-09/08/77- 8-			18-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.91
56-43.4217-107.1917-2-15-						0-W09129-09/08/77- 8-			18-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.47
56-43.4250-107.1908-2-12-						0-W09130-09/08/77- 9-			19-	9.0-	-	-	5.7-	120-		18-1-7-4-6-3-3-1-		-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.78
56-43.4631-107.2222-2-12-						0-W09132-09/08/77- 9-			19-	10.0-	-	-	5.4-	50-		16-1-7-4-6-3-3-1-		-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.68
56-43.4700-107.2256-2-11-						0-W09133-09/08/77- 9-			19-	9.0-	-	-	5.4-	40-		18-1-7-5-6-3-3-1-		-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.84
56-43.5000-107.1722-2-15-						0-W09136-09/08/77-10-			20-		-	-	-	-	-	20-1-7-5-6-	-1-	-2-4-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.84
56-43.4814-107.1108-2-11-						0-W09137-09/08/77-11-			20-	8.0-C-	-	-	6.2-	320-		13-1-7-5-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.59
56-43.4844-107.0672-2-11-						0-W09138-09/08/77-11-			20-	8.0-C-	-	-	6.2-	300-		13-1-7-5-6-3-3-1-		-4-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.71
56-43.4481-107.1417-2-11-						0-W09139-09/08/77-11-			20-	8.0-	-	-	6.5-	350-		16-1-7-5-6-3-3-1-		-3-3-1-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.92
56-43.4300-107.1367-2-15-						0-W09140-09/08/77-11-			20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66
56-43.4342-107.1461-2-12-						0-W09141-09/08/77-11-			20-	10.0-	-	-	6.5-	380-		11-1-7-5-6-3-3-1-		-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.77
56-43.4467-107.1167-2-11-						0-W09142-09/08/77-12-			20-	9.0-	-	-	6.5-	400-		18-1-7-5-6-3-3-1-		-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-43.4569-107.1178-2-15-						0-W09143-09/08/77-12-			20-		-	-	-	-	-	11-1-7-5-4-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.18
56-43.4586-107.0994-2-12-						0-W09144-09/08/77-12-			20-	10.0-	-	-	6.3-	475-		11-1-7-5-6-3-3-1-		-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.56
56-43.4489-107.0958-2-11-						0-W09145-09/08/77-13-			20-	10.0-	-	-	6.3-	480-		11-1-7-5-6-3-2-1-		-4-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.68
56-43.4689-107.0517-2-15-						0-W09146-09/08/77-13-			20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.22
56-43.4436-107.0025-2-15-						0-W09147-09/08/77-13-			20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
56-43.5250-106.1000-2-15-						0-W09148-09/11/77-11-			20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.64
56-43.6350-106.1117-2-15-						0-W09149-09/11/77-11-			20-		-	-	-	-	-	6-1-7-5-6-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.06
56-43.7106-106.0617-2-15-						0-W09152-09/11/77-11-			20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.43
56-43.6919-106.0331-2-15-						0-W09154-09/11/77-12-			20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.73
56-43.7094-106.1133-2-15-						0-W09159-09/11/77-13-			20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.73
56-43.6611-106.1483-2-15-						0-W09160-09/11/77-13-			20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.97
56-43.6578-106.1569-2-15-						0-W09161-09/11/77-13-			20-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.47

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.0141-106.8983-2-15-						0-W09096	-5	-5	-5	15	-20	-15	12	-10	-15	2	36
56-43.0131-106.8222-2-15-						0-W09097	-5	-5	-5	22	-20	17	16	-10	-15	2	54
56-43.0106-106.7844-2-15-						0-W09098	-5	-5	-5	30	-20	19	10	-10	-15	2	39
56-43.0453-106.8578-2-15-						0-W09100	-5	-5	-5	18	-20	20	10	-10	-15	2	43
56-43.0539-106.7894-2-15-						0-W09101	-5	-5	-5	-10	-20	-15	6	-10	-15	2	23
56-43.0733-106.8444-2-15-						0-W09102	-5	-5	-5	11	-20	-15	7	-10	-15	2	28
56-43.0728-106.8667-2-15-						0-W09103	-5	-5	-5	14	-20	-15	9	-10	-15	2	31
56-43.0761-106.7967-2-15-						0-W09104	-5	-5	-5	17	-20	-15	15	-10	-15	2	32
56-43.2417-106.7753-2-15-						0-W09105	-5	-5	-5	30	-20	23	8	-10	-15	3	63
56-43.2128-106.7900-2-15-						0-W09106	-5	-5	-5	15	-20	-15	7	-10	-15	2	46
56-43.2000-106.8558-2-15-						0-W09108	-5	-5	-5	26	-20	30	11	-10	-15	2	45
56-43.1939-106.8644-2-15-						0-W09109	-5	-5	-5	43	-20	28	20	-10	-15	2	44
56-43.1931-106.7925-2-15-						0-W09110	-5	-5	-5	16	-20	-15	12	-10	-15	2	47
56-43.1953-106.7850-2-15-						0-W09111	-5	-5	-5	25	-20	16	13	-10	-15	3	86
56-43.1775-106.7806-2-15-						0-W09112	-5	-5	-5	28	-20	37	15	-10	-15	3	93
56-43.1694-106.7814-2-15-						0-W09114	-5	-5	-5	33	-20	41	12	-10	-15	3	93
56-43.1561-106.7958-2-15-						0-W09115	-5	-5	-5	23	-20	23	11	-10	-15	2	82
56-43.1556-106.7939-2-15-						0-W09116	-5	-5	-5	28	-20	25	13	-10	-15	2	85
56-43.1400-106.8706-2-15-						0-W09117	-5	-5	-5	13	-20	-15	5	-10	-15	2	43
56-43.1383-106.8717-2-15-						0-W09118	-5	7	-5	24	-20	-15	-5	-10	-15	2	32
56-43.0861-106.7722-2-15-						0-W09119	-5	-5	-5	19	-20	28	19	-10	-15	2	47
56-43.0733-106.7550-2-15-						0-W09120	-5	-5	-5	25	-20	-15	9	-10	-15	2	37
56-43.1219-106.7111-2-15-						0-W09121	-5	-5	-5	16	-20	-15	5	-10	-15	2	41
56-43.0769-106.7472-2-15-						0-W09122	-5	-5	-5	21	-20	-15	20	-10	-15	1	30
56-43.0575-106.7214-2-15-						0-W09123	-5	-5	-5	20	-20	-15	14	-10	-15	1	23
56-43.0175-106.6361-2-15-						0-W09125	-5	-5	-5	13	-20	-15	6	-10	-15	1	15
56-43.3822-107.1964-2-15-						0-W09127	-5	-5	-5	33	-20	31	17	-10	-15	2	28
56-43.3714-107.1972-2-15-						0-W09128	-5	-5	-5	31	-20	20	12	-10	-15	-1	44
56-43.4217-107.1917-2-15-						0-W09129	-5	-5	-5	31	-20	35	8	-10	-15	2	31
56-43.4250-107.1908-2-12-						0-W09130	-5	-5	-5	31	-20	74	6	-10	-15	1	14
56-43.4631-107.2222-2-12-						0-W09132	-5	-5	-5	16	-20	-15	12	-10	-15	1	19
56-43.4700-107.2256-2-11-						0-W09133	-5	-5	-5	24	-20	-15	7	-10	-15	2	32
56-43.5000-107.1722-2-15-						0-W09136	-5	-5	-5	25	-20	-15	12	-10	-15	2	29
56-43.4814-107.1108-2-11-						0-W09137	-5	-5	-5	20	-20	-15	8	-10	-15	2	28
56-43.4844-107.0672-2-11-						0-W09138	-5	-5	-5	20	-20	27	11	-10	-15	1	33
56-43.4481-107.1417-2-11-						0-W09139	-5	-5	-5	16	-20	-15	16	-10	-15	2	31
56-43.4300-107.1367-2-15-						0-W09140	-5	-5	-5	14	-20	15	13	-10	-15	2	28
56-43.4342-107.1461-2-12-						0-W09141	-5	6	-5	16	-20	-15	8	-10	-15	2	25
56-43.4467-107.1167-2-11-						0-W09142	-5	-5	-5	26	-20	-15	8	-10	-15	2	31
56-43.4569-107.1178-2-15-						0-W09143	-5	-5	-5	14	-20	26	9	-10	-15	2	48
56-43.4586-107.0994-2-12-						0-W09144	-5	-5	-5	26	-20	-15	9	-10	-15	1	30
56-43.4489-107.0958-2-11-						0-W09145	-5	-5	-5	16	-20	19	7	-10	-15	2	27
56-43.4689-107.0517-2-15-						0-W09146	-5	-5	-5	20	-20	-15	12	-10	-15	2	24
56-43.4436-107.0025-2-15-						0-W09147	-5	-5	-5	13	-20	-15	-5	-10	-15	1	19
56-43.5250-106.1000-2-15-						0-W09148	-5	-5	-5	15	-20	-15	-5	-10	-15	2	22
56-43.6350-106.1117-2-15-						0-W09149	-5	-5	-5	30	-20	-15	14	-10	-15	2	47
56-43.7106-106.0617-2-15-						0-W09152	-5	-5	-5	14	-20	16	9	-10	-15	2	31
56-43.6919-106.0331-2-15-						0-W09154	-5	-5	-5	21	-20	-15	15	-10	-15	2	33
56-43.7094-106.1133-2-15-						0-W09159	-5	-5	-5	21	-20	20	10	-10	-15	2	35
56-43.6611-106.1483-2-15-						0-W09160	-5	-5	-5	35	-20	-15	11	-10	-15	2	32
56-43.6578-106.1569-2-15-						0-W09161	-5	-5	-5	15	-20	-15	6	-10	-15	2	49

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.0161-	106.8983-	2-	15-	0-	W09096	40230	-0.04	623	19700	59	171	6.6	36	1.9	3	1.0	9094	11.7	15820	30	0.4
56-	43.0131-	106.8222-	2-	15-	0-	W09097	63640	-0.06	666	9130	45	-59	6.2	46	4.0	3	0.8	12710	3.7	17740	29	0.2
56-	43.0106-	106.7844-	2-	15-	0-	W09098	52420	-0.03	626	47980	41	-56	6.1	38	2.8	4	0.7	10630	5.6	15010	25	0.3
56-	43.0453-	106.8578-	2-	15-	0-	W09100	50960	-0.03	638	13270	54	-53	6.2	47	2.8	4	0.9	11520	7.1	18120	29	0.3
56-	43.0539-	106.7894-	2-	15-	0-	W09101	43600	-0.03	603	14390	51	-58	5.4	32	2.1	3	0.7	9573	6.3	13240	26	0.3
56-	43.0733-	106.8444-	2-	15-	0-	W09102	41700	-0.04	560	25390	36	87	4.0	27	2.2	3	0.7	7715	5.1	13240	21	0.2
56-	43.0728-	106.8667-	2-	15-	0-	W09103	42570	-0.03	705	22680	42	70	4.0	35	2.1	3	0.7	8689	5.9	13410	25	0.3
56-	43.0761-	106.7967-	2-	15-	0-	W09104	48900	-0.04	663	15460	51	-59	6.0	39	2.9	3	0.9	11360	5.9	16960	28	0.4
56-	43.2417-	106.7753-	2-	15-	0-	W09105	63570	-0.06	636	16710	42	-62	7.3	52	3.6	4	0.8	14930	4.1	17480	28	0.3
56-	43.2128-	106.7900-	2-	15-	0-	W09106	45970	-0.04	708	24760	41	274	5.5	44	2.7	3	0.7	11490	4.5	15780	23	0.2
56-	43.2000-	106.8558-	2-	15-	0-	W09108	49240	-0.04	809	118100	43	-52	7.6	45	3.9	3	0.7	13900	2.9	13000	26	0.2
56-	43.1939-	106.8644-	2-	15-	0-	W09109	53390	-0.04	879	58440	49	-54	7.2	53	3.7	3	0.9	15060	5.2	14060	28	0.3
56-	43.1931-	106.7925-	2-	15-	0-	W09110	41020	-0.04	568	20870	33	239	4.1	36	2.1	3	0.6	8935	4.2	13400	19	0.3
56-	43.1953-	106.7850-	2-	15-	0-	W09111	76640	-0.06	863	14460	52	-59	8.1	60	4.4	4	1.0	17650	2.6	21540	30	0.2
56-	43.1775-	106.7806-	2-	15-	0-	W09112	62280	-0.04	947	55720	59	-49	8.3	70	4.7	4	1.0	16390	4.3	16470	32	0.3
56-	43.1694-	106.7814-	2-	15-	0-	W09114	71010	-0.06	916	51080	71	-60	9.6	87	5.3	4	1.0	17970	3.7	15920	36	0.4
56-	43.1561-	106.7958-	2-	15-	0-	W09115	45190	-0.05	1267	57890	42	157	5.6	37	2.6	3	1.0	14140	4.9	13720	24	0.2
56-	43.1556-	106.7939-	2-	15-	0-	W09116	50340	-0.04	1300	68610	49	-56	6.4	58	3.2	3	0.6	15610	4.4	13660	29	0.3
56-	43.1400-	106.8706-	2-	15-	0-	W09117	48320	-0.04	718	23730	52	-52	7.0	45	3.0	4	0.9	12550	7.7	15560	31	0.3
56-	43.1383-	106.8717-	2-	15-	0-	W09118	44290	-0.04	668	29300	52	-56	5.7	46	2.4	3	1.0	9941	8.0	14250	27	0.3
56-	43.0861-	106.7722-	2-	15-	0-	W09119	63640	-0.05	604	15130	46	-63	5.2	40	3.8	3	0.8	13290	3.7	16900	29	0.3
56-	43.0733-	106.7550-	2-	15-	0-	W09120	53550	-0.03	587	12340	46	-54	5.3	40	2.8	4	0.6	10670	6.0	17040	27	0.3
56-	43.1219-	106.7111-	2-	15-	0-	W09121	46210	-0.03	659	28010	46	139	5.4	45	3.2	3	0.7	11590	5.9	16250	28	0.3
56-	43.0769-	106.7472-	2-	15-	0-	W09122	47500	-0.04	641	4998	54	-63	6.4	38	2.9	4	0.8	10040	6.4	16570	27	0.3
56-	43.0575-	106.7214-	2-	15-	0-	W09123	40630	-0.04	558	5098	40	-68	4.0	22	1.4	2	0.7	6507	5.3	14440	22	0.2
56-	43.0175-	106.6361-	2-	15-	0-	W09125	25240	-0.03	1058	10170	130	669	3.2	36	-0.8	7	1.4	6546	34.9	10500	76	0.8
56-	43.3822-	107.1964-	2-	15-	0-	W09127	56550	-0.04	669	35090	68	-69	8.6	53	2.7	4	1.0	16430	9.1	18090	38	0.3
56-	43.3714-	107.1972-	2-	15-	0-	W09128	59680	-0.05	975	39490	77	94	9.8	64	2.3	4	1.2	17360	9.3	15560	38	0.5
56-	43.4217-	107.1917-	2-	15-	0-	W09129	53720	-0.06	399	17310	54	170	10.9	113	-1.7	3	0.9	19970	10.2	12420	32	0.3
56-	43.4250-	107.1908-	2-	12-	0-	W09130	49730	-0.05	250	36890	43	211	15.5	202	-1.5	5	0.8	36000	12.6	9302	30	0.6
56-	43.4631-	107.2222-	2-	12-	0-	W09132	40060	-0.03	569	6837	65	-56	6.9	42	1.4	4	1.2	10450	20.4	21350	33	0.5
56-	43.4700-	107.2256-	2-	11-	0-	W09133	58570	-0.06	701	8789	95	-85	12.8	80	3.3	5	1.2	18370	15.3	20730	41	0.6
56-	43.5000-	107.1722-	2-	15-	0-	W09136	61800	-0.04	555	13610	57	-53	6.1	42	2.9	5	0.9	14960	4.6	33930	32	0.4
56-	43.4814-	107.1108-	2-	11-	0-	W09137	49290	-0.04	608	58300	68	-65	8.0	64	2.7	3	1.1	15180	9.3	13780	37	0.3
56-	43.4844-	107.0672-	2-	11-	0-	W09138	50080	-0.05	539	67300	57	-76	7.6	40	2.0	4	0.8	11880	7.1	12310	26	0.3
56-	43.4481-	107.1417-	2-	11-	0-	W09139	51940	-0.05	539	34830	39	-74	5.6	32	1.8	3	0.7	9226	6.5	12340	23	-0.1
56-	43.4300-	107.1367-	2-	15-	0-	W09140	48040	-0.03	605	36140	48	-61	5.8	44	1.6	3	0.7	10250	7.8	12380	28	0.2
56-	43.4342-	107.1461-	2-	12-	0-	W09141	50610	-0.04	619	33760	72	93	8.0	65	2.8	4	1.1	16210	11.1	15710	39	0.4
56-	43.4467-	107.1167-	2-	11-	0-	W09142	51450	-0.04	621	14120	49	320	7.1	45	2.2	3	0.9	11040	7.7	16300	29	0.3
56-	43.4569-	107.1178-	2-	15-	0-	W09143	71480	-0.05	320	11950	38	-49	4.3	47	-1.4	3	0.6	10360	4.6	12180	22	0.2
56-	43.4586-	107.0994-	2-	12-	0-	W09144	44130	-0.03	583	37230	49	108	5.0	39	-1.0	3	0.7	9216	7.6	11820	25	0.3
56-	43.4489-	107.0958-	2-	11-	0-	W09145	44480	-0.04	533	40470	77	-60	7.3	70	2.8	4	1.0	15010	13.1	11700	37	0.4
56-	43.4689-	107.0517-	2-	15-	0-	W09146	36170	-0.03	495	15300	32	-47	5.5	38	1.8	2	0.6	7885	7.0	13960	18	0.2
56-	43.4436-	107.0025-	2-	15-	0-	W09147	25080	-0.03	258	44760	17	-43	3.2	22	-0.9	1	0.3	4526	3.4	11620	11	0.2
56-	43.5250-	106.1000-	2-	15-	0-	W09148	46600	-0.03	496	18600	49	100	4.2	32	2.3	3	0.6	8058	6.3	13660	27	0.3
56-	43.6350-	106.1117-	2-	15-	0-	W09149	70830	-0.05	542	10540	75	77	9.8	69	5.2	4	1.1	20740	6.0	16980	48	0.4
56-	43.7106-	106.0617-	2-	15-	0-	W09152	42940	-0.04	659	16630	65	52	5.5	33	2.1	5	0.7	9731	13.1	15180	36	0.5
56-	43.6919-	106.0321-	2-	15-	0-	W09154	46940	-0.04	541	15960	36	103	4.6	28	1.9	3	0.6	8913	5.2	16710	23	0.3
56-	43.7094-	106.1133-	2-	15-	0-	W09159	51800	-0.04	564	5144	53	-38	5.8	45	3.4	4	0.8	11050	6.1	18080	31	0.3
56-	43.6611-	106.1483-	2-	15-	0-	W09160	53030	-0.06	410	28680	65	425	9.9	55	4.2	3	0.9	18390	5.0	14250	36	0.3
56-	43.6578-	106.1569-	2-	15-	0-	W09161	42610	-0.04	452	17130	44	557	6.7	30	2.1	4	0.7	10090	6.7	14800	25	0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER: STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued). Concentrations reported in weight parts per million (ppm): Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	U/Th RATIO
56-	43.0161-	106.8983-	2-	15-		0-W09096	10770	294	9793	-16	-1	4.4	4.1	-246	-1	-1	9.2	2239	48	3.6	-39	0.383
56-	43.0131-	106.8222-	2-	15-		0-W09097	18590	223	4853	48	-2	7.7	2.1	-234	-1	-1	7.9	2778	153	-1.7	-83	0.358
56-	43.0106-	106.7844-	2-	15-		0-W09098	12940	251	6252	39	1	5.2	3.8	307		-1	7.7	2320	128	2.4	-34	0.482
56-	43.0453-	106.8578-	2-	15-		0-W09100	15720	205	7040	45	-1	5.8	3.7	-180	-1	1	8.8	2815	85	2.6	58	0.323
56-	43.0539-	106.7894-	2-	15-		0-W09101	15750	175	7179	28	-1	4.4	3.9	-194	-1	-1	6.7	2210	66	2.3	74	0.327
56-	43.0733-	106.8444-	2-	15-		0-W09102	21180	197	6460	35	-1	3.9	2.2	-214	-1	-1	5.7	2180	68	2.6	-32	0.446
56-	43.0728-	106.8667-	2-	15-		0-W09103	22500	181	11830	30	-1	4.2	3.2	-191		-1	6.2	2556	75	2.0	-23	0.405
56-	43.0761-	106.7967-	2-	15-		0-W09104	18610	216	6854	32	-1	5.6	4.0	-207	-1	-1	7.8	2458	80	2.5	61	0.300
56-	43.2417-	106.7753-	2-	15-		0-W09105	25730	160	5117	-25	-2	8.3	2.9	-232	-1	-1	7.5	3726	180	-1.4	-41	0.419
56-	43.2128-	106.7900-	2-	15-		0-W09106	7047	178	5873	39	-1	5.5	3.0	-188		-1	6.1	2944	111	2.5	75	0.418
56-	43.2000-	106.8558-	2-	15-		0-W09108	17860	165	3974	35	3	6.3	3.7	456	-1	-1	6.5	2540	228	2.4	81	0.983
56-	43.1939-	106.8644-	2-	15-		0-W09109	24120	161	4732	33	2	6.6	5.1	-190	-1	-1	8.2	2858	196	2.0	-13	0.662
56-	43.1931-	106.7925-	2-	15-		0-W09110	21060	119	5481	43	-1	4.5	2.1	-180	-1	-1	5.3	2294	103	2.3	72	0.457
56-	43.1953-	106.7850-	2-	15-		0-W09111	4611	178	4828	52	-2	9.5	3.8	-231	-1	-1	8.7	4222	215	2.5	91	0.371
56-	43.1775-	106.7806-	2-	15-		0-W09112	19840	177	4651	43	3	8.5	4.1	414	-1	-1	8.4	3474	244	2.0	106	0.524
56-	43.1694-	106.7814-	2-	15-		0-W09114	19120	177	4207	72	2	10.0	5.8	388	-1	-1	11.2	3583	269	4.2	98	0.415
56-	43.1561-	106.7958-	2-	15-		0-W09115	17230	238	6507	-22	-2	5.6	2.4	528	-1	-1	6.5	2576	145	1.5	-37	0.517
56-	43.1556-	106.7939-	2-	15-		0-W09116	20570	284	4678	47	1	6.3	3.3	498	-1	-1	7.5	2464	191	1.8	69	0.517
56-	43.1400-	106.8706-	2-	15-		0-W09117	15450	186	6027	46	-1	6.2	3.5	-181	-1	-1	7.2	3032	114	2.2	79	0.386
56-	43.1383-	106.8717-	2-	15-		0-W09118	13230	167	6378	32	-1	5.0	4.3	318	-1	-1	8.1	2914	90	2.3	-28	0.332
56-	43.0861-	106.7722-	2-	15-		0-W09119	20430	277	6216	48	-2	7.3	3.2	-252	-1	-1	7.2	3214	106	2.1	-83	0.375
56-	43.0733-	106.7550-	2-	15-		0-W09120	18130	245	6784	41	-1	5.5	3.2	-195		-1	7.1	3058	84	2.4	70	0.370
56-	43.1219-	106.7111-	2-	15-		0-W09121	27030	245	6532	34	-1	5.7	3.2	-190	-1	-1	7.2	2487	92	2.6	57	0.364
56-	43.0769-	106.7472-	2-	15-		0-W09122	9296	290	7366	34	-1	5.2	4.8	-229	-1	-1	8.9	2356	57	2.1	47	0.261
56-	43.0575-	106.7214-	2-	15-		0-W09123	5009	232	9065	-16	-1	3.5	2.0	-226	-1	-1	6.4	1700	45	1.7	-24	0.361
56-	43.0175-	106.6361-	2-	15-		0-W09125	5252	332	8514	-11	-1	3.3	8.0	-199	-1	1	26.8	3403	32	5.5	35	0.229
56-	43.3822-	107.1964-	2-	15-		0-W09127	24560	571	7846	38	-1	7.6	4.3	-273	-1	-1	12.2	3496	62	2.8	-24	0.229
56-	43.3714-	107.1972-	2-	15-		0-W09128	20030	581	8941	32	-1	8.0	4.9	286	-1	-1	13.7	3253	75	2.8	81	0.212
56-	43.4217-	107.1917-	2-	15-		0-W09129	22450	794	10460	-26	-2	9.6	2.9	-391	-1	-1	13.6	3446	99	3.6	-67	0.255
56-	43.4250-	107.1908-	2-	12-		0-W09130	32040	1458	13360	-19	-2	21.4	4.7	-413	-1	-1	15.0	7302	146	4.3	-15	0.185
56-	43.4631-	107.2222-	2-	12-		0-W09132	6777	396	7458	42	-1	5.2	4.0	-207	-1	1	11.4	2973	44	3.3	-10	0.323
56-	43.4700-	107.2256-	2-	11-		0-W09133	12470	588	8722	48	-2	7.8	5.7	-353	-1	-1	13.8	4214	64	3.9	-84	0.278
56-	43.5000-	107.1722-	2-	15-		0-W09136	15420	516	4111	49	-1	6.7	4.2	-257	-1	-1	9.7	3409	62	3.1	69	0.293
56-	43.4814-	107.1108-	2-	11-		0-W09137	26070	364	8160	43	-1	7.0	4.9	-226	-1	-1	11.3	3033	64	3.3	68	0.229
56-	43.4844-	107.0672-	2-	11-		0-W09138	27570	387	7697	-20	-1	5.0	3.7	-279	-1	-1	8.2	2833	64	2.5	70	0.330
56-	43.4481-	107.1417-	2-	11-		0-W09139	31930	260	7915	-24	-2	4.3	2.1	-255	-1	-1	6.2	3147	60	-1.3	-40	0.471
56-	43.4300-	107.1367-	2-	15-		0-W09140	31570	370	7698	31	-1	4.6	3.7	208	-1	-1	8.2	2844	53	2.3	-52	0.324
56-	43.4342-	107.1461-	2-	12-		0-W09141	28080	334	8209	45	-1	7.0	5.1	-221	-1	-1	12.6	2840	59	3.6	58	0.220
56-	43.4467-	107.1167-	2-	11-		0-W09142	12470	462	8461	34	-1	5.1	3.8	-281	-1	-1	8.2	3835	55	2.8	63	0.341
56-	43.4569-	107.1178-	2-	15-		0-W09143	14400	156	3806	-23	-2	7.3	2.3	-191	-1	-1	7.5	5265	66	1.5	-39	0.291
56-	43.4586-	107.0994-	2-	12-		0-W09144	29000	293	6711	21	-1	4.4	3.0	-215	-1	-1	7.3	2667	51	2.0	-24	0.351
56-	43.4489-	107.0958-	2-	11-		0-W09145	30480	274	6569	-19	-1	6.6	5.5	-213	-1	-1	11.9	2898	53	3.9	104	0.225
56-	43.4689-	107.0517-	2-	15-		0-W09146	15410	312	3907	30	-1	3.5	2.2	-207	-1		5.0	2291	39	1.8	46	0.444
56-	43.4436-	107.0025-	2-	15-		0-W09147	26410	188	2404	-16	-1	2.1	1.0	-171	-1		2.3	1285	35	-0.8	-27	0.783
56-	43.5250-	106.1000-	2-	15-		0-W09148	11960	225	4377	39	-1	4.1	3.1	-170	-1		6.9	2524	53	2.4	-27	0.528
56-	43.6350-	106.1117-	2-	15-		0-W09149	21170	312	1727	61	-1	11.1	5.5	-210	-1	-1	14.7	3089	108	4.1	-73	0.344
56-	43.7106-	106.0617-	2-	15-		0-W09152	13570	378	2069	25	-1	4.6	5.4	-212	-1	-1	12.2	3330	62	3.0	42	0.363
56-	43.6919-	106.0331-	2-	15-		0-W09154	14200	322	1679	-21	-1	4.3	2.2	-223	-1	-1	5.9	2761	65	2.6	-37	0.632
56-	43.7094-	106.1133-	2-	15-		0-W09159	11280	284	2373	35	-1	5.7	3.4	-187	-1	-1	8.4	3111	77	3.0	70	0.444
56-	43.6611-	106.1483-	2-	15-		0-W09160	19670	369	9639	-24	-2	8.0	5.6	-282	-1	-1	10.7	2448	93	3.7	108	0.745
56-	43.6578-	106.1569-	2-	15-		0-W09161	18870	299	16920	24	-1	4.5	3.2	-278	-1	-1	6.6	2525	73	2.6	43	0.526

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples ①

DOE SAMPLE NUMBER (STATE-LATITUDE-LONGITUDE-DOE LAB-SAMPLE TYPE-REPLICATE)	LASL SAMPLE LOCATION NUMBER AND FIELD DATA (LASL SAMPLE LOCATION NUMBER-DATE-HOUR-AIR TEMPERATURE-WATER TEMPERATURE-COMMENTS-SPECIAL MEASUREMENTS-pH-CONDUCTIVITY (µmho/cm)-SCINTILLOMETER (eU, ppm)-ROCK TYPE-ROCK COLOR-SEDIMENT TYPE-SEDIMENT COLOR-WATER FLOW-WATER LEVEL-WATER COLOR-STREAM CHANNEL-VEGETATION TYPE-VEGETATION DENSITY-RELIEF-WEATHER-OWNERSHIP-CONTAMINANTS-WELL TYPE-WELL DIAMETER (INCHES)-WELL DEPTH (FEET)-WATER DEPTH (FEET))	U CONCENTRATION: SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.6828-106.1450-2-15-	0-W09162-09/11/77-13- 20- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.20
56-43.7447-106.0700-2-15-	0-W09163-09/11/77-14- 20- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.37
56-43.7442-106.0781-2-15-	0-W09164-09/11/77-14- 20- - - - - - 9-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.56
56-43.7367-106.0972-2-15-	0-W09165-09/11/77-14- 20- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.58
56-43.7483-106.1192-2-15-	0-W09167-09/11/77-15- 20- - - - - - 16-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.25
56-43.7750-106.0181-2-15-	0-W09169-09/12/77- 8- 16- - - - - - 18-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	4.86
56-43.7753-106.0211-2-15-	0-W09170-09/12/77- 8- 16- - - - - - 9-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	13.00
56-43.7972-106.0297-2-15-	0-W09171-09/12/77- 8- 16- - - - - - 13-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	7.24
56-43.8158-106.0542-2-15-	0-W09174-09/12/77- 9- 17- - - - - - 9-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.52
56-43.8175-106.0558-2-15-	0-W09175-09/12/77- 9- 17- - - - - - 16-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	4.26
56-43.8450-106.0178-2-15-	0-W09176-09/12/77-10- 17- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.91
56-43.8431-106.0578-2-15-	0-W09177-09/12/77-10- 17- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.00
56-43.8389-106.0692-2-15-	0-W09178-09/12/77-10- 18- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	4.32
56-43.7725-106.1711-2-15-	0-W09182-09/12/77-11- 19- - - - - - 18-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.77
56-43.7742-106.2039-2-15-	0-W09185-09/12/77-12- 20- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.52
56-43.7297-106.2022-2-15-	0-W09186-09/12/77-13- 20- - - - - - 13-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.66
56-43.7161-106.1581-2-15-	0-W09187-09/12/77-13- 20- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.61
56-43.6939-106.1975-2-15-	0-W09188-09/12/77-14- 20- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.91
56-43.6719-106.1908-2-15-	0-W09189-09/12/77-14- 20- - - - - - 16-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.67
56-43.6714-106.1878-2-15-	0-W09190-09/12/77-15- 20- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.68
56-43.6556-106.2303-2-15-	0-W09191-09/12/77-15- 20- - - - - - -1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.91
56-43.6678-106.2464-2-15-	0-W09192-09/12/77-15- 20- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.61
56-43.6947-106.2489-2-15-	0-W09193-09/12/77-16- 20- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.89
56-43.3708-106.3842-2-15-	0-W09194-09/13/77- 8- 17- - - - - - 13-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.24
56-43.3372-106.3856-2-15-	0-W09195-09/13/77- 8- 17- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.62
56-43.3367-106.3878-2-15-	0-W09196-09/13/77- 8- 17- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.79
56-43.3064-106.4731-2-15-	0-W09199-09/13/77- 9- 18- - - - - - 16-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.57
56-43.3100-106.4614-2-15-	0-W09200-09/13/77-10- 18- - - - - - 16-1-7-5-6- -1- - -2-3-3-3- -3-1- - - -	2.69
56-43.3167-106.4353-2-15-	0-W09201-09/13/77-10- 18- - - - - - 18-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.49
56-43.3172-106.4072-2-15-	0-W09202-09/13/77-10- 18- - - - - - 18-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.81
56-43.2881-106.3964-2-15-	0-W09203-09/13/77-10- 18- - - - - - 9-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.79
56-43.2614-106.4081-2-15-	0-W09204-09/13/77-11- 19- - - - - - 18-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.36
56-43.2511-106.3947-2-15-	0-W09205-09/13/77-11- 19- - - - - - 23-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.93
56-43.2089-106.4936-2-15-	0-W09206-09/13/77-11- 19- - - - - - 18-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.01
56-43.2061-106.4639-2-15-	0-W09207-09/13/77-12- 20- - - - - - 16-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.99
56-43.1969-106.4433-2-15-	0-W09208-09/13/77-12- 20- - - - - - 18-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.92
56-43.2203-106.4425-2-15-	0-W09209-09/13/77-12- 20- - - - - - 20-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.79
56-43.2358-106.4433-2-15-	0-W09210-09/13/77-13- 20- - - - - - 16-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.13
56-43.2397-106.3947-2-15-	0-W09211-09/13/77-13- 20- - - - - - 18-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.04
56-43.2369-106.3967-2-15-	0-W09212-09/13/77-14- 20- - - - - - 20-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.67
56-43.1842-106.3925-2-15-	0-W09213-09/13/77-14- 20- - - - - - 13-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.44
56-43.1789-106.4083-2-15-	0-W09214-09/13/77-14- 20- - - - - - 13-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.80
56-43.1750-106.4083-2-15-	0-W09215-09/13/77-14- 20- - - - - - 13-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.71
56-43.1258-106.3933-2-15-	0-W09216-09/13/77-15- 20- - - - - - 13-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.60
56-43.1364-106.4117-2-15-	0-W09217-04/13/77-15- 20- - - - - - 13-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.83
56-43.0739-106.3442-2-15-	0-W09220-09/13/77-15- 20- - - - - - 13-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.58
56-43.0833-106.3697-2-15-	0-W09222-09/13/77-16- 19- - - - - - 13-1-7-5-6- -1- -2-4-3-3-1- -1- - - - -	2.28
56-43.0883-106.4636-2-15-	0-W09224-09/14/77- 8- 16- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.69
56-43.0758-106.4508-2-15-	0-W09225-09/14/77- 8- 16- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.00
56-43.0608-106.4881-2-15-	0-W09226-09/14/77- 8- 16- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.61
56-43.0589-106.4864-2-15-	0-W09227-09/14/77- 8- 16- - - - - - 11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.00

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.6828-106.1450-2-15-						0-W09162	-5	-5	-5	16	-20	-15	14	-10	-15	2	44
56-43.7447-106.0700-2-15-						0-W09163	-5	-5	-5	23	-20	16	6	-10	-15	2	37
56-43.7442-106.0781-2-15-						0-W09164	-5	-5	-5	24	-20	25	9	-10	-15	2	22
56-43.7367-106.0972-2-15-						0-W09165	-5	-5	-5	21	-20	-15	7	-10	-15	2	32
56-43.7483-106.1192-2-15-						0-W09167	-5	-5	-5	21	-20	-15	7	-10	-15	2	32
56-43.7750-106.0181-2-15-						0-W09169	-5	-5	-5	21	-20	-15	7	-10	-15	2	36
56-43.7753-106.0211-2-15-						0-W09170	-5	-5	-5	19	-20	-15	11	-10	-15	2	46
56-43.7972-106.0297-2-15-						0-W09171	-5	-5	-5	14	-20	-15	11	-10	-15	2	28
56-43.8158-106.0542-2-15-						0-W09174	-5	-5	-5	13	-20	-15	12	-10	-15	-1	24
56-43.8175-106.0558-2-15-						0-W09175	-5	-5	-5	13	-20	-15	-5	-10	-15	2	29
56-43.8450-106.0178-2-15-						0-W09176	-5	-5	-5	31	-20	-15	11	-10	-15	2	38
56-43.8431-106.0578-2-15-						0-W09177	-5	-5	-5	21	-20	-15	13	-10	-15	2	41
56-43.8389-106.0692-2-15-						0-W09178	-5	-5	-5	-10	-20	18	9	-10	-15	1	22
56-43.7725-106.1711-2-15-						0-W09182	-5	-5	-5	21	-20	-15	9	-10	-15	2	30
56-43.7742-106.2039-2-15-						0-W09185	-5	-5	-5	15	-20	27	-5	-10	-15	2	23
56-43.7297-106.2022-2-15-						0-W09186	-5	-5	-5	13	-20	-15	-5	-10	-15	2	21
56-43.7161-106.1581-2-15-						0-W09187	-5	-5	-5	14	-20	-15	6	-10	-15	2	28
56-43.6939-106.1975-2-15-						0-W09188	-5	-5	-5	13	-20	-15	5	-10	-15	2	23
56-43.6719-106.1908-2-15-						0-W09189	-5	-5	-5	11	-20	15	-5	-10	-15	2	17
56-43.6714-106.1878-2-15-						0-W09190	-5	-5	-5	21	-20	-15	6	-10	-15	2	29
56-43.6556-106.2303-2-15-						0-W09191	-5	-5	-5	30	-20	18	-5	-10	-15	2	27
56-43.6678-106.2464-2-15-						0-W09192	-5	-5	-5	23	-20	22	5	-10	-15	2	28
56-43.6947-106.2489-2-15-						0-W09193	-5	-5	-5	14	-20	19	8	-10	-15	2	26
56-43.3708-106.3842-2-15-						0-W09194	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	37
56-43.3372-106.3856-2-15-						0-W09195	-5	-5	-5	22	-20	17	7	-10	-15	2	32
56-43.3367-106.3878-2-15-						0-W09196	-5	-5	-5	25	-20	22	5	-10	-15	2	48
56-43.3064-106.4731-2-15-						0-W09199	-5	-5	-5	20	-20	19	13	-10	-15	2	49
56-43.3100-106.4614-2-15-						0-W09200	-5	-5	-5	18	-20	-15	9	-10	-15	2	49
56-43.3167-106.4353-2-15-						0-W09201	-5	-5	-5	19	-20	16	10	-10	-15	2	42
56-43.3172-106.4072-2-15-						0-W09202	-5	-5	-5	16	-20	-15	10	-10	-15	3	37
56-43.2881-106.3964-2-15-						0-W09203	-5	-5	-5	24	-20	21	19	-10	-15	2	40
56-43.2614-106.4081-2-15-						0-W09204	-5	-5	-5	32	-20	21	25	-10	-15	2	52
56-43.2511-106.3947-2-15-						0-W09205	-5	-5	-5	16	-20	-15	-5	-10	-15	2	23
56-43.2089-106.4936-2-15-						0-W09206	-5	-5	-5	24	-20	16	18	-10	-15	2	50
56-43.2061-106.4639-2-15-						0-W09207	-5	-5	-5	17	-20	-15	8	-10	-15	2	25
56-43.1969-106.4433-2-15-						0-W09208	-5	-5	-5	27	-20	18	9	-10	-15	3	51
56-43.2203-106.4425-2-15-						0-W09209	-5	-5	-5	25	-20	-15	13	-10	-15	2	23
56-43.2358-106.4433-2-15-						0-W09210	-5	-5	-5	27	-20	34	12	-10	-15	2	49
56-43.2397-106.3947-2-15-						0-W09211	-5	-5	-5	21	-20	-15	16	-10	-15	2	25
56-43.2369-106.3967-2-15-						0-W09212	-5	-5	-5	14	-20	-15	14	-10	-15	2	23
56-43.1842-106.3925-2-15-						0-W09213	-5	-5	-5	13	-20	-15	-5	-10	-15	2	21
56-43.1789-106.4083-2-15-						0-W09214	-5	-5	-5	-10	-20	-15	8	-10	-15	2	28
56-43.1750-106.4083-2-15-						0-W09215	-5	-5	-5	-10	-20	-15	10	-10	-15	2	20
56-43.1258-106.3933-2-15-						0-W09216	-5	-5	-5	13	-20	-15	6	-10	-15	2	38
56-43.1364-106.4117-2-15-						0-W09217	-5	-5	-5	17	-20	-15	15	-10	-15	2	40
56-43.0739-106.3442-2-15-						0-W09220	-5	-5	-5	19	-20	-15	8	-10	-15	2	31
56-43.0833-106.3697-2-15-						0-W09222	-5	-5	-5	17	-20	-15	5	-10	-15	2	28
56-43.0883-106.4636-2-15-						0-W09224	-5	-5	-5	19	-20	15	11	-10	-15	1	25
56-43.0758-106.4508-2-15-						0-W09225	-5	-5	-5	17	-20	-15	10	-10	-15	2	20
56-43.0608-106.4881-2-15-						0-W09226	-5	-5	-5	16	-20	18	6	-10	-15	2	22
56-43.0589-106.4864-2-15-						0-W09227	-5	-5	-5	23	-20	-15	13	-10	-15	2	24

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.6828-	106.1450-	2-	15-	0-	W09162	46780	-0.05	404	16140	33	155	5.0	26	1.9	3	0.6	8715	5.1	14720	22	0.2
56-	43.7447-	106.0700-	2-	15-	0-	W09163	45630	-0.03	583	16820	41	-35	4.9	33	2.0	4	0.6	9498	5.0	17150	24	0.3
56-	43.7442-	106.0781-	2-	15-	0-	W09164	47040	-0.04	561	18240	79	-36	6.5	47	3.9	4	1.1	14880	10.6	16710	41	0.5
56-	43.7367-	106.0972-	2-	15-	0-	W09165	44690	-0.04	525	18610	54	-40	6.3	27	2.0	4	0.9	9077	8.7	16040	28	0.4
56-	43.7483-	106.1192-	2-	15-	0-	W09167	42470	-0.04	487	3563	36	-46	4.4	16	-1.1	3	0.5	6961	7.0	15020	22	0.3
56-	43.7750-	106.0181-	2-	15-	0-	W09169	45860	-0.03	606	19100	52	523	5.0	33	2.2	4	0.7	10210	9.0	17370	31	0.3
56-	43.7753-	106.0211-	2-	15-	0-	W09170	44840	-0.04	456	18340	85	2657	7.2	46	2.8	3	1.0	14830	9.7	14280	43	0.5
56-	43.7972-	106.0297-	2-	15-	0-	W09171	41470	-0.04	689	28600	63	1359	6.2	30	2.2	5	0.9	9935	13.2	13860	34	0.4
56-	43.8158-	106.0542-	2-	15-	0-	W09174	39320	-0.04	424	15740	37	-42	3.6	19	-1.0	3	0.6	6231	6.9	14060	23	0.2
56-	43.8175-	106.0558-	2-	15-	0-	W09175	44330	-0.03	558	26310	53	-44	4.3	31	2.0	4	0.7	9165	11.1	15680	33	0.3
56-	43.8450-	106.0178-	2-	15-	0-	W09176	56810	-0.04	569	11080	67	-38	7.2	57	3.9	4	1.2	16930	7.1	15950	39	0.4
56-	43.8431-	106.0578-	2-	15-	0-	W09177	53550	-0.06	409	9657	58	-48	5.9	43	3.5	3	0.9	12380	7.8	18290	31	0.4
56-	43.8389-	106.0692-	2-	15-	0-	W09178	37330	-0.04	493	14350	66	-39	4.4	35	2.2	4	0.8	8779	15.4	16370	39	0.5
56-	43.7725-	106.1711-	2-	15-	0-	W09182	45140	-0.05	514	5421	57	-41	6.2	38	2.8	3	0.9	10780	9.4	13730	29	0.3
56-	43.7742-	106.2039-	2-	15-	0-	W09185	36950	-0.05	352	7750	50	-43	5.5	35	2.0	2	0.8	8849	8.7	12890	27	0.4
56-	43.7297-	106.2022-	2-	15-	0-	W09186	34900	-0.05	523	5644	37	-37	4.6	32	1.7	2	0.6	8311	11.4	10120	25	0.3
56-	43.7161-	106.1581-	2-	15-	0-	W09187	46790	-0.04	572	5687	45	-33	4.6	38	2.5	3	0.7	9086	6.6	14570	24	0.3
56-	43.6939-	106.1975-	2-	15-	0-	W09188	33730	-0.04	397	6823	46	-33	5.2	34	2.0	3	0.8	9458	13.1	10780	25	0.3
56-	43.6719-	106.1908-	2-	15-	0-	W09189	33640	-0.05	378	6793	58	-32	5.3	43	2.0	3	1.2	10200	23.6	11170	31	0.5
56-	43.6714-	106.1878-	2-	15-	0-	W09190	47290	-0.06	509	5366	45	-39	4.6	34	2.8	3	0.9	10460	6.5	14750	23	0.3
56-	43.6556-	106.2303-	2-	15-	0-	W09191	44760	-0.04	527	3527	39	-34	5.0	38	2.7	4	0.8	9401	7.9	14310	26	0.3
56-	43.6678-	106.2464-	2-	15-	0-	W09192	44030	-0.04	567	4501	44	-32	5.5	36	3.4	4	0.8	11170	7.4	14760	25	0.3
56-	43.6947-	106.2489-	2-	15-	0-	W09193	41790	-0.05	520	7569	52	-32	5.6	43	2.2	4	0.8	7631	11.8	12470	30	0.4
56-	43.3708-	106.3842-	2-	15-	0-	W09194	41010	-0.05	598	17850	43	-56	4.2	32	2.3	2	0.8	9532	5.2	11000	26	0.2
56-	43.3372-	106.3856-	2-	15-	0-	W09195	41900	-0.04	631	21980	43	-46	3.8	40	1.9	3	0.8	9108	8.6	12270	28	0.3
56-	43.3367-	106.3878-	2-	15-	0-	W09196	46740	-0.04	650	19580	57	-47	4.7	50	2.8	4	0.9	11980	9.6	13350	30	0.3
56-	43.3064-	106.4731-	2-	15-	0-	W09199	43610	-0.05	686	20260	54	213	6.3	50	2.7	3	0.9	12790	5.8	12800	27	0.3
56-	43.3100-	106.4614-	2-	15-	0-	W09200	44890	-0.06	681	20960	37	-52	6.0	52	2.6	3	0.8	13050	6.5	13920	26	0.3
56-	43.3167-	106.4353-	2-	15-	0-	W09201	50920	-0.04	671	16960	46	-50	4.7	41	3.4	3	0.8	10540	6.0	16330	29	0.3
56-	43.3172-	106.4072-	2-	15-	0-	W09202	42280	-0.04	757	28620	46	89	6.0	50	3.0	4	0.9	12410	6.8	11600	29	0.3
56-	43.2881-	106.3964-	2-	15-	0-	W09203	51790	-0.06	744	61250	55	-64	7.9	53	3.3	3	0.8	14860	6.5	11890	28	0.3
56-	43.2614-	106.4081-	2-	15-	0-	W09204	68490	-0.09	517	26440	60	-77	7.5	47	4.9	3	1.0	16760	4.3	17220	34	0.2
56-	43.2511-	106.3947-	2-	15-	0-	W09205	38390	-0.04	404	17870	47	89	3.8	32	1.9	4	0.6	6742	9.9	13780	30	0.3
56-	43.2089-	106.4936-	2-	15-	0-	W09206	61900	-0.06	567	23090	54	-56	7.4	54	4.5	4	0.9	15530	5.2	17130	30	0.3
56-	43.2061-	106.4639-	2-	15-	0-	W09207	37460	-0.05	411	16800	55	153	4.8	36	2.4	4	0.7	7232	10.1	13360	29	0.4
56-	43.1969-	106.4433-	2-	15-	0-	W09208	58010	-0.07	599	22430	62	-65	6.4	51	4.2	3	0.9	14000	4.9	14860	26	0.3
56-	43.2203-	106.4425-	2-	15-	0-	W09209	40330	-0.03	416	17820	45	-51	3.8	31	2.2	4	0.6	7135	7.3	13790	26	0.3
56-	43.2358-	106.4433-	2-	15-	0-	W09210	69250	-0.06	631	23450	64	-57	8.3	65	5.1	4	0.9	18740	4.2	18090	32	0.4
56-	43.2397-	106.3947-	2-	15-	0-	W09211	46780	-0.05	476	17500	72	-61	6.8	37	3.3	4	0.9	10750	7.6	14810	35	0.4
56-	43.2369-	106.3967-	2-	15-	0-	W09212	36620	-0.05	381	12050	46	-56	3.7	28	2.2	2	0.8	7105	7.6	13300	26	0.3
56-	43.1842-	106.3925-	2-	15-	0-	W09213	48010	-0.04	574	16360	48	-68	4.0	35	1.8	3	0.7	8686	5.6	14410	27	0.3
56-	43.1789-	106.4083-	2-	15-	0-	W09214	47100	-0.05	543	20570	67	216	5.4	40	2.5	4	0.9	11150	10.1	12670	40	0.4
56-	43.1750-	106.4083-	2-	15-	0-	W09215	45830	-0.05	508	15050	71	-65	5.5	43	1.6	4	0.9	9567	10.9	14100	40	0.5
56-	43.1258-	106.3933-	2-	15-	0-	W09216	52900	-0.06	552	13440	49	-69	4.7	38	2.6	2	0.6	10380	4.9	18240	31	0.2
56-	43.1364-	106.4117-	2-	15-	0-	W09217	58060	-0.04	657	19100	49	-62	5.4	39	3.1	3	0.7	11390	5.8	19510	28	0.3
56-	43.0739-	106.3442-	2-	15-	0-	W09220	52580	-0.05	451	12830	58	-52	6.6	41	3.9	4	0.9	11680	6.7	16430	34	0.3
56-	43.0833-	106.3697-	2-	15-	0-	W09222	50100	-0.05	398	9143	65	-65	5.5	36	2.1	3	0.9	11670	6.9	15260	34	0.3
56-	43.0883-	106.4636-	2-	15-	0-	W09224	43620	-0.06	343	11660	51	348	4.7	39	2.5	3	0.8	8540	7.5	12740	28	0.3
56-	43.0758-	106.4508-	2-	15-	0-	W09225	42390	-0.04	343	9560	47	-50	4.2	30	2.5	3	0.6	6894	8.0	15240	29	0.3
56-	43.0608-	106.4881-	2-	15-	0-	W09226	43750	-0.04	428	13590	66	75	5.2	44	2.6	5	0.8	9555	11.6	13290	41	0.4
56-	43.0589-	106.4864-	2-	15-	0-	W09227	43190	-0.05	304	12740	64	-57	6.1	42	2.7	3	0.7	8670	8.4	12380	31	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.6828-	106.1450-	2-15-		0-	W09162		17730	283	5822	-22	-1	4.3	1.9	553	-1	-1	5.1	3209	85	-1.2	-37	0.627
56-43.7447-	106.0700-	2-15-		0-	W09163		13970	282	2243	30	-1	4.4	3.4	-169		-1	6.9	2433	61	2.1	33	0.488
56-43.7442-	106.0781-	2-15-		0-	W09164		14320	297	2109	52	1	6.9	5.0	-173	-1	-1	11.4	3020	67	3.1	77	0.312
56-43.7367-	106.0972-	2-15-		0-	W09165		16390	290	2102	35	-1	4.4	4.4	-198	-1	-1	8.6	2917	64	3.1	-28	0.416
56-43.7483-	106.1192-	2-15-		0-	W09167		7732	215	3472	-20	-1	3.7	2.4	-196	-1	-1	6.0	3069	56	-1.0	-32	0.542
56-43.7750-	106.0181-	2-15-		0-	W09169		17980	306	4783	29	-1	4.8	3.5	-197	-1	-1	9.1	2556	60	2.7	53	0.534
56-43.7753-	106.0211-	2-15-		0-	W09170		19500	298	23040	41	-1	6.9	5.9	-276	-1	-1	12.1	2674	59	3.1	57	1.074
56-43.7972-	106.0297-	2-15-		0-	W09171		13040	386	8113	28	-1	4.3	5.4	-268	-1	-1	11.5	3116	54	3.5	43	0.630
56-43.8158-	106.0542-	2-15-		0-	W09174		10050	269	2541	-17	-1	3.5	2.0	-200	-1	-1	6.1	2726	56	2.3	29	0.577
56-43.8175-	106.0558-	2-15-		0-	W09175		18000	273	4045	32	-1	4.7	3.7	-177		-1	9.1	3194	55	2.6	40	0.468
56-43.8450-	106.0178-	2-15-		0-	W09176		13600	229	3116	55	2	8.6	5.0	-172	-1	1	11.6	2805	91	3.0	80	0.251
56-43.8431-	106.0578-	2-15-		0-	W09177		15440	238	3289	56	-2	6.5	2.9	-208	-1	-1	7.4	3088	85	2.5	-59	0.405
56-43.8389-	106.0692-	2-15-		0-	W09178		11450	346	2568	35	-1	4.4	4.8	-183	-1	1	12.1	3385	52	3.3	-26	0.357
56-43.7725-	106.1711-	2-15-		0-	W09182		9051	273	3384	48	-1	5.6	3.8	-179		-1	7.9	2689	72	2.6		0.351
56-43.7742-	106.2039-	2-15-		0-	W09185		5685	250	3165	43	-1	4.4	3.7	-189		-1	7.7	1972	50	2.7	67	0.327
56-43.7297-	106.2022-	2-15-		0-	W09186		6146	218	2049	36	-2	4.0	2.4	-178	-1	-1	6.1	2560	53	2.3	71	0.436
56-43.7161-	106.1581-	2-15-		0-	W09187		9704	175	2286	41	-1	5.0	2.9	-148		-1	6.7	2862	76	2.8	-22	0.390
56-43.6939-	106.1975-	2-15-		0-	W09188		7085	245	2056	38	-1	4.5	-0.3	-152	-1	-1	7.0	2719	56	3.0	90	0.416
56-43.6719-	106.1908-	2-15-		0-	W09189		6754	272	1350	29	-1	4.6	4.5	-178	-1	-1	7.7	2943	56	4.0		0.477
56-43.6714-	106.1878-	2-15-		0-	W09190		8012	172	2218	-19	-2	5.6	1.7	-180	-1	1	6.0	2675	76	2.0	-40	0.447
56-43.6556-	106.2303-	2-15-		0-	W09191		8934	219	1964	36	-1	5.1	3.3	-167		-1	7.2	3511	79	2.8	64	0.404
56-43.6678-	106.2464-	2-15-		0-	W09192		8495	203	2029	47	-1	5.5	3.4	-149		-1	7.3	2619	72	3.0	-68	0.358
56-43.6947-	106.2489-	2-15-		0-	W09193		9116	127	1544	51	-1	5.1	3.9	-148	-1	-1	8.0	2834	59	3.1	57	0.361
56-43.3708-	106.3842-	2-15-		0-	W09194		18410	110	6574	35	-2	4.6	2.5	-175		-1	6.2	1881	83	2.0	106	0.361
56-43.3372-	106.3856-	2-15-		0-	W09195		23950	120	6457	36	-1	4.3	3.5	-147			6.8	2746	84	2.0	41	0.385
56-43.3367-	106.3878-	2-15-		0-	W09196		23970	134	6506	43	-1	6.0	4.0	-155		-1	8.7	2968	95	2.7	52	0.321
56-43.3064-	106.4731-	2-15-		0-	W09199		20150	142	6995	43	-1	5.6	4.4	-183	-1	-1	6.9	2499	99	1.9	103	0.372
56-43.3100-	106.4614-	2-15-		0-	W09200		23630	138	5178	34	-2	6.2	2.7	-182	-1	-1	6.6	2771	110	2.9	-29	0.408
56-43.3167-	106.4353-	2-15-		0-	W09201		20950	183	6615	34	-1	5.3	3.5	-169		-1	7.1	2906	95	2.3	56	0.351
56-43.3172-	106.4072-	2-15-		0-	W09202		31620	146	6430	37	-1	5.8	3.5	-157	-1	-1	7.6	2677	96	2.5	101	0.370
56-43.2881-	106.3964-	2-15-		0-	W09203		17870	392	5932	39	-2	7.6	3.9	-249	-1	-1	7.5	2657	72	3.0	61	0.372
56-43.2614-	106.4081-	2-15-		0-	W09204		27860	297	6615	-29	-3	9.1	4.2	-294	-1	-1	7.6	3356	119	-2.3	-87	0.442
56-43.2511-	106.3947-	2-15-		0-	W09205		16380	194	7512	23	-1	3.5	3.3	-169			6.8	2662	36	3.0	-32	0.431
56-43.2089-	106.4936-	2-15-		0-	W09206		29370	232	7021	46	-2	8.3	4.2	-203	-1	-1	8.9	3438	105	2.8	-23	0.338
56-43.2061-	106.4639-	2-15-		0-	W09207		17510	195	8554	31	2	4.1	4.3	-204	-1	-1	8.5	2324	34	3.4	75	0.352
56-43.1969-	106.4433-	2-15-		0-	W09208		24630	225	6827	-22	-2	7.3	3.3	-229	-1	1	8.1	3016	95	3.0	-42	0.360
56-43.2203-	106.4425-	2-15-		0-	W09209		16390	211	7526	27	-1	3.6	3.8	-169			7.1	2490	39	2.6	24	0.393
56-43.2358-	106.4433-	2-15-		0-	W09210		28070	265	6549	46	-2	9.8	4.4	-212	-1	-1	9.0	3381	116	2.3	-73	0.348
56-43.2397-	106.3947-	2-15-		0-	W09211		14540	312	6882	40	2	5.6	5.1	-225		-1	10.0	2503	43	3.4	-60	0.304
56-43.2369-	106.3967-	2-15-		0-	W09212		11970	194	6963	-16	-2	3.9	2.5	-192		-1	6.6	2026	31	3.7	-24	0.405
56-43.1842-	106.3925-	2-15-		0-	W09213		13600	221	14160	28	-1	4.0	3.6	-200		-1	7.1	2610	49	2.0	39	0.344
56-43.1789-	106.4083-	2-15-		0-	W09214		14740	256	12160	34	-1	5.0	4.4	-201	-1	-1	8.4	3091	48	2.6	57	0.333
56-43.1750-	106.4083-	2-15-		0-	W09215		9962	228	9952	37	-1	4.4	5.3	-209	-1	-1	8.9	2922	45	3.4	67	0.304
56-43.1258-	106.3933-	2-15-		0-	W09216		11590	220	9616	45	-2	5.4	2.9	-229	-1	-1	6.8	2288	56	-1.3	-30	0.382
56-43.1364-	106.4117-	2-15-		0-	W09217		19960	245	9744	42	-1	5.5	3.4	-205		1	7.1	2890	64	2.0	45	0.399
56-43.0739-	106.3442-	2-15-		0-	W09220		14980	264	5967	39	-2	6.2	4.0	-193	-1	-1	8.7	2571	62	2.3	-58	0.297
56-43.0833-	106.3697-	2-15-		0-	W09222		12960	223	9010	37	-2	5.4	4.1	-215		-1	7.9	2475	47	2.6	82	0.289
56-43.0883-	106.4636-	2-15-		0-	W09224		21260	209	8526	50	-2	5.0	3.4	-228	-1	-1	9.5	2509	46	3.3	-26	0.388
56-43.0758-	106.4508-	2-15-		0-	W09225		10480	216	6867	33	-1	3.9	3.6	-171			7.2	2299	35	2.7	-37	0.417
56-43.0608-	106.4881-	2-15-		0-	W09226		15030	237	7666	41	-1	5.1	4.4	-179	-1	-1	10.8	2600	45	3.2	75	0.334
56-43.0589-	106.4864-	2-15-		0-	W09227		12710	216	7064	48	2	4.9	4.7	-202	-1	-1	10.1	2146	38	3.9	57	0.297

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	RPHLATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.0247-106.4906-2-15-						0-W09228-09/14/77- 9-			17-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.74
56-43.0228-106.4439-2-15-						0-W09229-09/14/77- 9-			17-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.65
56-43.0647-106.3900-2-15-						0-W09230-09/14/77-10-			19-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.51
56-43.0297-106.3894-2-15-						0-W09231-09/14/77-11-			20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.54
56-43.0178-106.3622-2-15-						0-W09232-09/14/77-11-			20-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.61
56-43.0069-106.2172-2-15-						0-W09236-09/14/77-12-			20-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.31
56-43.0358-106.2119-2-15-						0-W09237-09/14/77-12-			20-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.35
56-43.0356-106.2219-2-15-						0-W09238-09/14/77-12-			20-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.45
56-43.0850-106.2394-2-15-						0-W09239-09/14/77-12-			20-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.24
56-43.0819-106.1817-2-15-						0-W09241-09/14/77-13-			20-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.59
56-43.0897-106.1733-2-15-						0-W09242-09/14/77-13-			20-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.04
56-43.1117-106.1833-2-15-						0-W09243-09/14/77-13-			20-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.68
56-43.1139-106.1856-2-15-						0-W09244-09/14/77-13-			20-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.65
56-43.1136-106.1886-2-15-						0-W09245-09/14/77-13-			20-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.64
56-43.1106-106.0933-2-15-						0-W09249-09/14/77-14-			20-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.77
56-43.1294-106.0617-2-15-						0-W09250-09/14/77-15-			20-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.55
56-43.1386-106.0306-2-15-						0-W09251-09/14/77-15-			20-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.68
56-43.1692-106.1039-2-15-						0-W09252-09/14/77-15-			20-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.97
56-43.1944-106.0364-2-15-						0-W09254-09/14/77-16-			20-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.29
56-43.1958-106.0319-2-15-						0-W09255-09/14/77-16-			20-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.08
56-43.2003-106.0419-2-15-						0-W09256-09/14/77-16-			20-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.09
56-43.2075-106.0356-2-15-						0-W09257-09/14/77-16-			20-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.44
56-43.2186-106.0489-2-15-						0-W09258-09/14/77-17-			18-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.23
56-43.2242-106.0714-2-15-						0-W09259-09/14/77-17-			18-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.54
56-43.2267-106.0686-2-15-						0-W09260-09/14/77-17-			18-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.94
56-43.2289-106.0822-2-15-						0-W09261-09/14/77-17-			18-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.07
56-43.2356-106.1097-2-15-						0-W09262-09/14/77-17-			18-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.82
56-43.2378-106.1136-2-15-						0-W09263-09/14/77-18-			17-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.66
56-43.2028-106.1428-2-15-						0-W09264-09/14/77-18-			17-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.80
56-43.1806-106.2142-2-15-						0-W09266-09/14/77-18-			17-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.64
56-43.2294-106.1931-2-15-						0-W09267-09/14/77-19-			16-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.81
56-43.2456-106.2044-2-15-						0-W09268-09/14/77-19-			16-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.68
56-43.0242-106.3069-2-15-						0-W09269-09/15/77- 7-			13-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.92
56-43.0978-106.2536-2-15-						0-W09272-09/15/77- 8-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-1-	-	-													2.28
56-43.0683-106.3136-2-15-						0-W09274-09/15/77- 8-			15-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.99
56-43.0897-106.3050-2-15-						0-W09276-09/15/77- 8-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.25
56-43.1511-106.2700-2-15-						0-W09277-09/15/77- 9-			16-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.34
56-43.1553-106.2650-2-15-						0-W09279-09/15/77- 9-			15-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.49
56-43.2661-106.2144-2-15-						0-W09281-09/15/77-10-			17-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.96
56-43.3231-106.2372-2-15-						0-W09282-09/15/77-10-			17-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.28
56-43.3611-106.2347-2-15-						0-W09283-09/15/77-10-			17-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.09
56-43.3258-106.2114-2-15-						0-W09284-09/15/77-10-			17-		-	-	-	-	-	18-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.75
56-43.3408-106.1958-2-15-						0-W09285-09/15/77-10-			17-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.87
56-43.3239-106.1656-2-15-						0-W09286-09/15/77-10-			17-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.85
56-43.2903-106.1869-2-15-						0-W09287-09/15/77-11-			18-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.65
56-43.2697-106.1836-2-15-						0-W09288-09/15/77-11-			18-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.75
56-43.3092-106.1469-2-15-						0-W09289-09/15/77-11-			18-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.19
56-43.3061-106.1469-2-15-						0-W09290-09/15/77-11-			18-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													2.65
56-43.2922-106.1433-2-15-						0-W09291-09/15/77-12-			18-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.10
56-43.2886-106.1458-2-15-						0-W09292-09/15/77-12-			18-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													3.41
56-43.2800-106.1228-2-15-						0-W09293-09/15/77-12-			18-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-													5.36

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.0247-106.4906-2-15-						0-W09228	-5	-5	-5	23	-20	-15	13	-10	-15	2	25
56-43.0228-106.4439-2-15-						0-W09229	-5	-5	-5	18	-20	-15	11	-10	-15	2	28
56-43.0647-106.3900-2-15-						0-W09230	-5	-5	-5	12	-20	-15	8	-10	-15	2	29
56-43.0297-106.3894-2-15-						0-W09231	-5	-5	-5	21	-20	-15	5	-10	-15	2	22
56-43.0178-106.3622-2-15-						0-W09232	-5	-5	-5	19	-20	-15	9	-10	-15	2	22
56-43.0069-106.2172-2-15-						0-W09236	-5	-5	-5	13	-20	-15	5	-10	-15	2	21
56-43.0358-106.2119-2-15-						0-W09237	-5	-5	-5	16	-20	-15	9	-10	-15	1	14
56-43.0356-106.2219-2-15-						0-W09238	-5	-5	-5	12	-20	-15	-5	-10	-15	2	18
56-43.0850-106.2394-2-15-						0-W09239	-5	-5	-5	23	-20	-15	9	-10	-15	2	16
56-43.0819-106.1817-2-15-						0-W09241	-5	-5	-5	12	-20	-15	13	-10	-15	2	27
56-43.0897-106.1733-2-15-						0-W09242	-5	6	-5	10	-20	-15	5	-10	-15	2	21
56-43.1117-106.1833-2-15-						0-W09243	-5	-5	-5	17	-20	-15	9	-10	-15	2	28
56-43.1139-106.1856-2-15-						0-W09244	-5	-5	-5	18	-20	20	11	-10	-15	2	18
56-43.1136-106.1886-2-15-						0-W09245	-5	-5	-5	15	-20	-15	8	-10	-15	2	23
56-43.1106-106.0933-2-15-						0-W09249	-5	-5	-5	28	-20	22	12	-10	-15	2	21
56-43.1294-106.0617-2-15-						0-W09250	-5	-5	-5	15	-20	-15	-5	-10	-15	1	11
56-43.1386-106.0306-2-15-						0-W09251	-5	-5	-5	12	-20	-15	5	-10	-15	1	13
56-43.1692-106.1039-2-15-						0-W09252	-5	-5	-5	21	-20	-15	-5	-10	-15	1	14
56-43.1944-106.0364-2-15-						0-W09254	-5	-5	-5	18	-20	16	10	-10	-15	2	20
56-43.1958-106.0319-2-15-						0-W09255	-5	-5	-5	12	-20	-15	8	-10	-15	2	14
56-43.2003-106.0419-2-15-						0-W09256	-5	-5	-5	15	-20	-15	9	-10	-15	2	24
56-43.2075-106.0356-2-15-						0-W09257	-5	-5	-5	12	-20	-15	13	-10	-15	2	23
56-43.2186-106.0489-2-15-						0-W09258	-5	-5	-5	17	-20	-15	10	-10	-15	1	21
56-43.2242-106.0714-2-15-						0-W09259	-5	-5	-5	13	-20	15	11	-10	-15	1	16
56-43.2767-106.0686-2-15-						0-W09260	-5	-5	-5	15	-20	-15	9	-10	-15	1	20
56-43.2289-106.0822-2-15-						0-W09261	-5	5	-5	-10	-20	-15	7	-10	-15	2	20
56-43.2356-106.1097-2-15-						0-W09262	-5	-5	-5	24	-20	-15	-5	-10	-15	2	18
56-43.2378-106.1136-2-15-						0-W09263	-5	-5	-5	12	-20	-15	-5	-10	-15	2	26
56-43.2028-106.1428-2-15-						0-W09264	-5	-5	-5	13	-20	-15	6	-10	-15	2	15
56-43.1806-106.2142-2-15-						0-W09266	-5	-5	-5	24	-20	-15	13	-10	-15	2	27
56-43.2294-106.1931-2-15-						0-W09267	-5	-5	-5	15	-20	-15	10	-10	-15	2	29
56-43.2456-106.2044-2-15-						0-W09268	-5	-5	-5	21	-20	-15	12	-10	-15	2	36
56-43.0242-106.3069-2-15-						0-W09269	-5	-5	-5	18	-20	-15	13	-10	-15	2	32
56-43.0978-106.2536-2-15-						0-W09272	-5	-5	-5	19	-20	-15	7	-10	-15	1	25
56-43.0683-106.3136-2-15-						0-W09274	-5	-5	-5	26	-20	-15	5	-10	-15	2	23
56-43.0897-106.3050-2-15-						0-W09276	-5	-5	-5	18	-20	15	12	-10	-15	-1	28
56-43.1511-106.2700-2-15-						0-W09277	-5	-5	-5	16	-20	-15	8	-10	-15	2	30
56-43.1553-106.2650-2-15-						0-W09278	-5	-5	-5	24	-20	-15	7	-10	-15	2	22
56-43.2661-106.2144-2-15-						0-W09281	-5	-5	-5	25	-20	16	11	-10	-15	2	35
56-43.3231-106.2372-2-15-						0-W09282	-5	-5	-5	20	-20	-15	8	-10	-15	2	38
56-43.3611-106.2347-2-15-						0-W09283	-5	-5	-5	17	-20	-15	6	-10	-15	2	20
56-43.3258-106.2114-2-15-						0-W09284	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	40
56-43.3408-106.1958-2-15-						0-W09285	-5	-5	-5	14	-20	-15	11	-10	-15	2	25
56-43.3239-106.1656-2-15-						0-W09286	-5	-5	-5	25	-20	17	12	-10	-15	2	31
56-43.2903-106.1869-2-15-						0-W09287	-5	-5	-5	21	-20	25	14	-10	-15	2	35
56-43.2697-106.1836-2-15-						0-W09288	-5	-5	-5	15	-20	-15	15	-10	-15	3	36
56-43.3092-106.1469-2-15-						0-W09289	-5	-5	-5	29	-20	-15	13	-10	17	2	48
56-43.3061-106.1469-2-15-						0-W09290	-5	-5	-5	13	-20	17	6	-10	-15	2	38
56-43.2922-106.1433-2-15-						0-W09291	-5	-5	-5	14	-20	-15	9	-10	-15	2	18
56-43.2886-106.1458-2-15-						0-W09292	-5	-5	-5	13	-20	15	11	-10	-15	2	43
56-43.2800-106.1228-2-15-						0-W09293	-5	-5	-5	24	-20	24	14	-10	-15	2	43

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.0247-106.4906-2-15-						0-W09229	46340	-0.04	414	6894	48	-63	4.7	30	2.6	3	0.9	9026	6.2	16240	26	0.3
56-43.0228-106.4439-2-15-						0-W09229	44880	-0.04	487	11600	46	-50	4.0	29	2.4	4	0.7	7526	7.0	15090	28	0.4
56-43.0647-106.3900-2-15-						0-W09230	51220	-0.05	558	7524	59	-61	5.6	35	2.5	3	0.8	11690	6.7	15740	35	0.3
56-43.0297-106.3894-2-15-						0-W09231	50980	-0.05	467	22840	67	-74	5.4	33	1.8	3	0.9	10500	8.2	11670	33	0.3
56-43.0178-106.3622-2-15-						0-W09232	50640	-0.06	534	6026	51	-67	4.6	34	2.2	2	0.9	10050	6.8	17960	34	0.2
56-43.0069-106.2172-2-15-						0-W09235	40650	-0.03	498	8877	41	-47	3.5	21	1.5	3	0.7	6355	5.9	16070	25	0.3
56-43.0359-106.2119-2-15-						0-W09237	38680	-0.04	554	8687	50	-50	4.3	30	2.0	3	0.7	7028	8.4	15960	30	0.3
56-43.0356-106.2219-2-15-						0-W09238	42020	-0.05	522	6385	56	-55	5.8	32	2.2	2	0.9	7791	8.0	14920	33	0.3
56-43.0850-106.2394-2-15-						0-W09239	41870	-0.06	459	9174	44	284	4.3	28	1.9	3	0.8	7783	5.3	15370	23	0.2
56-43.0819-106.1817-2-15-						0-W09241	51160	-0.04	572	11170	55	-51	5.1	30	2.5	4	0.8	8842	6.4	15780	29	0.3
56-43.0897-106.1733-2-15-						0-W09242	40020	-0.03	505	15750	46	-49	4.3	24	1.7	3	0.7	7074	5.5	14310	27	0.2
56-43.1117-106.1833-2-15-						0-W09243	52800	-0.05	600	12220	61	-61	6.1	40	3.3	3	0.9	10770	7.2	13880	33	0.3
56-43.1139-106.1856-2-15-						0-W09244	50300	-0.06	517	11410	53	-63	5.2	36	3.1	3	0.8	9463	6.2	14590	31	0.2
56-43.1136-106.1886-2-15-						0-W09245	52350	-0.04	570	12150	52	62	4.9	35	2.7	4	0.8	9071	6.1	16290	29	0.3
56-43.1106-106.0933-2-15-						0-W09249	49110	-0.05	562	15030	59	-50	6.3	34	2.9	4	0.9	10250	7.3	14940	30	0.3
56-43.1294-106.0617-2-15-						0-W09250	34300	-0.04	516	16420	53	-48	4.5	28	1.7	3	0.7	6480	8.9	13300	30	0.4
56-43.1386-106.0306-2-15-						0-W09251	32350	-0.05	434	15360	47	-50	3.1	20	1.9	3	0.7	5720	10.3	13140	25	0.3
56-43.1692-106.1039-2-15-						0-W09252	32740	-0.04	608	14320	47	82	3.8	29	1.7	3	0.7	7192	11.0	11610	30	0.3
56-43.1944-106.0364-2-15-						0-W09254	35420	-0.04	679	12100	69	-34	4.9	34	2.4	4	0.9	9735	16.1	12320	41	0.4
56-43.1958-106.0319-2-15-						0-W09255	30080	-0.04	429	12980	60	45	4.4	37	2.6	4	0.8	7706	14.7	12270	32	0.4
56-43.2003-106.0419-2-15-						0-W09256	44530	-0.06	423	14400	55	-42	4.9	35	2.8	3	0.8	9298	9.9	14600	28	0.3
56-43.2075-106.0356-2-15-						0-W09257	37340	-0.04	642	15320	60	131	4.6	32	1.6	4	0.7	8502	13.1	12250	32	0.3
56-43.2186-106.0489-2-15-						0-W09258	37470	-0.04	628	15470	57	-33	5.3	38	1.8	4	0.9	9592	13.7	14030	36	0.4
56-43.2242-106.0714-2-15-						0-W09259	25600	-0.04	574	13000	58	-36	5.2	36	1.5	2	0.8	8460	10.0	10750	32	0.3
56-43.2267-106.0686-2-15-						0-W09260	36040	-0.05	526	13860	45	-36	4.3	33	2.7	3	0.7	8330	8.8	14990	30	0.3
56-43.2289-106.0822-2-15-						0-W09261	37470	-0.04	668	14750	54	51	3.8	29	1.8	3	0.7	8252	10.4	12970	31	0.3
56-43.2356-106.1097-2-15-						0-W09262	41530	-0.04	566	15120	59	47	5.6	37	2.7	4	0.8	9757	9.2	14720	34	0.4
56-43.2378-106.1136-2-15-						0-W09263	38350	-0.05	413	18510	57	204	6.2	35	2.9	3	0.8	9140	9.0	12830	34	0.3
56-43.2028-106.1428-2-15-						0-W09264	38790	-0.05	492	13740	48	-48	4.2	26	-1.0	3	0.8	8169	10.0	16080	29	0.3
56-43.1806-106.2142-2-15-						0-W09266	53630	-0.04	557	18780	54	-53	4.9	38	3.1	4	0.7	10030	4.9	15410	29	0.3
56-43.2294-106.1931-2-15-						0-W09267	65240	-0.05	516	24470	56	-67	8.0	47	3.2	4	0.9	16140	4.5	13580	38	0.3
56-43.2456-106.2044-2-15-						0-W09268	54230	-0.05	526	21320	69	131	7.2	50	3.1	3	0.9	13880	6.9	15900	38	0.4
56-43.0242-106.3069-2-15-						0-W09269	53650	-0.05	475	15020	50	-58	4.8	38	2.9	2	0.9	10600	6.2	16620	35	0.4
56-43.0978-106.2536-2-15-						0-W09272	48850	-0.04	559	6576	46	55	3.7	35	2.0	3	0.7	8595	6.1	17750	25	0.3
56-43.0683-106.3136-2-15-						0-W09274	45020	-0.05	515	16660	58	150	5.7	33	2.9	3	1.0	9110	7.6	14800	34	0.3
56-43.0897-106.3050-2-15-						0-W09276	33720	-0.05	514	14550	53	180	5.8	38	2.2	2	0.7	7438	9.0	10780	35	0.3
56-43.1511-106.2700-2-15-						0-W09277	53700	-0.06	589	8690	48	-70	4.7	38	2.8	3	0.7	11450	5.1	16110	24	0.3
56-43.1553-106.2650-2-15-						0-W09279	58120	-0.05	656	10610	47	-62	5.5	39	2.5	3	0.6	12600	6.4	18400	29	0.3
56-43.2661-106.2144-2-15-						0-W09281	60220	-0.05	565	20300	64	77	6.8	44	3.6	4	1.0	13720	6.0	14440	37	0.4
56-43.3231-106.2372-2-15-						0-W09282	43640	-0.06	374	19500	71	261	7.0	37	2.9	3	0.8	10930	9.3	12850	32	0.4
56-43.3611-106.2347-2-15-						0-W09283	39560	-0.05	496	13970	60	-63	4.2	26	2.2	3	0.8	8214	12.5	12580	32	0.4
56-43.3258-106.2114-2-15-						0-W09284	54600	-0.04	569	24620	47	-54	6.1	43	2.7	4	0.7	12310	5.4	16650	27	0.3
56-43.3408-106.1958-2-15-						0-W09285	49720	-0.05	582	25270	61	111	6.3	41	2.6	4	0.9	12680	8.0	15120	31	0.4
56-43.3239-106.1656-2-15-						0-W09286	47980	-0.05	421	34120	66	-62	6.6	55	3.0	3	0.8	12090	8.3	12820	31	0.4
56-43.2903-106.1869-2-15-						0-W09287	55050	-0.07	600	24020	46	-66	6.2	49	3.4	3	0.9	14900	4.4	16740	29	0.2
56-43.2697-106.1836-2-15-						0-W09288	59280	-0.05	590	23170	49	-58	6.0	40	3.2	4	0.7	13200	4.7	16820	25	0.3
56-43.3092-106.1469-2-15-						0-W09289	57940	-0.06	591	24770	50	389	7.6	42	3.9	4	0.8	14740	5.9	16490	33	0.4
56-43.3061-106.1469-2-15-						0-W09290	44810	-0.05	397	29250	54	8785	6.3	60	2.7	3	0.8	10750	7.3	14430	29	0.4
56-43.2922-106.1433-2-15-						0-W09291	34850	-0.05	673	18030	59	73	3.9	32	1.7	3	0.8	9133	13.5	13540	37	0.3
56-43.2886-106.1458-2-15-						0-W09292	46270	-0.05	512	20130	52	453	5.3	37	2.5	3	0.7	9548	6.3	13610	29	0.3
56-43.2800-106.1228-2-15-						0-W09293	102700	-0.11	876	39580	90	-124	10.2	90	5.1	5	1.5	25490	8.9	32770	61	0.5

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	To	Tb	Th	Ti	V	Yb	Zn	
56-	43.0247-	106.4906-	2-	15-	0-	W09228	10420	231	7141	44	-2	5.2	2.9	-225	-1	-1	7.7	2399	42	3.1	-27	0.356
56-	43.0228-	106.4439-	2-	15-	0-	W09229	9217	211	7022	31	-1	4.3	3.3	-172		-1	8.0	2292	43	2.7	45	0.331
56-	43.0647-	106.3900-	2-	15-	0-	W09230	14630	297	9191	44	-1	5.7	4.1	-209	-1	-1	8.5	2438	57	2.5	70	0.295
56-	43.0297-	106.3894-	2-	15-	0-	W09231	14450	329	9987	38	-2	4.7	4.9	-254		-1	8.7	1905	50	4.0	76	0.292
56-	43.0178-	106.3622-	2-	15-	0-	W09232	7979	295	7571	35	-2	5.5	2.7	-250	-1	-1	8.6	2306	51	2.4	-32	0.303
56-	43.0069-	106.2172-	2-	15-	0-	W09236	7300	217	6519	29	-1	3.2	2.9	-167			5.9	2018	44	2.3	32	0.392
56-	43.0358-	106.2119-	2-	15-	0-	W09237	7506	210	6816	30	-1	3.7	3.4	-166			7.6	2202	40	2.3	42	0.309
56-	43.0356-	106.2219-	2-	15-	0-	W09238	6860	245	6193	46	-1	4.4	4.2	-201	-1	-1	8.1	2808	47	2.1	-60	0.302
56-	43.0850-	106.2394-	2-	15-	0-	W09239	9180	260	7977	-18	-2	4.0	2.6	-242	-1	-1	6.9	2221	50	2.2	75	0.325
56-	43.0819-	106.1617-	2-	15-	0-	W09241	12900	262	6169	39	-1	4.6	3.6	-192		-1	7.4	2780	56	1.8	47	0.350
56-	43.0897-	106.1733-	2-	15-	0-	W09242	11300	203	7040	27	-1	3.6	2.8	-166			6.1	1654	38	1.8	-39	0.334
56-	43.1117-	106.1833-	2-	15-	0-	W09243	11670	269	6079	43	-2	5.8	4.4	-225	-1	-1	9.7	3196	57	3.3	93	0.276
56-	43.1139-	106.1856-	2-	15-	0-	W09244	11220	256	6497	33	-2	5.2	3.7	-230	-1	-1	7.9	2321	49	1.9	-66	0.335
56-	43.1136-	106.1886-	2-	15-	0-	W09245	12740	273	5915	49	-1	4.9	4.0	-197		-1	8.0	2888	53	2.0	54	0.330
56-	43.1106-	106.0933-	2-	15-	0-	W09249	14650	233	5316	28	-1	5.9	3.7	-179	-1	-1	9.3	2713	50	3.3	89	0.298
56-	43.1294-	106.0617-	2-	15-	0-	W09250	11550	178	4770	30	-1	3.6	4.8	-174		-1	8.2	2056	39	2.5	42	0.311
56-	43.1386-	106.0306-	2-	15-	0-	W09251	11150	164	5012	26	-1	3.3	2.3	-177	-1	-1	5.6	2102	36	2.7	-33	0.479
56-	43.1697-	106.1039-	2-	15-	0-	W09252	11420	269	7332	27	-1	3.3	3.2	-168	1		7.6	2503	42	2.9	27	0.391
56-	43.1944-	106.0364-	2-	15-	0-	W09254	11940	304	1858	45	-1	4.4	4.1	-167	-1	1	10.0	2562	48	2.8	-47	0.329
56-	43.1958-	106.0319-	2-	15-	0-	W09255	9447	240	1655	30	-1	3.4	4.4	-174	-1	-1	9.0	2168	41	3.0	37	0.342
56-	43.2003-	106.0419-	2-	15-	0-	W09256	13130	274	2102	-18	-2	4.7	2.9	-211	-1	-1	9.1	2740	50	2.4	-33	0.340
56-	43.2075-	106.0356-	2-	15-	0-	W09257	13130	314	2797	28	-1	3.7	4.5	-184			9.4	2995	46	3.3	24	0.366
56-	43.2186-	106.0486-	2-	15-	0-	W09258	11670	312	1588	44	1	4.5	4.2	-171		-1	9.6	2510	46	3.0	52	0.336
56-	43.2242-	106.0714-	2-	15-	0-	W09259	9182	307	1276	31	-1	3.2	4.3	-191		-1	9.0	2398	37	3.2	59	0.282
56-	43.2267-	106.0686-	2-	15-	0-	W09260	12810	251	1449	-16	-2	4.2	3.1	-184		-1	7.6	2213	44	2.9	49	0.387
56-	43.2289-	106.0822-	2-	15-	0-	W09261	13730	276	2109	29	-1	3.7	4.0	-168	-1		8.3	2916	49	2.9	29	0.370
56-	43.2356-	106.1097-	2-	15-	0-	W09262	13820	267	2700	37	-1	4.8	4.3	-167	-1	-1	8.3	2612	48	3.0	66	0.340
56-	43.2378-	106.1136-	2-	15-	0-	W09263	16920	259	14760	31	-2	4.6	4.8	-261	-1	-1	8.6	2395	39	2.9	48	0.426
56-	43.2028-	106.1478-	2-	15-	0-	W09264	13130	246	3362	41	-2	4.3	2.8	-199	-1	-1	7.3	2959	50	2.6		0.384
56-	43.1906-	106.2142-	2-	15-	0-	W09266	15150	290	5942	39	-1	5.0	3.3	-203		-1	7.8	2885	60	2.5	48	0.338
56-	43.2294-	106.1931-	2-	15-	0-	W09267	22250	309	9986	51	-2	7.6	4.2	400	-1	-1	8.9	2897	83	2.7	87	0.316
56-	43.2456-	106.2044-	2-	15-	0-	W09268	19370	256	9628	36	-2	6.3	4.9	-239	-1	-1	10.1	2790	60	3.5	105	0.265
56-	43.0242-	106.3069-	2-	15-	0-	W09269	14950	270	5632	37	-2	5.7	2.5	-223	-1	-1	8.8	2705	55	2.8	-62	0.332
56-	43.0978-	106.2536-	2-	15-	0-	W09272	8882	219	10380	33	-1	4.2	3.1	235		-1	6.0	2337	49	2.4	92	0.380
56-	43.0683-	106.3136-	2-	15-	0-	W09274	15100	277	11840	47	-1	5.2	3.6	-212	-1	-1	8.7	2867	49	3.0	-26	0.344
56-	43.0897-	106.3056-	2-	15-	0-	W09276	15100	215	32110	-16	-2	3.9	5.0	-324	-1	-1	7.6	1711	38	3.0	61	0.428
56-	43.1511-	106.2700-	2-	15-	0-	W09277	10040	182	9583	38	-2	5.8	-3.4	-221	-1	-1	6.4	2774	61	-1.4	77	0.366
56-	43.1553-	106.2656-	2-	15-	0-	W09279	14770	277	9279	39	-1	6.1	3.3	254		-1	7.6	2803	72	2.5	-54	0.328
56-	43.2661-	106.2144-	2-	15-	0-	W09281	20220	266	9712	49	-2	7.0	4.3	352	-1	-1	10.3	2896	66	3.2	78	0.287
56-	43.3231-	106.2372-	2-	15-	0-	W09282	17940	267	20330	41	-2	5.4	4.8	-287	-1	-1	9.1	2369	48	2.7	88	0.360
56-	43.3611-	106.2347-	2-	15-	0-	W09283	12600	237	8260	40	-2	3.8	3.6	-214	-1	-1	8.7	2950	41	2.6	36	0.355
56-	43.3258-	106.2114-	2-	15-	0-	W09284	25070	260	7860	33	-1	5.9	3.5	-192		-1	6.9	3025	84	2.4	59	0.399
56-	43.3408-	106.1958-	2-	15-	0-	W09285	19730	287	9382	51	-1	5.9	4.2	289		-1	8.3	3065	56	2.7	88	0.346
56-	43.3239-	106.1656-	2-	15-	0-	W09286	24020	244	7063	38	-2	5.8	4.5	-220	-1	-1	8.8	2475	55	3.5	84	0.324
56-	43.2903-	106.1869-	2-	15-	0-	W09287	28420	247	7497	42	-2	7.0	3.1	-236	-1	-1	8.1	2584	84	1.9	-36	0.327
56-	43.2697-	106.1836-	2-	15-	0-	W09288	25800	267	7880	35	-1	6.5	3.5	-204		-1	7.0	3320	89	1.8	58	0.393
56-	43.3092-	106.1469-	2-	15-	0-	W09289	28890	283	16200	40	-2	7.3	4.1	522	-1	-1	9.3	3168	75	1.9	104	0.343
56-	43.3061-	106.1469-	2-	15-	0-	W09290	27020	190	14120	41	2	5.2	4.1	-263	-1	-1	8.9	2411	47	2.9	48	0.298
56-	43.2922-	106.1433-	2-	15-	0-	W09291	11480	318	3108	32	-2	3.8	3.0	-216	-1	-1	8.3	2781	44	3.1	77	0.373
56-	43.2886-	106.1458-	2-	15-	0-	W09292	25600	255	31340	28	-1	4.7	3.5	-306		-1	7.8	2721	52	2.4	53	0.437
56-	43.2900-	106.1228-	2-	15-	0-	W09293	34580	482	15180	86	-4	12.7	5.9	-440	-1	-2	14.9	4944	127	3.9	-60	0.360

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.3039-106.0761-2-15-						0-W09294-09/15/77-12-			18-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.65
56-43.3386-106.1192-2-15-						0-W09295-09/15/77-13-			19-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.43
56-43.2906-106.0014-2-15-						0-W09296-09/16/77- 8-			15-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.49
56-43.3014-106.0022-2-15-						0-W09297-09/16/77- 8-			15-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.49
56-43.3194-106.0014-2-15-						0-W09298-09/16/77- 8-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.24
56-43.3372-106.0033-2-15-						0-W09299-09/16/77- 8-			15-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.18
56-43.3442-106.0086-2-15-						0-W09300-09/16/77- 9-			16-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.63
56-43.3719-106.0056-2-15-						0-W09301-09/16/77- 9-			16-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.95
56-43.3853-106.0308-2-15-						0-W09302-09/16/77- 9-			16-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.73
56-43.3981-106.0475-2-15-						0-W09303-09/16/77- 9-			16-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.19
56-43.4067-106.0067-2-15-						0-W09304-09/16/77-10-			16-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.53
56-43.4214-106.0111-2-15-						0-W09305-09/16/77-10-			16-		-	-	-	-	-	46-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.22
56-43.4586-106.0072-2-15-						0-W09307-09/16/77-10-			16-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.35
56-43.4550-106.0361-2-15-						0-W09308-09/16/77-11-			17-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.51
56-43.4928-106.0308-2-15-						0-W09309-09/16/77-11-			17-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.53
56-43.4947-106.0342-2-15-						0-W09310-09/16/77-11-			17-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.36
56-43.5331-106.0208-2-15-						0-W09312-09/16/77-12-			18-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.36
56-43.5336-106.0247-2-15-						0-W09313-09/16/77-12-			18-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-43.5772-106.0425-2-15-						0-W09316-09/16/77-13-			18-		-	-	-	-	-	18-1-7-4-6-	-1-	-2-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.61
56-43.5950-106.0619-2-15-						0-W09318-09/16/77-14-			18-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.35
56-43.6089-106.0758-2-15-						0-W09321-09/16/77-15-			18-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.83
56-43.5661-106.0806-2-15-						0-W09323-09/16/77-16-			17-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.47
56-43.5464-106.0572-2-15-						0-W09324-09/16/77-16-			18-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.58
56-43.4225-106.1061-2-11-						0-W09325-09/17/77- 8-			15-	10.0-	-	-	6.8-	3500-		9-1-7-4-6-3-3-1-		-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
56-43.4292-106.1167-2-11-						0-W09326-09/17/77- 8-			15-	9.0-	-	-	6.8-	3400-		9-1-7-4-6-3-3-1-		-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
56-43.4047-106.1678-2-15-						0-W09327-09/17/77- 9-			15-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.79
56-43.3600-106.0847-2-15-						0-W09329-09/17/77- 9-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
56-43.3689-106.1183-2-15-						0-W09330-09/17/77-10-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.99
56-43.3864-106.1181-2-15-						0-W09331-09/17/77-10-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.79
56-43.3586-106.1583-2-15-						0-W09332-09/17/77-11-			15-		-	-	-	-	-	23-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.22
56-43.3703-106.1922-2-15-						0-W09333-09/17/77-11-			15-		-	-	-	-	-	23-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.17
56-43.3939-106.2369-2-15-						0-W09334-09/17/77-11-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.56
56-43.4400-106.2008-2-15-						0-W09335-09/17/77-12-			15-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.39
56-43.4378-106.1508-2-15-						0-W09336-09/17/77-12-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.22
56-43.4642-106.1469-2-15-						0-W09337-09/17/77-13-			15-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.65
56-43.4492-106.1931-2-15-						0-W09338-09/17/77-13-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.22
56-43.4542-106.2333-2-15-						0-W09339-09/17/77-14-			15-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.98
56-43.4792-106.1158-2-12-						0-W09341-09/17/77-15-			15-	10.0-	-	-	6.8-	1500-		11-1-7-4-6-3-3-1-		-4-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.08
56-43.4861-106.2253-2-15-						0-W09342-09/17/77-15-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-43.1958-107.5153-2-15-						0-W09346-09/23/77- 9-			10-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.26
56-43.1583-107.6514-2-15-						0-W09347-09/23/77- 9-			10-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.52
56-43.1656-107.6572-2-15-						0-W09348-09/23/77-10-			11-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.11
56-43.1583-107.6958-2-15-						0-W09349-09/23/77-10-			11-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.28
56-43.1758-107.7211-2-15-						0-W09352-09/23/77-11-			12-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.29
56-43.2617-107.7119-2-15-						0-W09354-09/23/77-11-			12-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.18
56-43.3333-107.7172-2-15-						0-W09356-09/23/77-11-			12-		-	-	-	-	-	9-1-7-5-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.19
56-43.3681-107.7192-2-15-						0-W09359-09/23/77-13-			14-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.93
56-43.3692-107.7161-2-15-						0-W09360-09/23/77-13-			14-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.12
56-43.2222-107.9675-2-15-						0-W09361-09/23/77-14-			14-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.35
56-43.1906-107.9308-2-15-						0-W09362-09/23/77-15-			14-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.71
56-43.1878-107.9272-2-15-						0-W09363-09/23/77-15-			14-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.01

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.3039-106.0761-2-15-						0-W09294	-5	-5	-5	20	-20	-15	8	-10	-15	2	33
56-43.3386-106.1192-2-15-						0-W09295	-5	-5	-5	17	-20	-15	12	-10	-15	2	22
56-43.2906-106.0014-2-15-						0-W09296	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	11
56-43.3014-106.0022-2-15-						0-W09297	-5	-5	-5	-10	-20	17	6	-10	-15	2	15
56-43.3194-106.0014-2-15-						0-W09298	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	13
56-43.3372-106.0033-2-15-						0-W09299	-5	-5	-5	-10	-20	-15	8	-10	-15	1	13
56-43.3442-106.0086-2-15-						0-W09300	-5	-5	-5	10	-20	-15	-5	-10	-15	2	14
56-43.3719-106.0056-2-15-						0-W09301	-5	-5	-5	13	-20	-15	5	-10	-15	1	18
56-43.3853-106.0308-2-15-						0-W09302	-5	-5	-5	14	-20	-15	8	-10	-15	1	11
56-43.3981-106.0475-2-15-						0-W09303	-5	-5	-5	-10	-20	-15	7	-10	-15	2	18
56-43.4067-106.0067-2-15-						0-W09304	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	11
56-43.4214-106.0111-2-15-						0-W09305	-5	-5	-5	20	-20	-15	9	-10	-15	2	25
56-43.4586-106.0072-2-15-						0-W09307	-5	-5	-5	12	-20	-15	5	-10	-15	1	9
56-43.4550-106.0361-2-15-						0-W09308	-5	-5	-5	14	-20	-15	5	-10	-15	2	19
56-43.4928-106.0308-2-15-						0-W09309	-5	-5	-5	10	-20	-15	9	-10	-15	-1	24
56-43.4947-106.0342-2-15-						0-W09310	-5	-5	-5	17	-20	-15	11	-10	-15	2	28
56-43.5331-106.0208-2-15-						0-W09312	-5	-5	-5	13	-20	-15	9	-10	-15	2	18
56-43.5336-106.0247-2-15-						0-W09313	-5	-5	-5	17	-20	-15	5	-10	-15	2	19
56-43.5772-106.0425-2-15-						0-W09316	-5	-5	-5	22	-20	15	9	-10	-15	-1	33
56-43.5950-106.0619-2-15-						0-W09318	-5	-5	-5	12	-20	-15	9	-10	-15	1	30
56-43.6089-106.0758-2-15-						0-W09321	-5	-5	-5	-10	-20	-15	7	-10	-15	-1	23
56-43.5661-106.0806-2-15-						0-W09323	-5	-5	-5	14	-20	-15	13	-10	-15	-1	16
56-43.5464-106.0572-2-15-						0-W09324	-5	-5	-5	12	-20	-15	8	-10	-15	1	37
56-43.4225-106.1061-2-11-						0-W09325	-5	-5	-5	19	-20	-15	10	-10	-15	2	32
56-43.4292-106.1167-2-11-						0-W09326	-5	-5	-5	13	-20	-15	-5	-10	-15	2	24
56-43.4047-106.1678-2-15-						0-W09327	-5	-5	-5	10	-20	-15	5	-10	-15	1	14
56-43.3600-106.0847-2-15-						0-W09329	-5	-5	-5	15	-20	-15	7	-10	16	2	20
56-43.3689-106.1183-2-15-						0-W09330	-5	-5	-5	18	-20	-15	11	-10	-15	2	41
56-43.3864-106.1181-2-15-						0-W09331	-5	-5	-5	13	-20	17	9	-10	-15	2	43
56-43.3586-106.1583-2-15-						0-W09332	-5	-5	-5	21	-20	-15	15	-10	-15	3	30
56-43.3703-106.1922-2-15-						0-W09333	-5	-5	-5	16	-20	15	6	-10	-15	1	15
56-43.3939-106.2369-2-15-						0-W09334	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	20
56-43.4400-106.2008-2-15-						0-W09335	-5	-5	-5	20	-20	-15	-5	-10	-15	2	21
56-43.4378-106.1508-2-15-						0-W09336	-5	-5	-5	15	-20	-15	9	-10	-15	2	15
56-43.4642-106.1469-2-15-						0-W09337	-5	-5	-5	13	-20	20	8	-10	-15	2	16
56-43.4492-106.1931-2-15-						0-W09338	-5	-5	-5	15	-20	-15	9	-10	-15	1	12
56-43.4542-106.2333-2-15-						0-W09339	-5	-5	-5	17	-20	-15	6	-10	-15	2	23
56-43.4792-106.1158-2-12-						0-W09341	-5	-5	-5	14	-20	-15	6	-10	-15	2	23
56-43.4861-106.2253-2-15-						0-W09342	-5	-5	-5	15	-20	-15	-5	-10	-15	2	16
56-43.1958-107.5153-2-15-						0-W09346	-5	-5	-5	29	-20	32	6	-10	-15	2	63
56-43.1583-107.6514-2-15-						0-W09347	-5	-5	-5	17	-20	17	14	-10	-15	2	20
56-43.1656-107.6572-2-15-						0-W09348	-5	-5	-5	22	-20	25	18	-10	-15	2	59
56-43.1583-107.6958-2-15-						0-W09349	-5	-5	-5	27	-20	-15	19	-10	-15	2	41
56-43.1758-107.7211-2-15-						0-W09352	-5	-5	-5	20	-20	-15	7	-10	-15	2	36
56-43.2617-107.7119-2-15-						0-W09354	-5	-5	-5	14	-20	20	-5	-10	-15	2	32
56-43.3333-107.7172-2-15-						0-W09356	-5	-5	-5	17	-20	-15	6	-10	-15	-1	18
56-43.3681-107.7192-2-15-						0-W09359	-5	-5	-5	18	-20	-15	8	-10	-15	2	47
56-43.3692-107.7161-2-15-						0-W09360	-5	-5	-5	27	-20	19	14	-10	-15	2	45
56-43.2222-107.9675-2-15-						0-W09361	-5	-5	-5	15	-20	24	23	-10	-15	2	41
56-43.1906-107.9308-2-15-						0-W09362	-5	-5	-5	25	-20	-15	11	-10	-15	2	26
56-43.1878-107.9272-2-15-						0-W09363	-5	-5	-5	23	-20	-15	11	-10	-15	2	53

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.3039-	106.0761-	2-	15-		0-W09294	47920	-0.04	475	31370	46	6180	5.4	49	2.6	3	0.7	10760	5.8	15240	24	0.3
56-	43.3386-	106.1192-	2-	15-		0-W09295	40280	-0.04	713	21120	70	-48	6.1	40	2.4	4	0.9	12030	12.9	12160	37	0.4
56-	43.2906-	106.0014-	2-	15-		0-W09296	27410	-0.04	491	1943	59	-28	4.5	32	1.7	4	0.8	6569	19.1	12520	31	0.5
56-	43.3014-	106.0022-	2-	15-		0-W09297	31690	-0.05	536	3296	51	51	3.4	23	1.6	3	0.7	7186	13.8	11340	25	0.4
56-	43.3194-	106.0014-	2-	15-		0-W09298	33690	-0.03	568	2671	51	27	3.7	31	1.8	4	0.6	6564	12.9	13360	30	0.4
56-	43.3372-	106.0033-	2-	15-		0-W09299	33820	-0.04	555	2051	55	44	4.3	31	1.8	4	0.7	8078	13.5	12060	30	0.3
56-	43.3442-	106.0086-	2-	15-		0-W09300	31410	-0.04	508	2194	50	42	4.6	27	1.7	3	0.9	6360	10.6	11460	25	0.4
56-	43.3719-	106.0056-	2-	15-		0-W09301	33250	-0.05	523	2336	43	44	3.1	20	-1.0	2	0.7	7318	10.1	12350	25	0.3
56-	43.3853-	106.0308-	2-	15-		0-W09302	26010	-0.03	515	-279	36	41	2.9	26	1.3	3	0.6	4178	11.6	11780	22	0.3
56-	43.3981-	106.0475-	2-	15-		0-W09303	39860	-0.04	506	1855	48	34	3.7	32	2.3	4	0.7	6663	11.4	14130	29	0.3
56-	43.4067-	106.0067-	2-	15-		0-W09304	25730	-0.04	481	-375	47	45	4.1	24	1.6	3	0.7	5340	11.0	10780	25	0.3
56-	43.4214-	106.0111-	2-	15-		0-W09305	52210	-0.06	505	3217	56	-34	5.3	34	3.1	3	0.8	9781	6.8	15850	31	0.3
56-	43.4586-	106.0072-	2-	15-		0-W09307	25950	-0.03	497	-317	47	37	3.1	27	1.2	3	0.9	4691	17.2	12800	24	0.3
56-	43.4550-	106.0361-	2-	15-		0-W09308	33590	-0.04	526	1582	61	54	4.2	33	1.9	4	1.0	6899	18.2	14440	34	0.4
56-	43.4928-	106.0308-	2-	15-		0-W09309	36650	-0.04	583	2795	61	-27	4.7	35	2.1	4	0.7	7863	16.5	14180	32	0.5
56-	43.4947-	106.0342-	2-	15-		0-W09310	64200	-0.06	465	33300	48	39	4.9	35	3.7	3	0.9	10140	5.6	13250	33	0.3
56-	43.5331-	106.0208-	2-	15-		0-W09312	32280	-0.03	499	2244	33	47	3.3	22	1.6	3	0.6	5039	5.7	13320	20	0.2
56-	43.5336-	106.0247-	2-	15-		0-W09313	39620	-0.04	525	2087	41	-22	4.7	26	2.5	3	0.6	6723	4.5	14020	25	0.3
56-	43.5772-	106.0425-	2-	15-		0-W09316	45380	-0.05	588	18400	58	232	6.4	39	2.5	4	0.8	10620	9.1	14620	34	0.3
56-	43.5950-	106.0619-	2-	15-		0-W09318	29990	-0.06	-227	9362	38	960	3.6	23	-1.2	1	0.4	5068	4.9	8433	27	0.3
56-	43.6089-	106.0758-	2-	15-		0-W09321	41250	-0.03	465	2097	49	-22	3.2	28	2.1	3	0.6	6082	13.2	13860	26	0.4
56-	43.5661-	106.0806-	2-	15-		0-W09323	30170	-0.03	473	-407	49	-27	3.5	29	1.9	4	0.9	6432	14.8	14150	30	0.3
56-	43.5464-	106.0572-	2-	15-		0-W09324	29290	-0.05	253	10390	54	1661	5.5	24	1.7	2	0.8	7058	9.2	11780	40	0.5
56-	43.4225-	106.1061-	2-	11-		0-W09325	42570	-0.06	567	19330	51	101	4.8	37	2.6	2	0.8	10660	6.8	15100	34	0.2
56-	43.4292-	106.1167-	2-	11-		0-W09326	41230	-0.04	580	20470	53	89	4.0	37	2.1	3	0.8	9003	6.5	14990	30	0.2
56-	43.4047-	106.1678-	2-	15-		0-W09327	29420	-0.04	611	17610	56	83	4.3	28	1.5	3	0.7	9311	10.3	12530	33	0.3
56-	43.3600-	106.0847-	2-	15-		0-W09329	33340	-0.04	601	17220	65	-37	5.0	34	1.9	4	0.8	10010	16.0	10480	36	0.4
56-	43.3689-	106.1183-	2-	15-		0-W09330	58710	-0.07	425	22630	56	-62	5.5	42	3.9	3	1.0	14900	6.9	14710	35	0.3
56-	43.3864-	106.1181-	2-	15-		0-W09331	54380	-0.04	537	23750	50	-53	5.4	41	2.9	4	0.8	12080	5.4	17710	27	0.3
56-	43.3586-	106.1583-	2-	15-		0-W09332	52580	-0.05	511	18020	52	-45	6.9	38	3.4	3	0.9	12960	4.8	15550	31	0.3
56-	43.3703-	106.1922-	2-	15-		0-W09333	34280	-0.04	585	16710	66	-40	4.8	33	2.1	3	0.9	9982	13.1	12420	36	0.4
56-	43.3939-	106.2369-	2-	15-		0-W09334	34270	-0.05	591	18750	57	-43	4.1	31	-1.1	3	1.1	9990	14.1	12320	38	0.5
56-	43.4400-	106.2008-	2-	15-		0-W09335	45340	-0.03	468	19240	44	76	3.8	33	2.1	3	0.6	9007	5.4	15720	25	0.2
56-	43.4378-	106.1508-	2-	15-		0-W09336	35500	-0.04	580	17420	70	-38	4.4	34	2.3	4	0.9	9674	13.5	13280	39	0.4
56-	43.4642-	106.1469-	2-	15-		0-W09337	33040	-0.04	527	16410	58	-44	4.5	25	1.6	3	0.8	8350	9.1	13130	32	0.4
56-	43.4492-	106.1931-	2-	15-		0-W09338	28480	-0.05	743	16140	83	-49	3.6	53	-1.1	3	1.0	11880	23.5	10530	51	0.4
56-	43.4542-	106.2333-	2-	15-		0-W09339	39110	-0.03	566	16350	48	-39	3.7	24	1.9	3	0.8	8180	8.6	15030	28	0.3
56-	43.4792-	106.1158-	2-	12-		0-W09341	40210	-0.04	474	10970	58	84	5.2	32	2.4	3	0.8	10550	9.3	14360	33	0.3
56-	43.4861-	106.2253-	2-	15-		0-W09342	33760	-0.04	470	11200	71	-49	5.0	34	1.5	3	0.9	9417	11.9	11240	42	0.4
56-	43.1958-	107.5153-	2-	15-		0-W09346	46670	-0.07	606	42910	57	522	7.2	52	3.3	2	0.8	15640	6.2	12170	34	0.3
56-	43.1583-	107.6514-	2-	15-		0-W09347	52090	-0.04	852	22020	68	-76	3.6	26	1.6	3	0.9	7277	5.5	12990	43	0.2
56-	43.1656-	107.6572-	2-	15-		0-W09348	60450	-0.05	805	33830	66	-76	8.4	50	3.8	4	1.0	15410	5.1	17800	38	0.3
56-	43.1583-	107.6958-	2-	15-		0-W09349	57800	-0.05	723	28020	71	-76	7.8	45	3.3	3	1.2	13530	7.5	16010	37	0.3
56-	43.1758-	107.7211-	2-	15-		0-W09352	56560	-0.08	548	32930	70	119	9.2	59	4.3	3	1.0	15110	6.0	17740	38	0.4
56-	43.2617-	107.7119-	2-	15-		0-W09354	50150	-0.06	711	32450	68	117	5.9	38	2.4	4	0.9	10430	8.2	15170	35	0.4
56-	43.3333-	107.7172-	2-	15-		0-W09356	26640	-0.04	350	23570	25	-46	3.1	22	-0.9	2	0.6	5300	6.0	10950	16	0.2
56-	43.3681-	107.7192-	2-	15-		0-W09359	60370	-0.05	807	29350	54	94	8.2	44	2.3	4	0.9	15220	5.1	13200	32	0.2
56-	43.3692-	107.7161-	2-	15-		0-W09360	62160	-0.05	807	27090	71	115	10.5	62	2.7	3	0.9	18910	6.9	13560	38	0.4
56-	43.2222-	107.9675-	2-	15-		0-W09361	62420	-0.05	835	25620	65	-84	7.3	52	2.4	2	1.0	13510	7.1	14670	34	0.3
56-	43.1906-	107.9308-	2-	15-		0-W09362	51250	-0.05	597	19100	51	-84	5.3	36	2.3	2	0.8	9885	5.9	16430	28	0.3
56-	43.1878-	107.9272-	2-	15-		0-W09363	54630	-0.04	702	20150	55	-71	5.3	47	2.1	3	0.8	10510	7.1	15920	31	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.3039-	106.0761-	2-	15-		0-	W09294	30600	210	11290	39	-1	5.1	3.5	-215		-1	7.2	2660	59	2.5	63	0.368
56-43.3386-	106.1192-	2-	15-		0-	W09295	11460	455	4157	23	-1	4.9	4.4	-207	-1	-1	9.6	2634	50	2.9	-57	0.357
56-43.2906-	106.0014-	2-	15-		0-	W09296	2866	149	1252	22	-1	3.2	3.8	-144		-1	8.1	2533	33	3.8	-39	0.431
56-43.3014-	106.0022-	2-	15-		0-	W09297	3866	160	1285	-16	-1	3.5	2.6	-158	-1	-1	6.9	2462	42	3.0	28	0.506
56-43.3194-	106.0014-	2-	15-		0-	W09298	4353	138	1114	22	-1	3.2	3.0	-121			7.2	2865	41	2.6	39	0.450
56-43.3372-	106.0033-	2-	15-		0-	W09299	4297	168	1405	33	-1	3.9	3.3	-135	-1	-1	8.6	2551	42	2.5	80	0.370
56-43.3442-	106.0086-	2-	15-		0-	W09300	3322	132	1245	32	-1	3.2	3.2	-139		-1	7.5	2352	36	2.6	-22	0.351
56-43.3719-	106.0056-	2-	15-		0-	W09301	4732	155	1172	-17	-1	3.5	2.1	-157	-1	-1	6.2	2587	40	2.4	51	0.476
56-43.3853-	106.0308-	2-	15-		0-	W09302	2893	95	774	24	-1	2.5	2.3	-107	1		5.7	2456	31	2.2		0.479
56-43.3981-	106.0475-	2-	15-		0-	W09303	4337	97	1186	30	-1	4.3	3.2	-113		-1	8.2	3250	43	2.6	59	0.389
56-43.4067-	106.0067-	2-	15-		0-	W09304	2971	103	773	27	-1	2.7	3.2	-120			6.8	2220	29	2.5	47	0.372
56-43.4214-	106.0111-	2-	15-		0-	W09305	8092	189	1379	-19	-2	5.7	2.7	-181	-1	-1	7.8	2302	60	1.8	-33	0.413
56-43.4586-	106.0072-	2-	15-		0-	W09307	2650	157	940	23	-1	2.5	2.8	-123	1		7.6	2990	34	2.9	22	0.441
56-43.4550-	106.0361-	2-	15-		0-	W09308	4265	173	1165	37	-1	3.8	3.5	-131		-1	9.0	3015	40	3.7	65	0.390
56-43.4928-	106.0308-	2-	15-		0-	W09309	3532	158	1142	38	-1	4.0	3.7	-147		-1	8.2	3046	45	2.9	32	0.430
56-43.4947-	106.0342-	2-	15-		0-	W09310	8384	129	879	52	-2	6.7	2.6	-172	-1	-1	7.4	3286	72	3.0	-35	0.589
56-43.5331-	106.0208-	2-	15-		0-	W09312	3815	106	1048	26	-1	2.8	2.3	-110			5.9	2394	38	1.8	37	0.400
56-43.5336-	106.0247-	2-	15-		0-	W09313	5222	102	871	32	-1	4.2	2.8	-110			6.5	2406	47	1.7	23	0.446
56-43.5772-	106.0425-	2-	15-		0-	W09316	11990	311	3025	33	-1	5.2	5.4	-212	-1	-1	10.2	3222	56	3.3	-52	0.452
56-43.5950-	106.0619-	2-	15-		0-	W09318	-8617	166	71370	-21	-2	2.9	5.5	-491	-1	-1	4.9	-1178	40	-1.5	43	7.010
56-43.6089-	106.0758-	2-	15-		0-	W09321	4656	115	1141	31	-1	3.8	3.0	-114			7.6	2963	53	3.1	58	0.504
56-43.5661-	106.0806-	2-	15-		0-	W09323	3730	132	1984	-12	-1	3.3	3.4	-118			8.2	2545	41	2.9	-19	0.423
56-43.5464-	106.0572-	2-	15-		0-	W09324	-5730	184	44930	34	-2	3.4	6.4	-358	-1	-1	7.3	2256	26	3.3	-23	4.737
56-43.4225-	106.1061-	2-	11-		0-	W09325	15880	312	3789	26	-2	4.6	3.0	-232	-1	-1	7.6	2252	48	-1.4	-27	0.416
56-43.4292-	106.1167-	2-	11-		0-	W09326	17140	289	2961	29	1	4.0	3.2	-181		-1	8.0	2442	47	2.2	-18	0.413
56-43.4047-	106.1678-	2-	15-		0-	W09327	11450	285	1940	37	-1	3.4	3.7	-159		-1	8.0	2154	34	3.4	51	0.349
56-43.3600-	106.0847-	2-	15-		0-	W09329	12780	280	2102	30	1	3.9	4.7	-180	-1	1	9.6	2338	44	3.3	-24	0.365
56-43.3689-	106.1183-	2-	15-		0-	W09330	22790	227	6728	46	-2	6.7	3.4	-232	-1	-1	8.5	2451	67	2.8	-62	0.352
56-43.3864-	106.1181-	2-	15-		0-	W09331	24420	240	6902	34	-1	5.5	3.4	-187			7.5	2986	64	2.7	-13	0.372
56-43.3586-	106.1583-	2-	15-		0-	W09332	16230	283	4205	58	-2	6.3	4.6	324	-1	-1	9.5	2929	58	3.4	70	0.339
56-43.3703-	106.1922-	2-	15-		0-	W09333	12120	282	2673	29	-1	4.0	4.6	-189	-1	-1	8.9	3061	42	3.2	-10	0.356
56-43.3939-	106.2369-	2-	15-		0-	W09334	13200	340	2163	-16	-1	3.8	3.9	-210	-1	-1	10.9	2822	38	3.2	-35	0.327
56-43.4400-	106.2008-	2-	15-		0-	W09335	16920	242	6298	30	-1	4.1	3.1	-174		-1	6.2	2541	54	2.1	-15	0.385
56-43.4378-	106.1508-	2-	15-		0-	W09336	13750	284	3331	32	2	4.0	4.2	-163		-1	9.5	2532	40	3.3	34	0.339
56-43.4642-	106.1469-	2-	15-		0-	W09337	12770	278	3551	34	-1	3.4	4.8	-189	-1	-1	8.2	2255	35	2.6	-33	0.323
56-43.4492-	106.1931-	2-	15-		0-	W09338	10370	384	3622	-18	-1	3.7	5.3	-224	-1	-1	11.3	4182	45	4.3	-26	0.373
56-43.4542-	106.2333-	2-	15-		0-	W09339	14750	276	3339	35	1	3.7	3.4	-165			7.2	2751	42	2.4		0.414
56-43.4792-	106.1158-	2-	12-		0-	W09341	10310	248	3138	40	1	4.6	4.5	-158	-1	-1	7.5	2477	45	2.1	59	0.411
56-43.4861-	106.2253-	2-	15-		0-	W09342	10900	265	5048	31	-1	3.7	5.1	-194	1	-1	9.1	2289	38	3.1	38	0.319
56-43.1958-	107.5153-	2-	15-		0-	W09346	25850	529	31840	42	-2	6.6	3.2	-407	-1	-1	9.4	1974	50	-1.5	-38	0.453
56-43.1583-	107.6514-	2-	15-		0-	W09347	7122	350	16070	21	-1	3.4	3.8	401	-1		9.2	2087	26	2.6	39	0.274
56-43.1656-	107.6572-	2-	15-		0-	W09348	19400	475	11590	53	-2	6.2	4.1	-264	-1	-1	9.9	2578	48	2.5	60	0.314
56-43.1583-	107.6958-	2-	15-		0-	W09349	15280	372	10550	46	-2	5.9	4.4	-264	-1	-1	12.2	2646	47	2.7	-38	0.269
56-43.1758-	107.7211-	2-	15-		0-	W09352	18340	441	8258	47	-2	6.8	4.5	-291	-1	-1	11.9	2368	52	3.5	79	0.276
56-43.2617-	107.7119-	2-	15-		0-	W09354	11360	413	10730	35	-2	5.0	4.1	-230	-1	-1	9.9	2416	40	3.2	55	0.321
56-43.3333-	107.7172-	2-	15-		0-	W09356	13650	185	3590	24	-1	2.8	1.6	-178	-1	-1	3.8	1633	20	2.0	-22	0.576
56-43.3681-	107.7192-	2-	15-		0-	W09359	18920	434	8593	30	-2	6.7	3.5	351	-1	-1	8.0	2816	85	1.5	-38	0.491
56-43.3692-	107.7161-	2-	15-		0-	W09360	17950	415	9063	42	-2	8.6	4.6	488	-1	-1	8.9	3581	91	3.4	78	0.463
56-43.2222-	107.9675-	2-	15-		0-	W09361	19940	393	13870	34	-2	5.5	4.3	-274	-1	-1	8.8	1960	34	2.5	38	0.381
56-43.1906-	107.9308-	2-	15-		0-	W09362	12680	342	13700	33	-2	4.5	3.1	-265	-1	-1	7.1	2676	37	1.9	-28	0.382
56-43.1978-	107.9272-	2-	15-		0-	W09363	17130	402	12930	28	-1	4.7	3.9	396	-1	-1	8.9	3533	40	2.6	55	0.338

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	SEQUENCE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU,ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.1850-107.9194-2-15-						0-W09364-09/23/77-15-		14-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.72
56-43.1853-107.8989-2-15-						0-W09365-09/23/77-16-		13-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.49
56-43.1703-107.8847-2-15-						0-W09366-09/23/77-16-		13-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.81
56-43.1533-107.8856-2-15-						0-W09367-09/23/77-16-		13-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40
56-43.2219-107.9219-2-15-						0-W09368-09/23/77-16-		13-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.03
56-43.2239-107.9069-2-15-						0-W09369-09/23/77-16-		13-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.77
56-43.2122-107.8464-2-15-						0-W09370-09/24/77- 9-		12-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.03
56-43.2092-107.8394-2-15-						0-W09371-09/24/77- 9-		12-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.47
56-43.1961-107.8389-2-15-						0-W09372-09/24/77- 9-		12-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.59
56-43.2067-107.8092-2-15-						0-W09373-09/24/77-10-		14-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.73
56-43.1642-107.8008-2-15-						0-W09374-09/24/77-10-		14-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.30
56-43.1908-107.7667-2-15-						0-W09375-09/24/77-11-		14-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
56-43.1606-107.7569-2-15-						0-W09376-09/24/77-11-		14-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.44
56-43.2833-107.6822-2-15-						0-W09377-09/24/77-11-		14-		-	-	-	-	-	13-1-7-5-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.98
56-43.2850-107.6556-2-15-						0-W09378-09/24/77-11-		14-		-	-	-	-	-	11-1-7-5-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.36
56-43.2956-107.6039-2-15-						0-W09381-09/24/77-12-		14-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-43.3094-107.5550-2-15-						0-W09382-09/24/77-12-		14-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66
56-43.3175-107.5278-2-15-						0-W09383-09/24/77-12-		14-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.01
56-43.2778-107.5767-2-15-						0-W09384-09/24/77-13-		15-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
56-43.2617-107.5736-2-15-						0-W09385-09/24/77-13-		15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-43.2292-107.5583-2-15-						0-W09386-09/24/77-13-		15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.97
56-43.2344-107.5281-2-15-						0-W09387-09/24/77-14-		15-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.04
56-43.2192-107.5367-2-15-						0-W09388-09/24/77-14-		15-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.16
56-43.2411-107.6539-2-15-						0-W09389-09/24/77-14-		15-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.53
56-43.2144-107.6667-2-15-						0-W09390-09/24/77-14-		15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.09
56-43.2239-107.6417-2-15-						0-W09391-09/24/77-15-		15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.09
56-43.2222-107.6431-2-15-						0-W09392-09/24/77-15-		15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.71
56-43.2008-107.6578-2-15-						0-W09393-09/24/77-15-		15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.87
56-43.2044-107.6058-2-15-						0-W09394-09/24/77-15-		15-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.26
56-43.1833-107.5792-2-15-						0-W09395-09/24/77-16-		15-		-	-	-	-	-	6-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.89
56-43.1894-107.5494-2-15-						0-W09396-09/24/77-16-		15-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.72
56-43.2061-107.5500-2-15-						0-W09397-09/24/77-16-		15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.26
56-43.2861-107.5194-2-15-						0-W09398-09/24/77-16-		15-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.87
56-43.2950-107.4886-2-15-						0-W09399-09/24/77-17-		13-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
56-43.2744-107.4778-2-15-						0-W09400-09/24/77-17-		13-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.78
56-43.2654-107.4558-2-15-						0-W09401-09/24/77-17-		13-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.71
56-43.2569-107.4039-2-15-						0-W09402-09/24/77-17-		13-		-	-	-	-	-	9-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.87
56-43.2681-107.3697-2-15-						0-W09403-09/24/77-18-		12-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.61
56-43.2506-107.3467-2-15-						0-W09404-09/24/77-18-		12-		-	-	-	-	-	13-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.41
56-43.2639-107.3253-2-15-						0-W09405-09/24/77-18-		12-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.36
56-43.4392-107.2692-2-11-						0-W09406-09/26/77-13-		13-	8.0-	-	-	-	5.5-	90-	9-1-7-5-8-3-3-1-	-	-	-	-	-	-	-1-	-	-	-	-	2.89
56-43.4306-107.2728-2-11-						0-W09407-09/26/77-13-		13-	8.0-	-	-	-	5.5-	100-	11-1-7-5-8-3-3-1-	-4-3-3-1-	-1-	-	-	-	-	2.70
56-43.4361-107.3222-2-11-						0-W09408-09/26/77-13-		14-	8.0-	-	-	-	6.0-	80-	11-1-7-5-8-3-3-1-	-4-3-3-1-	-1-	-	-	-	-	2.73
56-43.3828-107.3019-2-11-						0-W09411-09/26/77-15-		14-	8.0-	-	-	-	6.0-	100-	11-1-7-5-8-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	2.30
56-43.3964-107.2850-2-11-						0-W09412-09/26/77-15-		14-	7.0-	-	-	-	6.0-	110-	9-1-7-5-8-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	3.11
56-43.3972-107.3078-2-11-						0-W09413-09/26/77-15-		14-	8.0-	-	-	-	6.0-	90-	11-1-7-5-8-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	1.87
56-43.4144-107.3203-2-12-						0-W09414-09/26/77-15-		14-	9.0-	-	-	-	6.1-	120-	13-1-7-5-8-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	3.35
56-43.3817-107.3642-2-11-						0-W09415-09/26/77-16-		14-	7.0-	-	-	-	6.1-	90-	11-1-7-5-8-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	3.60
56-43.4819-107.4397-2-12-						0-W09417-09/26/77-17-		13-	10.0-	-	-	-	5.7-	100-	9-1-7-5-8-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	3.14
56-43.4797-107.4400-2-11-						0-W09418-09/26/77-17-		13-		-	-	-	5.9-	150-	11-1-7-5-8-	- - -	-3-3-3-1-	-1-	-	-	-	2.31
56-43.4681-107.4597-2-11-						0-W09419-09/26/77-17-		13-	10.0-	-	-	-	5.8-	120-	11-1-7-5-8-3-3-1-	-3-3-3-1-	-1-	-	-	-	-	2.06

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						IAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.1850-107.9194-2-15-						0-W09364	-5	-5	-5	15	-20	-15	13	-10	-15	2	33
56-43.1853-107.8889-2-15-						0-W09365	-5	-5	-5	-10	-20	-15	14	-10	-15	2	29
56-43.1703-107.8847-2-15-						0-W09366	-5	-5	-5	18	-20	18	5	-10	-15	2	55
56-43.1533-107.8856-2-15-						0-W09367	-5	-5	-5	14	-20	-15	8	-10	-15	2	33
56-43.2219-107.9219-2-15-						0-W09368	-5	7	-5	18	-20	27	15	-10	-15	3	48
56-43.2239-107.9069-2-15-						0-W09369	-5	-5	-5	25	-20	29	15	-10	-15	2	49
56-43.2122-107.8464-2-15-						0-W09370	-5	-5	-5	11	-20	-15	12	-10	-15	2	21
56-43.2092-107.8394-2-15-						0-W09371	-5	-5	-5	10	-20	-15	13	-10	-15	2	28
56-43.1961-107.8389-2-15-						0-W09372	-5	-5	-5	21	-20	-15	14	-10	-15	2	42
56-43.2067-107.8092-2-15-						0-W09373	-5	-5	-5	22	-20	24	17	-10	-15	3	45
56-43.1642-107.8008-2-15-						0-W09374	-5	-5	-5	27	-20	33	10	-10	-15	3	44
56-43.1908-107.7667-2-15-						0-W09375	-5	8	-5	26	-20	29	17	-10	-15	2	40
56-43.1606-107.7569-2-15-						0-W09376	-5	-5	-5	27	-20	28	20	-10	-15	2	36
56-43.2833-107.6822-2-15-						0-W09377	-5	-5	-5	40	-20	40	12	-10	-15	1	53
56-43.2850-107.6556-2-15-						0-W09378	-5	-5	-5	36	-20	-15	9	-10	-15	3	50
56-43.2956-107.6039-2-15-						0-W09381	-5	-5	-5	15	-20	17	6	-10	-15	1	20
56-43.3094-107.5550-2-15-						0-W09382	-5	5	-5	21	-20	25	12	-10	-15	1	21
56-43.3175-107.5278-2-15-						0-W09383	-5	7	-5	34	-20	29	9	-10	-15	-1	22
56-43.2778-107.5767-2-15-						0-W09384	-5	-5	-5	25	-20	19	8	-10	-15	2	50
56-43.2617-107.5736-2-15-						0-W09385	-5	-5	-5	25	-20	-15	9	-10	-15	2	33
56-43.2292-107.5583-2-15-						0-W09386	-5	9	-5	14	-20	-15	-5	-10	-15	2	24
56-43.2144-107.5281-2-15-						0-W09387	-5	-5	-5	25	-20	-15	13	-10	15	2	44
56-43.2192-107.5367-2-15-						0-W09388	-5	-5	-5	26	-20	27	7	-10	-15	2	37
56-43.2411-107.6539-2-15-						0-W09389	-5	-5	-5	16	-20	26	9	-10	-15	2	38
56-43.2144-107.6667-2-15-						0-W09390	-5	-5	-5	-10	-20	-15	11	-10	-15	2	44
56-43.2239-107.6417-2-15-						0-W09391	-5	-5	-5	23	-20	-15	17	-10	-15	2	40
56-43.2222-107.6431-2-15-						0-W09392	-5	-5	-5	18	-20	21	7	-10	23	2	35
56-43.2008-107.6578-2-15-						0-W09393	-5	-5	-5	21	-20	22	13	-10	-15	2	50
56-43.2044-107.6058-2-15-						0-W09394	-5	-5	-5	22	-20	-15	6	-10	-15	2	27
56-43.1833-107.5792-2-15-						0-W09395	-5	-5	-5	28	-20	34	17	-10	-15	1	35
56-43.1894-107.5494-2-15-						0-W09396	-5	-5	-5	25	-20	21	13	-10	-15	2	47
56-43.2061-107.5500-2-15-						0-W09397	-5	-5	-5	18	-20	-15	8	-10	-15	2	40
56-43.2861-107.5194-2-15-						0-W09398	-5	-5	-5	25	-20	33	12	11	-15	2	49
56-43.2950-107.4886-2-15-						0-W09399	-5	-5	-5	26	-20	16	11	-10	-15	2	37
56-43.2744-107.4778-2-15-						0-W09400	-5	-5	-5	34	-20	48	18	-10	-15	1	39
56-43.2656-107.4558-2-15-						0-W09401	-5	-5	-5	30	-20	20	7	-10	-15	1	23
56-43.2569-107.4039-2-15-						0-W09402	-5	5	-5	24	-20	21	11	-10	-15	2	20
56-43.2681-107.3697-2-15-						0-W09403	-5	-5	-5	28	-20	-15	5	-10	-15	2	36
56-43.2506-107.3467-2-15-						0-W09404	-5	-5	-5	26	-20	18	13	-10	-15	1	25
56-43.2639-107.3253-2-15-						0-W09405	-5	-5	-5	19	-20	19	10	-10	-15	2	23
56-43.4392-107.2692-2-11-						0-W09406	-5	-5	-5	42	-20	48	6	-10	-15	2	20
56-43.4306-107.2728-2-11-						0-W09407	-5	-5	-5	57	-20	49	23	-10	-15	2	24
56-43.4361-107.3222-2-11-						0-W09408	-5	-5	-5	24	-20	20	12	10	-15	2	32
56-43.3828-107.3019-2-11-						0-W09411	-5	-5	-5	29	-20	-15	40	48	-15	1	29
56-43.3964-107.2850-2-11-						0-W09412	-5	-5	-5	14	-20	-15	9	-10	-15	2	33
56-43.3972-107.3078-2-11-						0-W09413	-5	-5	-5	32	-20	16	17	-10	-15	-1	13
56-43.4144-107.3203-2-12-						0-W09414	-5	-5	-5	24	-20	-15	8	-10	-15	1	22
56-43.3817-107.3642-2-11-						0-W09415	-5	-5	-5	23	-20	-15	13	-10	-15	2	27
56-43.4819-107.4397-2-12-						0-W09417	-5	-5	-5	38	-20	50	8	-10	-15	1	26
56-43.4797-107.4400-2-11-						0-W09418	-5	-5	-5	46	-20	48	17	-10	-15	2	36
56-43.4681-107.4597-2-11-						0-W09419	-5	-5	-5	15	-20	-15	12	-10	-15	-1	4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Concentrations reported in weight parts per million (ppm)												
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.1850-107.9194-2-15-					0-	W09364	54200	-0.04	674	22450	55	-68	5.8	38	2.2	3	0.9	11390	7.4	14730	32	0.3
56-43.1853-107.8889-2-15-					0-	W09365	48260	-0.05	752	26750	93	-76	5.4	39	1.4	3	1.1	10130	12.8	15190	47	0.4
56-43.1703-107.8847-2-15-					0-	W09366	58070	-0.06	422	23730	45	378	6.5	48	2.2	2	0.9	11960	4.9	12400	31	0.3
56-43.1533-107.8856-2-15-					0-	W09367	49990	-0.04	706	25790	71	-70	4.0	39	1.5	4	0.8	8665	10.0	15600	42	0.3
56-43.2219-107.9219-2-15-					0-	W09368	61660	-0.05	579	23430	60	-70	7.4	52	2.8	3	1.0	14030	6.9	17650	34	0.2
56-43.2239-107.9069-2-15-					0-	W09369	56610	-0.05	627	21970	70	-78	7.6	67	2.9	3	0.8	13850	7.3	17700	33	0.4
56-43.2122-107.8464-2-15-					0-	W09370	47200	-0.05	482	15180	72	-82	4.1	48	-1.1	2	1.1	10300	10.9	13540	44	0.3
56-43.2092-107.8394-2-15-					0-	W09371	51260	-0.03	626	19310	54	-68	4.1	36	1.3	3	0.7	8657	6.7	16420	32	0.3
56-43.1961-107.8389-2-15-					0-	W09372	62360	-0.05	707	26470	73	-77	7.7	49	2.8	4	0.9	15390	8.0	13640	39	0.3
56-43.2067-107.8092-2-15-					0-	W09373	62720	-0.05	884	21220	88	-84	7.2	51	2.1	3	1.0	12830	9.2	14720	52	0.4
56-43.1642-107.8008-2-15-					0-	W09374	65320	-0.06	963	17430	64	-85	6.4	46	2.3	3	0.8	13870	6.7	15980	35	0.2
56-43.1908-107.7667-2-15-					0-	W09375	67590	-0.04	765	18330	66	-74	6.5	48	2.4	3	0.8	14540	6.1	16280	35	0.3
56-43.1606-107.7569-2-15-					0-	W09376	66460	-0.05	722	15210	68	-68	7.5	46	2.8	3	0.9	14500	7.1	14430	40	0.3
56-43.2833-107.6822-2-15-					0-	W09377	72690	-0.07	339	30980	87	-62	11.8	82	4.0	3	1.1	23680	4.2	16390	48	0.5
56-43.2850-107.6556-2-15-					0-	W09378	56840	-0.07	745	40200	57	-75	8.4	57	2.6	2	0.8	16460	5.0	13610	33	0.3
56-43.2956-107.6039-2-15-					0-	W09381	48040	-0.04	738	28080	44	-70	4.8	40	1.0	3	0.8	9390	12.3	13560	26	0.4
56-43.3094-107.5550-2-15-					0-	W09382	51910	-0.04	577	34230	54	-69	8.1	54	1.2	4	0.8	13540	12.7	12570	34	0.4
56-43.3175-107.5278-2-15-					0-	W09383	50710	-0.06	787	30900	68	-78	9.3	94	-1.2	3	0.9	17840	16.0	12000	32	0.5
56-43.2778-107.5767-2-15-					0-	W09384	58230	-0.06	540	24160	56	-74	7.2	47	2.4	2	1.0	13500	6.7	16740	33	0.3
56-43.2617-107.5736-2-15-					0-	W09385	55360	-0.04	716	29320	48	-71	5.5	35	1.7	3	0.7	9732	5.1	17750	27	0.3
56-43.2292-107.5583-2-15-					0-	W09386	44070	-0.05	2106	24560	158	-69	5.8	56	1.8	7	2.0	13210	29.3	14510	104	0.7
56-43.2344-107.5281-2-15-					0-	W09387	48940	-0.05	1412	44040	92	-80	6.8	51	3.0	3	1.0	12400	13.0	11970	51	0.5
56-43.2192-107.5367-2-15-					0-	W09388	46050	-0.06	1149	27730	81	-76	4.9	36	2.4	3	0.9	10930	14.9	13910	50	0.5
56-43.2411-107.6539-2-15-					0-	W09389	58830	-0.04	608	11090	64	-70	4.7	42	1.9	4	0.8	10050	10.6	16190	37	0.3
56-43.2144-107.6667-2-15-					0-	W09390	57390	-0.03	603	15370	44	124	4.1	27	1.3	2	0.8	6465	6.4	15920	26	0.2
56-43.2239-107.6417-2-15-					0-	W09391	56850	-0.05	457	15210	83	-79	6.2	51	1.9	2	0.9	10380	10.3	16270	43	0.4
56-43.2222-107.6431-2-15-					0-	W09392	52910	-0.05	448	10060	61	-79	4.5	37	1.6	4	0.9	8923	13.7	14250	37	0.4
56-43.2008-107.6578-2-15-					0-	W09393	59020	-0.04	906	8992	49	338	5.9	49	2.4	3	0.9	11330	5.6	18930	30	0.3
56-43.2044-107.6058-2-15-					0-	W09394	50090	-0.04	640	40460	69	-71	6.5	46	2.1	3	1.0	11690	11.0	13340	43	0.3
56-43.1833-107.5792-2-15-					0-	W09395	56990	-0.05	343	28490	66	-78	7.9	50	2.7	2	1.0	14180	7.2	16520	32	0.4
56-43.1894-107.5494-2-15-					0-	W09396	60760	-0.06	432	31120	45	-85	6.1	42	1.9	1	0.9	12970	6.1	15500	29	0.3
56-43.2061-107.5500-2-15-					0-	W09397	54940	-0.04	675	30080	42	-70	4.8	39	2.0	2	0.6	9810	3.5	15340	21	0.2
56-43.2861-107.5194-2-15-					0-	W09398	60650	-0.05	623	28910	65	125	8.7	57	2.5	3	0.9	16450	7.9	20790	37	0.3
56-43.2950-107.4886-2-15-					0-	W09399	56890	-0.05	195	36470	59	-78	8.7	61	1.6	2	0.8	14930	11.3	15970	31	0.3
56-43.2744-107.4778-2-15-					0-	W09400	59550	-0.07	364	44770	44	-95	9.5	42	-1.4	-1	0.8	15640	4.2	14510	20	0.2
56-43.2656-107.4558-2-15-					0-	W09401	57340	-0.04	503	19700	46	-74	5.4	45	1.2	3	0.8	10980	9.8	19220	27	0.4
56-43.2569-107.4039-2-15-					0-	W09402	56290	-0.04	627	16730	57	-72	7.6	54	1.7	3	0.9	13720	12.3	17750	33	0.4
56-43.2681-107.3697-2-15-					0-	W09403	49190	-0.05	495	20650	72	-64	6.6	53	1.2	3	0.9	12430	17.7	18930	38	0.5
56-43.2506-107.3467-2-15-					0-	W09404	57060	-0.06	389	19280	55	-77	7.3	54	1.8	4	0.9	13730	14.4	18950	34	0.4
56-43.2639-107.3253-2-15-					0-	W09405	40360	-0.04	319	36290	35	-52	4.9	31	1.6	3	0.7	7771	8.2	17410	20	0.3
56-43.4392-107.2692-2-11-					0-	W09406	52280	-0.09	389	28210	38	187	14.6	85	-1.8	4	1.2	32280	7.5	8155	31	0.5
56-43.4306-107.2728-2-11-					0-	W09407	46470	-0.09	-170	17410	60	135	14.4	85	-1.8	2	1.2	26270	7.9	9303	31	0.4
56-43.4361-107.3222-2-11-					0-	W09408	53180	-0.07	414	13760	41	-105	6.8	24	-1.5	2	0.8	10330	8.2	9898	24	0.3
56-43.3828-107.3019-2-11-					0-	W09411	46160	-0.06	417	13200	36	357	5.7	36	1.1	3	0.7	9585	6.9	11080	26	0.3
56-43.3964-107.2650-2-11-					0-	W09412	51430	-0.05	619	11990	62	-70	7.6	43	2.1	3	1.0	10630	11.5	13680	35	0.3
56-43.3972-107.3078-2-11-					0-	W09413	36840	-0.08	-190	13680	36	320	9.6	33	-1.6	-1	0.7	9990	4.1	14750	22	0.2
56-43.4144-107.3203-2-12-					0-	W09414	49480	-0.07	517	10430	52	-82	5.9	44	-1.4	3	1.0	10280	11.1	14790	33	0.3
56-43.3817-107.3642-2-11-					0-	W09415	60520	-0.05	709	11270	60	104	6.6	53	2.2	4	0.8	14550	7.7	19240	39	0.4
56-43.4819-107.4397-2-12-					0-	W09417	53920	-0.06	602	10980	64	-68	9.3	108	2.5	4	1.0	15070	10.3	13700	39	0.4
56-43.4797-107.4400-2-11-					0-	W09418	60680	-0.07	606	13030	77	-89	13.8	86	2.3	2	0.9	28140	9.8	10690	39	0.4
56-43.4681-107.4597-2-11-					0-	W09419	11990	-0.12	232	13790	32	-70	6.9	-19	-2.1	-1	-0.5	7367	-1.8	5917	-11	-0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	43.1850-	107.9194-	2-	15-	0-	W09364	13640	351	13040	-14	-1	5.2	3.8	-218	-1	-1	8.3	2203	37	3.0	43	0.328
56-	43.1853-	107.8889-	2-	15-	0-	W09365	12090	406	12320	35	-1	4.7	5.8	-256	-1	-1	13.8	2204	32	3.8	52	0.253
56-	43.1703-	107.8847-	2-	15-	0-	W09366	20360	385	17610	38	-2	5.5	2.9	-304	-1	-1	7.6	1942	42	2.9	-32	0.370
56-	43.1533-	107.8856-	2-	15-	0-	W09367	12480	415	12750	35	-1	4.3	4.5	-234	-1	-1	12.3	2399	32	3.1		0.276
56-	43.2219-	107.9219-	2-	15-	0-	W09368	19320	381	12540	40	-1	6.2	4.2	466	-1	-1	9.1	2320	60	2.6	67	0.333
56-	43.2239-	107.9069-	2-	15-	0-	W09369	20750	410	11770	38	-2	6.2	4.2	-266	-1	-1	9.3	2227	43	2.5	52	0.298
56-	43.2122-	107.8464-	2-	15-	0-	W09370	10800	355	13890	30	-2	4.7	3.2	-260	-1	-1	13.2	2048	40	2.5	-26	0.230
56-	43.2092-	107.8394-	2-	15-	0-	W09371	10870	350	14230	22	-1	4.2	3.6	-213			8.7	2220	37	2.5	-9	0.284
56-	43.1961-	107.8389-	2-	15-	0-	W09372	20900	488	14170	43	-1	6.2	5.2	463	-1	-1	11.7	2721	50	3.2	95	0.307
56-	43.2067-	107.8092-	2-	15-	0-	W09373	15580	403	15050	40	-1	5.6	5.3	445	-1	-1	11.8	2859	40	3.4	-50	0.316
56-	43.1642-	107.8008-	2-	15-	0-	W09374	15400	312	12640	-21	-2	5.8	3.4	-273	-1	-1	10.5	2398	49	3.0	-47	0.410
56-	43.1908-	107.7667-	2-	15-	0-	W09375	17580	345	14250	27	-1	5.8	3.8	442		-1	9.3	2944	57	2.7	60	0.387
56-	43.1606-	107.7569-	2-	15-	0-	W09376	16100	282	13290	35	-1	6.0	4.8	329	-1	-1	11.4	2571	53	-1.0	-50	0.302
56-	43.2833-	107.6822-	2-	15-	0-	W09377	28190	464	3746	47	-2	10.8	5.7	-294	-1	-1	13.5	3286	84	3.2	-43	0.295
56-	43.2850-	107.6556-	2-	15-	0-	W09378	21330	329	6693	-25	-2	7.2	3.4	-276	-1	-1	9.0	2683	69	-1.7	78	0.373
56-	43.2956-	107.6039-	2-	15-	0-	W09381	11330	383	13130	25	-1	4.5	3.5	-226			11.6	3450	38	3.0	25	0.241
56-	43.3094-	107.5550-	2-	15-	0-	W09382	12460	430	12090	34	-1	6.4	3.6	-230	-1	1	12.9	3657	41	3.6	44	0.206
56-	43.3175-	107.5278-	2-	15-	0-	W09383	13480	490	10410	22	-2	7.9	4.5	-287	-1	-1	18.9	4828	55	4.5	-25	0.159
56-	43.2778-	107.5767-	2-	15-	0-	W09384	15330	359	9752	-21	-2	6.4	3.0	-260	-1	-1	8.1	2695	56	3.8	-32	0.390
56-	43.2617-	107.5736-	2-	15-	0-	W09385	11740	380	12330	36	-1	4.6	3.1	280	-1	-1	7.4	2303	40	2.3	31	0.405
56-	43.2292-	107.5583-	2-	15-	0-	W09386	13220	607	10520	42	-1	6.2	8.7	-252	1	1	30.0	4537	35	6.7	54	0.199
56-	43.2344-	107.5281-	2-	15-	0-	W09387	14000	606	10090	50	-2	5.5	5.9	-310	-1	-1	15.6	2240	30	4.4	46	0.259
56-	43.2192-	107.5367-	2-	15-	0-	W09388	9226	476	9560	-18	-2	5.3	5.0	-279	-1	-1	14.6	2854	39	3.1	58	0.285
56-	43.2411-	107.6539-	2-	15-	0-	W09389	10960	312	13440	32	-1	4.6	4.4	-228	-1	-1	11.5	2398	49	2.8	50	0.307
56-	43.2144-	107.6667-	2-	15-	0-	W09390	6515	200	18800	35	-1	3.1	2.8	360			6.7	1638	25	2.3	28	0.312
56-	43.2239-	107.6417-	2-	15-	0-	W09391	6873	374	14140	32	-1	5.0	5.3	-260	-1	-1	11.7	2037	37	3.0	47	0.264
56-	43.2222-	107.6431-	2-	15-	0-	W09392	9895	274	13520	-17	-2	4.6	3.6	-244	-1	-1	12.3	1974	46	2.8	-38	0.302
56-	43.2008-	107.6578-	2-	15-	0-	W09393	14160	395	14790	35	-1	5.0	3.5	-261	-1	-1	8.1	3031	48	2.7	38	0.354
56-	43.2044-	107.6058-	2-	15-	0-	W09394	17130	483	11640	27	-1	5.3	5.4	-243	-1	1	13.0	2265	43	4.1	67	0.251
56-	43.1833-	107.5792-	2-	15-	0-	W09395	16530	413	10860	41	-2	6.1	4.6	-274	-1	1	9.8	2535	44	4.9	71	0.295
56-	43.1894-	107.5494-	2-	15-	0-	W09396	18470	395	13390	35	-2	5.5	3.2	-281	-1	-1	9.2	2727	43	-1.3	-28	0.296
56-	43.2061-	107.5500-	2-	15-	0-	W09397	14600	380	12310	32	-1	4.4	2.6	-231		-1	6.1	2103	35	1.5	37	0.370
56-	43.2861-	107.5194-	2-	15-	0-	W09398	18150	395	10190	42	-2	7.2	3.9	-232	-1	-1	10.8	3031	52	2.3	66	0.266
56-	43.2950-	107.4886-	2-	15-	0-	W09399	16600	476	11650	31	-2	6.3	4.1	-273	-1	-1	12.2	2446	47	3.0	43	0.213
56-	43.2744-	107.4778-	2-	15-	0-	W09400	21110	513	13130	-23	-2	6.9	2.9	-326	-1	-1	8.7	2688	52	1.9	-34	0.205
56-	43.2656-	107.4558-	2-	15-	0-	W09401	11070	381	14680	27	-1	5.0	3.6	-232	-1	-1	9.2	3614	48	2.5	24	0.295
56-	43.2569-	107.4039-	2-	15-	0-	W09402	14020	414	14060	33	-1	6.2	3.9	-230	-1	-1	11.1	3403	46	3.5	38	0.259
56-	43.2681-	107.3697-	2-	15-	0-	W09403	14820	279	9255	41	-1	6.3	5.7	-218	-1	-1	16.2	2829	39	4.0	57	0.223
56-	43.2506-	107.3467-	2-	15-	0-	W09404	13260	337	11540	-20	-2	7.2	2.9	-250	-1	-1	14.7	3916	54	4.1	-28	0.232
56-	43.2639-	107.3253-	2-	15-	0-	W09405	14320	285	6234	33	-1	4.1	2.8	-189		-1	6.3	2655	38	2.5	28	0.375
56-	43.4392-	107.2692-	2-	11-	0-	W09406	22850	670	10690	-25	-3	17.0	4.4	-326	-1	-1	7.8	7373	155	3.7	86	0.371
56-	43.4306-	107.2728-	2-	11-	0-	W09407	18110	484	7789	-27	-3	11.7	4.5	-352	-1	-1	11.0	5221	111	5.1	137	0.245
56-	43.4361-	107.3222-	2-	11-	0-	W09408	9401	209	16780	-25	-2	5.6	2.9	-306	-1	-1	8.6	3208	39	-2.2	-43	0.317
56-	43.3928-	107.3019-	2-	11-	0-	W09411	10380	275	13100	29	-2	4.7	2.5	-288	-1	-1	8.0	2780	44	1.9	-54	0.288
56-	43.3964-	107.2850-	2-	11-	0-	W09412	9644	299	10270	-18	-2	5.9	3.9	-238	-1	-1	9.9	2864	53	3.8	-56	0.314
56-	43.3972-	107.3078-	2-	11-	0-	W09413	-4318	329	10690	-26	-2	4.4	3.3	-368	-1	-1	7.4	-914	33	-2.3	101	0.253
56-	43.4144-	107.3203-	2-	12-	0-	W09414	9250	312	10070	-22	-2	5.7	3.9	-283	-1	-1	9.5	3543	52	2.9	-72	0.353
56-	43.3817-	107.3642-	2-	11-	0-	W09415	17060	507	8727	54	-2	6.2	4.6	-282	-1	-1	10.8	3219	68	2.4	60	0.333
56-	43.4819-	107.4397-	2-	12-	0-	W09417	18000	321	9305	34	-2	7.2	4.4	-231	-1	-1	10.1	3327	70	3.0	52	0.311
56-	43.4797-	107.4400-	2-	11-	0-	W09418	15220	682	10450	-23	-2	12.4	3.9	-345	-1	-1	13.4	3761	109	4.0	-33	0.172
56-	43.4681-	107.4597-	2-	11-	0-	W09419	-2976	56	2072	-41	-3	1.6	-1.3	-273	-2	-1	-2.3	-653	20	-2.8	-60	

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples ①

DOE SAMPLE NUMBER (STATE-LATITUDE-LONGITUDE-DOE LAB-SAMPLE TYPE-REPLICATE)	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm) – ROCK TYPE – ROCK COLOR – SEDIMENT TYPE – SEDIMENT COLOR – WATER FLOW – WATER LEVEL – WATER COLOR – STREAM CHANNEL – VEGETATION TYPE – VEGETATION DENSITY – RELIEF – WEATHER – OWNERSHIP – CONTAMINANTS – WELL TYPE – WELL DIAMETER (INCHES) – WELL DEPTH (FEET) – WATER DEPTH (FEET)	U CONCENTRATION: SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.4344-107.4656-2-12	0-W09420	09/26/77	18	12	10.0	-	-	5.8	150	11-1-7-5-8-3-3-1- -3-3-3-1- -1- - - - -	2.47
56-43.4222-107.4483-2-11	0-W09421	09/26/77	18	12	10.0	-	-	5.9	160	11-1-7-5-8-3-3-1- -3-3-3-1- -1- - - - -	2.62
56-43.4286-107.4169-2-11	0-W09422	09/26/77	18	12	9.0	-	-	5.9	120	11-1-7-5-8-3-3-1- -3-3-3-1- -1- - - - -	2.51
56-43.4250-107.3769-2-12	0-W09423	09/26/77	18	12	10.0	-	-	5.9	180	11-1-7-5-8-3-3-1- -3-3-3-1- -1- - - - -	2.72
56-43.4139-107.4100-2-12	0-W09424	09/26/77	18	12	10.0	-	-	-	-	11-1-7-5-8-3-3-1- -3-3-3-1- -1- - - - -	2.82
56-43.4092-107.4117-2-12	0-W09425	09/26/77	18	12	10.0	-	-	-	-	9-1-7-5-8-3-3-1- -3-3-3-1- -1- - - - -	2.69
56-43.4328-107.5039-2-15	0-W09426	09/27/77	8	13	-	-	-	-	-	11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.58
56-43.4272-107.5328-2-15	0-W09427	09/26/77	8	13	-	-	-	-	-	11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.73
56-43.3961-107.5258-2-15	0-W09428	09/27/77	9	14	-	-	-	-	-	9-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.03
56-43.3806-107.5097-2-15	0-W09429	09/27/77	9	14	-	-	-	-	-	9-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.93
56-43.3800-107.5611-2-15	0-W09431	09/27/77	9	14	-	-	-	-	-	11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.54
56-43.4928-107.5489-2-15	0-W09432	09/27/77	10	14	-	-	-	-	-	11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.46
56-43.4628-107.5314-2-11	0-W09433	09/27/77	10	14	9.0	-	-	6.7	300	11-1-7-5-8-3-3-1- -3-3-3-1- -1- - - - -	3.04
56-43.4606-107.5825-2-11	0-W09434	09/27/77	10	14	10.0	-	-	6.8	350	9-1-7-5-8-3-3-1- -3-3-3-1- -1- - - - -	3.12
56-43.4450-107.5894-2-12	0-W09435	09/27/77	11	15	10.0	-	-	6.5	450	11-1-7-5-6-3-3-1- -3-3-3-1- -1- - - - -	2.74
56-43.4433-107.5872-2-11	0-W09436	09/27/77	11	15	10.0	-	-	6.7	440	11-1-7-5-6-3-3-1- -3-3-3-1- -1- - - - -	2.82
56-43.3939-107.6094-2-15	0-W09437	09/27/77	12	15	-	-	-	-	-	11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.33
56-43.3469-107.5839-2-15	0-W09440	09/27/77	13	15	-	-	-	-	-	11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.81
56-43.3292-107.5703-2-15	0-W09442	09/27/77	13	15	-	-	-	-	-	9-1-7-5-6- -1- -2-3-3-3-1- -7- - - - -	2.54
56-43.3631-107.5369-2-15	0-W09443	09/27/77	14	15	-	-	-	-	-	-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.14
56-43.3403-107.4311-2-15	0-W09446	09/27/77	15	15	-	-	-	-	-	9-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.92
56-43.3289-107.4281-2-15	0-W09447	09/27/77	15	15	-	-	-	-	-	11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.41
56-43.3233-107.4006-2-12	0-W09449	09/27/77	16	15	10.0	-	-	5.9	250	11-1-7-5-6-3-3-1- -3-3-3-1- -1- - - - -	3.15
56-43.3217-107.3986-2-15	0-W09450	09/27/77	16	15	-	-	-	-	-	11-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	3.05
56-43.3019-107.3900-2-15	0-W09451	09/27/77	17	15	-	-	-	-	-	9-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.58
56-43.4981-107.9725-2-12	0-W09453	09/28/77	7	11	8.0	-	-	6.1	200	18-1-7-5-8-3-3-1- -4-3-3-1- -1- - - - -	5.41
56-43.4986-107.9467-2-12	0-W09454	09/28/77	7	11	7.0	-	-	6.1	210	18-1-7-5-8-3-3-1- -4-3-3-1- -1- - - - -	4.71
56-43.4867-107.9261-2-12	0-W09455	09/28/77	7	11	8.0	-	-	6.1	200	16-1-7-5-8-3-3-1- -4-3-3-1- -1- - - - -	6.18
56-43.4767-107.8858-2-12	0-W09457	09/28/77	8	11	8.0	-	-	6.1	220	16-1-7-5-8-3-3-1- -4-3-3-1- -1- - - - -	4.38
56-43.4747-107.8842-2-12	0-W09458	09/28/77	8	11	8.0	-	-	6.3	240	15-1-7-5-8-3-3-1- -4-3-3-1- -1- - - - -	6.20
56-43.4806-107.8414-2-15	0-W09459	09/28/77	8	11	-	-	-	-	-	15-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.52
56-43.4622-107.8461-2-12	0-W09460	09/28/77	8	12	11.0	-	-	6.5	350	13-1-7-5-8-3-2-1- -3-3-3-1- -1- - - - -	3.63
56-43.4839-107.7989-2-11	0-W09461	09/28/77	9	12	9.0	-	-	6.3	330	15-1-7-5-8-3-3-1- -3-3-3-1- -1- - - - -	3.38
56-43.4783-107.7850-2-15	0-W09462	09/28/77	9	12	-	-	-	-	-	15-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	2.77
56-43.4553-107.8072-2-15	0-W09463	09/28/77	9	12	-	-	-	-	-	8-1-4-5-4- - - - - - - - - - -1- - - - -	2.35
56-43.4464-107.7856-2-15	0-W09464	09/28/77	9	12	-	-	-	-	-	8-1-4-5-4- -1- -2-3-3-3-1- -1- - - - -	2.17
56-43.4864-107.7603-2-15	0-W09467	09/28/77	10	13	-	-	-	-	-	23-1-4-5-4- -1- -2-3-3-3-1- -1- - - - -	2.66
56-43.4336-107.7936-2-15	0-W09469	09/28/77	10	14	-	-	-	-	-	18-1-4-6-4- -1- -2-3-3-3-1- -1- - - - -	3.01
56-43.4319-107.7942-2-15	0-W09470	09/28/77	10	14	-	-	-	-	-	16-1-4-6-4- -1- -2-3-3-3-1- -1- - - - -	3.06
56-43.4142-107.7831-2-12	0-W09471	09/28/77	11	15	12.0	-	-	6.1	360	10-1-7-5-6-3-3-1- -3-3-3-1- -1- - - - -	2.61
56-43.3503-107.7742-2-15	0-W09473	09/28/77	11	15	-	-	-	-	-	30-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	4.21
56-43.3500-107.7717-2-15	0-W09474	09/28/77	11	15	-	-	-	-	-	25-1-7-5-6- -1- -2-3-3-3-1- -1- - - - -	6.40
56-43.3156-107.8550-2-15	0-W09475	09/28/77	12	15	-	-	-	-	-	16-1-7-4-6- -1- -2-3-3-3-1- -1- - - - -	3.12
56-43.3944-107.8550-2-15	0-W09476	09/28/77	12	15	-	-	-	-	-	16-1-7-4-6- -1- -2-3-3-3-1- -1- - - - -	5.45
56-43.3964-107.8594-2-15	0-W09478	09/28/77	12	15	-	-	-	-	-	16-1-7-4-6- -1- -2-3-3-3-1- -1- - - - -	10.64
56-43.4019-107.8725-2-15	0-W09479	09/28/77	13	15	-	-	-	-	-	16-1-7- - - - - -2-3-3-3-1- -1- - - - -	33.96
56-43.3536-107.8733-2-15	0-W09480	09/28/77	13	15	-	-	-	-	-	15-1-7-4-6- -1- -2-3-3-3-1- -1- - - - -	5.26
56-43.3528-107.8836-2-15	0-W09481	09/28/77	13	15	-	-	-	-	-	16-1-7-4-6- -1- -2-3-3-3-1- -1- - - - -	8.13
56-43.3917-107.9006-2-15	0-W09483	09/28/77	14	15	-	-	-	-	-	16-1-7-4-6- -1- -2-3-3-3-1- -1- - - - -	11.52
56-43.4006-107.8867-2-15	0-W09484	09/28/77	14	15	-	-	-	-	-	16-1-7-4-6- -1- -2-3-3-3-1- -1- - - - -	115.50
56-43.4006-107.8844-2-15	0-W09485	09/28/77	14	15	-	-	-	-	-	16-1-7-4-6- -1- -2-3-3-3-1- -1- - - - -	73.39

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.4344-107.4656-2-12-						0-W09420	-5	-5	-5	53	-20	29	12	-10	-15	2	42
56-43.4222-107.4483-2-11-						0-W09421	-5	-5	-5	41	-20	34	-5	-10	-15	2	37
56-43.4286-107.4169-2-11-						0-W09422	-5	-5	-5	39	-20	35	9	-10	-15	2	40
56-43.4250-107.3769-2-12-						0-W09423	-5	6	-5	43	24	24	5	-10	-15	2	34
56-43.4139-107.4100-2-12-						0-W09424	-5	-5	-5	58	-20	32	10	-10	-15	2	28
56-43.4092-107.4117-2-12-						0-W09425	-5	-5	-5	42	-20	34	10	-10	18	2	28
56-43.4328-107.5039-2-15-						0-W09426	-5	-5	-5	26	-20	33	5	-10	-15	2	25
56-43.4272-107.5328-2-15-						0-W09427	-5	-5	-5	24	-20	-15	11	-10	-15	1	25
56-43.3961-107.5258-2-15-						0-W09428	-5	-5	-5	26	-20	17	9	-10	-15	2	25
56-43.3806-107.5097-2-15-						0-W09429	-5	-5	-5	23	-20	-15	10	11	-15	2	24
56-43.3800-107.5611-2-15-						0-W09431	-5	-5	-5	18	-20	20	-5	-10	16	2	18
56-43.4928-107.5489-2-15-						0-W09432	-5	-5	-5	31	-20	-15	25	-10	-15	2	38
56-43.4628-107.5314-2-11-						0-W09433	-5	-5	-5	24	-20	17	21	-10	-15	2	30
56-43.4606-107.5825-2-11-						0-W09434	-5	-5	-5	26	-20	-15	17	-10	-15	2	25
56-43.4450-107.5894-2-12-						0-W09435	-5	-5	-5	12	-20	-15	7	-10	-15	2	29
56-43.4433-107.5872-2-11-						0-W09436	-5	-5	-5	32	-20	23	13	-10	-15	2	32
56-43.3939-107.6094-2-15-						0-W09437	-5	6	-5	11	-20	-15	5	-10	-15	2	44
56-43.3469-107.5839-2-15-						0-W09440	-5	-5	-5	13	-20	19	13	-10	16	2	43
56-43.3292-107.5703-2-15-						0-W09442	-5	-5	-5	22	-20	26	13	-10	-15	2	29
56-43.3631-107.5369-2-15-						0-W09443	-5	-5	-5	16	-20	29	7	-10	-15	2	37
56-43.3403-107.4311-2-15-						0-W09446	-5	-5	-5	20	-20	25	11	-10	-15	2	25
56-43.3289-107.4281-2-15-						0-W09447	-5	-5	-5	24	-20	20	8	-10	-15	2	22
56-43.3233-107.4006-2-12-						0-W09449	-5	-5	-5	30	-20	18	7	-10	-15	2	33
56-43.3217-107.3986-2-15-						0-W09450	-5	-5	-5	23	-20	-15	7	-10	-15	2	37
56-43.3019-107.3900-2-15-						0-W09451	-5	-5	-5	26	-20	19	13	-10	-15	2	30
56-43.4981-107.9725-2-12-						0-W09453	-5	-5	-5	25	-20	20	-5	-10	-15	2	30
56-43.4986-107.9467-2-12-						0-W09454	-5	-5	-5	27	-20	31	10	-10	-15	2	29
56-43.4867-107.9261-2-12-						0-W09455	-5	-5	-5	38	-20	32	11	-10	-15	2	35
56-43.4767-107.8858-2-12-						0-W09457	-5	-5	-5	35	-20	34	19	-10	-15	2	29
56-43.4747-107.8842-2-12-						0-W09458	-5	-5	-5	44	-20	37	9	14	-15	2	28
56-43.4806-107.8414-2-15-						0-W09459	-5	-5	-5	13	-20	28	16	-10	-15	2	33
56-43.4622-107.8461-2-12-						0-W09460	-5	-5	-5	17	-20	21	9	-10	-15	2	27
56-43.4839-107.7989-2-11-						0-W09461	-5	-5	-5	20	-20	15	7	-10	-15	2	24
56-43.4783-107.7850-2-15-						0-W09462	-5	-5	-5	18	-20	-15	7	-10	-15	2	32
56-43.4553-107.8072-2-15-						0-W09463	-5	-5	-5	20	-20	15	13	-10	-15	2	31
56-43.4464-107.7856-2-15-						0-W09464	-5	-5	-5	32	-20	23	-5	-10	-15	2	42
56-43.4864-107.7603-2-15-						0-W09467	-5	-5	-5	14	-20	-15	14	-10	-15	2	40
56-43.4336-107.7936-2-15-						0-W09469	-5	-5	-5	31	-20	27	7	-10	-15	2	33
56-43.4319-107.7942-2-15-						0-W09470	-5	-5	-5	24	-20	22	9	-10	-15	-1	40
56-43.4142-107.7831-2-12-						0-W09471	-5	-5	-5	18	-20	29	17	-10	-15	2	30
56-43.3503-107.7742-2-15-						0-W09473	-5	-5	-5	16	-20	-15	21	-10	-15	2	43
56-43.3500-107.7717-2-15-						0-W09474	-5	-5	-5	27	-20	22	22	-10	-15	2	50
56-43.3156-107.8550-2-15-						0-W09475	-5	-5	-5	23	-20	-15	10	-10	-15	2	36
56-43.3944-107.8550-2-15-						0-W09476	-5	-5	-5	28	-20	-15	20	-10	-15	2	45
56-43.3964-107.8594-2-15-						0-W09478	-5	-5	-5	19	-20	-15	12	-10	-15	2	38
56-43.4019-107.8725-2-15-						0-W09479	-5	-5	-5	22	-20	34	29	-10	-15	3	45
56-43.3536-107.8733-2-15-						0-W09480	-5	-5	-5	27	26	-15	17	-10	-15	2	30
56-43.3528-107.8836-2-15-						0-W09481	-5	-5	-5	21	25	36	20	-10	-15	2	29
56-43.3917-107.9006-2-15-						0-W09483	-5	-5	-5	40	-20	32	22	-10	-15	3	38
56-43.4006-107.8867-2-15-						0-W09484	-5	-5	-5	31	-20	22	29	-10	-15	3	49
56-43.4006-107.8844-2-15-						0-W09485	-5	-5	-5	22	-20	36	19	-10	-15	3	40

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.4344-	107.4656-	2-	12-	0-	W09420	62840	-0.06	669	11860	50	822	10.4	79	1.8	4	1.0	19510	8.0	18010	31	0.3
56-	43.4227-	107.4483-	2-	11-	0-	W09421	62290	-0.06	477	14210	66	-77	13.7	88	2.6	3	1.1	22220	10.1	16350	37	0.4
56-	43.4286-	107.4169-	2-	11-	0-	W09422	59480	-0.07	-158	12210	79	247	13.3	96	2.9	2	1.1	22720	10.3	16350	37	0.4
56-	43.4250-	107.3769-	2-	12-	0-	W09423	56030	-0.09	-183	14100	72	-100	14.8	79	-2.0	3	1.1	24290	9.1	17520	37	0.5
56-	43.4139-	107.4100-	2-	12-	0-	W09424	56160	-0.07	480	14570	63	-85	14.2	69	1.8	4	1.1	24580	8.2	16420	32	0.5
56-	43.4092-	107.4117-	2-	12-	0-	W09425	55620	-0.07	564	15000	62	-84	16.0	76	3.1	4	1.3	27610	8.7	14290	42	0.4
56-	43.4328-	107.5039-	2-	15-	0-	W09426	45880	-0.07	544	11460	58	-77	9.1	79	2.3	-1	0.9	16500	8.8	13340	33	0.3
56-	43.4272-	107.5328-	2-	15-	0-	W09427	47430	-0.08	598	12680	55	251	8.9	59	-1.7	2	0.8	16640	7.5	13580	27	0.3
56-	43.3961-	107.5256-	2-	15-	0-	W09428	55970	-0.04	702	26230	53	87	5.4	41	1.5	3	1.0	10340	7.9	15060	32	0.4
56-	43.3806-	107.5097-	2-	15-	0-	W09429	53800	-0.05	578	33710	65	-58	8.5	45	2.1	3	0.9	13430	8.0	10860	37	0.3
56-	43.3800-	107.5611-	2-	15-	0-	W09431	40410	-0.05	397	18120	50	-45	6.4	39	2.3	1	0.7	10040	8.6	10240	26	0.3
56-	43.4928-	107.5489-	2-	15-	0-	W09432	64170	-0.07	870	31940	59	-68	6.0	63	2.3	1	0.8	14390	5.8	15140	33	0.3
56-	43.4628-	107.5314-	2-	11-	0-	W09433	56300	-0.05	800	39250	63	-67	6.0	49	2.3	3	0.9	11970	8.7	17850	37	0.3
56-	43.4606-	107.5825-	2-	11-	0-	W09434	51590	-0.05	721	45870	62	-63	7.1	50	2.1	3	0.9	12450	11.0	15340	43	0.3
56-	43.4450-	107.5894-	2-	12-	0-	W09435	46580	-0.06	423	49460	70	-70	7.5	51	2.9	4	1.0	12570	9.3	17520	36	0.4
56-	43.4433-	107.5872-	2-	11-	0-	W09436	50200	-0.07	507	46210	51	-78	6.1	47	-1.4	2	0.9	11950	6.7	14450	31	0.3
56-	43.3939-	107.6094-	2-	15-	0-	W09437	50010	-0.04	508	40910	61	-57	5.9	53	2.2	4	0.8	11940	10.1	20510	33	0.4
56-	43.3469-	107.5839-	2-	15-	0-	W09440	45380	-0.04	486	42710	50	199	6.9	41	2.0	3	0.8	11620	8.4	19280	26	0.4
56-	43.3292-	107.5703-	2-	15-	0-	W09442	41830	-0.05	250	30200	57	-52	7.5	46	1.8	2	0.8	11350	10.4	15380	27	0.4
56-	43.3631-	107.5369-	2-	15-	0-	W09443	49310	-0.07	377	31450	58	1357	7.9	46	2.0	3	0.9	13320	9.8	13230	36	0.3
56-	43.3403-	107.4311-	2-	15-	0-	W09446	50270	-0.04	636	34190	71	-69	5.1	51	1.4	4	0.8	10740	18.4	12030	43	0.5
56-	43.3289-	107.4281-	2-	15-	0-	W09447	51980	-0.04	550	28950	55	-65	6.3	43	1.9	3	0.8	11010	7.2	17480	30	0.3
56-	43.3233-	107.4006-	2-	12-	0-	W09449	62020	-0.07	396	16530	66	-84	11.6	68	2.3	2	1.0	18430	10.6	13800	38	0.5
56-	43.3217-	107.3986-	2-	15-	0-	W09450	56440	-0.06	827	32560	57	-80	6.6	45	-1.3	3	0.8	13950	12.7	17630	34	0.4
56-	43.3019-	107.3900-	2-	15-	0-	W09451	62470	-0.05	651	24170	44	-74	6.0	44	2.2	3	0.8	10930	6.8	15510	26	0.3
56-	43.4981-	107.9725-	2-	12-	0-	W09453	50860	-0.06	470	14600	87	-70	10.0	64	2.6	4	1.1	20250	12.4	15860	42	0.5
56-	43.4986-	107.9467-	2-	12-	0-	W09454	47720	-0.07	438	10640	83	-80	10.1	68	2.9	2	1.0	19480	14.7	17510	46	0.5
56-	43.4867-	107.9261-	2-	12-	0-	W09455	57560	-0.07	635	14300	61	-73	9.5	65	2.8	5	0.7	19390	9.1	14350	33	0.4
56-	43.4767-	107.8858-	2-	12-	0-	W09457	55110	-0.07	425	13610	67	-72	11.6	70	2.7	5	1.1	23200	12.0	15170	40	0.5
56-	43.4747-	107.8842-	2-	12-	0-	W09458	51120	-0.09	409	24730	97	-100	16.8	97	2.2	5	1.0	33170	14.3	10920	41	0.7
56-	43.4806-	107.8414-	2-	15-	0-	W09459	50240	-0.08	609	22970	57	-65	5.9	46	3.0	4	0.9	12080	8.3	23780	32	0.5
56-	43.4622-	107.8461-	2-	12-	0-	W09460	60650	-0.06	551	19130	61	-65	6.5	39	2.5	5	0.8	14230	8.0	16390	34	0.4
56-	43.4839-	107.7989-	2-	11-	0-	W09461	47870	-0.07	587	10890	63	-70	10.2	58	1.6	5	1.0	17780	14.2	18730	36	0.5
56-	43.4783-	107.7850-	2-	15-	0-	W09462	51640	-0.07	579	18880	77	-57	7.1	52	2.9	4	0.9	15250	12.6	21460	35	0.5
56-	43.4553-	107.8072-	2-	15-	0-	W09463	51020	-0.08	466	13590	50	-69	5.8	37	2.9	3	0.8	12430	6.6	18120	26	0.3
56-	43.4464-	107.7856-	2-	15-	0-	W09464	52210	-0.06	530	22150	44	-60	6.1	44	2.5	4	0.9	11970	6.9	19450	29	0.3
56-	43.4864-	107.7603-	2-	15-	0-	W09467	49880	-0.06	592	39390	49	-65	6.6	33	2.1	3	0.8	12120	7.0	21050	29	0.3
56-	43.4336-	107.7936-	2-	15-	0-	W09469	49160	-0.06	579	32380	77	-68	7.2	54	2.3	4	0.9	13300	11.6	12590	40	0.5
56-	43.4319-	107.7942-	2-	15-	0-	W09470	51510	-0.08	561	42270	53	-75	6.5	55	2.0	3	1.0	11990	7.7	13830	34	0.3
56-	43.4142-	107.7831-	2-	12-	0-	W09471	48400	-0.06	669	46790	46	-66	5.5	46	1.5	3	0.7	10270	7.4	15430	30	0.3
56-	43.3503-	107.7742-	2-	15-	0-	W09473	51160	-0.06	539	41660	86	-46	7.5	31	3.4	6	1.0	19440	10.5	29240	44	0.5
56-	43.3500-	107.7717-	2-	15-	0-	W09474	52570	-0.07	591	38640	107	-57	8.3	45	3.0	5	1.2	19900	13.5	23840	47	0.6
56-	43.3156-	107.8550-	2-	15-	0-	W09475	66960	-0.07	1424	50030	58	-97	5.8	42	1.7	3	1.0	12070	6.9	14610	42	0.2
56-	43.3944-	107.8550-	2-	15-	0-	W09476	68760	-0.06	1142	27250	61	-77	8.1	45	1.9	3	0.8	14780	4.9	16570	38	0.2
56-	43.3964-	107.8594-	2-	15-	0-	W09478	60060	-0.06	915	25950	71	-73	6.7	43	2.4	4	0.9	14110	8.7	16560	47	0.4
56-	43.4019-	107.8725-	2-	15-	0-	W09479	54760	-0.07	571	15270	87	-87	9.3	58	2.4	3	0.8	15740	8.3	15640	57	0.5
56-	43.3536-	107.8733-	2-	15-	0-	W09480	75110	-0.07	1412	34940	65	-101	7.4	43	1.8	2	1.1	13370	5.4	12110	45	0.2
56-	43.3528-	107.8836-	2-	15-	0-	W09481	75900	-0.06	3765	33020	194	-90	7.1	57	1.2	7	1.3	14370	18.3	14150	125	0.5
56-	43.3917-	107.9006-	2-	15-	0-	W09483	64810	0.12	449	17430	74	-80	8.0	42	3.0	4	0.7	16040	6.5	15280	46	0.3
56-	43.4006-	107.8867-	2-	15-	0-	W09484	57410	-0.09	516	14860	102	-81	8.9	73	3.1	4	1.0	18080	7.4	15880	117	0.7
56-	43.4006-	107.8844-	2-	15-	0-	W09485	58510	-0.10	572	17030	56	-87	8.4	47	2.7	3	0.6	15810	6.0	17270	74	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	43.4344-	107.4656-2-	12-			0-W09420	23350	587	9284	41	-2	9.2	3.6	-298	-1	-1	9.1	4665	104	2.7	-66	0.271
56-	43.4222-	107.4483-2-	11-			0-W09421	18320	650	9542	45	-2	10.7	4.8	-307	-1	-1	12.6	4082	92	3.4	89	0.208
56-	43.4286-	107.4169-2-	11-			0-W09422	14750	613	9076	-22	-2	10.8	4.8	-344	-1	-1	11.6	4497	86	3.9	-66	0.216
56-	43.4250-	107.3769-2-	12-			0-W09423	15540	832	10480	32	-3	12.6	3.5	-401	-1	-1	9.1	4817	114	3.0	-50	0.299
56-	43.4139-	107.4100-2-	12-			0-W09424	17750	841	10170	-20	-2	12.5	5.3	-346	-1	-1	8.8	5322	126	2.4	56	0.320
56-	43.4092-	107.4117-2-	12-			0-W09425	15550	894	10370	48	-2	14.2	5.1	-344	-1	-1	9.1	4822	128	4.2	98	0.296
56-	43.4328-	107.5039-2-	15-			0-W09426	10510	266	8735	34	-2	6.2	3.6	-272	-1	-1	10.2	3807	60	3.0	95	0.253
56-	43.4272-	107.5328-2-	15-			0-W09427	14960	358	8814	-29	-3	6.3	-4.0	-324	-1	-1	8.6	3267	68	-1.7	-44	0.317
56-	43.3961-	107.5258-2-	15-			0-W09428	19490	303	10150	27	-1	4.5	3.6	-222	-1	-1	9.8	3011	45	2.1	59	0.309
56-	43.3806-	107.5097-2-	15-			0-W09429	15570	275	8014	-15	-1	6.1	3.5	-202	-1	-1	9.2	2686	53	2.4	56	0.318
56-	43.3800-	107.5611-2-	15-			0-W09431	9253	215	3820	27	-1	4.7	3.0	-185	-1	-1	7.8	1606	34	2.6	33	0.326
56-	43.4928-	107.5489-2-	15-			0-W09432	16830	235	6292	-24	-2	7.3	2.8	-243	-1	-1	7.3	3011	85	-1.5	-65	0.474
56-	43.4628-	107.5314-2-	11-			0-W09433	19450	387	7663	32	-2	5.3	3.8	-252	-1	-1	10.2	3148	54	2.7	51	0.298
56-	43.4606-	107.5825-2-	11-			0-W09434	23210	300	7635	54	-2	5.8	4.0	-221	-1	-1	10.1	3003	54	3.3	44	0.309
56-	43.4450-	107.5894-2-	12-			0-W09435	15970	353	5583	44	-2	5.5	5.4	-284	-1	-1	10.6	1686	38	3.2	48	0.258
56-	43.4433-	107.5872-2-	11-			0-W09436	21560	300	7279	-23	-2	5.7	3.0	-280	-1	1	9.8	2151	53	-1.5	-36	0.288
56-	43.3939-	107.6094-2-	15-			0-W09437	18610	420	6588	42	-1	5.4	4.2	-225		-1	10.1	3183	60	3.1	54	0.330
56-	43.3469-	107.5839-2-	15-			0-W09440	21990	316	4138	41	-1	5.6	3.7	-197	-1	-1	9.3	2660	33	2.9	62	0.302
56-	43.3292-	107.5703-2-	15-			0-W09442	15860	300	4481	35	-1	5.3	4.8	-214	-1	-1	10.4	1274	36	3.7	51	0.244
56-	43.3631-	107.5369-2-	15-			0-W09443	20020	358	11160	-21	-2	6.3	3.4	-291	-1	-1	10.5	2772	52	3.3	-38	0.299
56-	43.3403-	107.4311-2-	15-			0-W09446	15420	385	11360	23	-1	5.1	4.8	-226	-1	1	13.7	3551	48	4.0	49	0.286
56-	43.3289-	107.4281-2-	15-			0-W09447	13970	296	11570	42	-1	5.6	3.3	-205		-1	8.2	2375	40	2.6	-19	0.294
56-	43.3233-	107.4006-2-	12-			0-W09449	10310	444	12080	43	-2	8.6	4.6	-298	-1	-1	11.3	2580	56	3.8	58	0.279
56-	43.3217-	107.3986-2-	15-			0-W09450	17100	468	10440	35	-2	6.4	3.1	-289	-1	-1	10.4	2906	50	3.4	-31	0.293
56-	43.3019-	107.3900-2-	15-			0-W09451	13750	305	13200	37	-1	5.2	3.4	-232	-1	-1	8.3	2748	47	2.7	17	0.311
56-	43.4981-	107.9725-2-	12-			0-W09453	12850	550	8023	42	-2	8.8	4.8	-285	-1	-1	13.4	4038	64	4.5	84	0.404
56-	43.4986-	107.9467-2-	12-			0-W09454	10990	488	7808	49	-2	8.1	5.3	-314	-1	-1	13.9	2459	55	4.2	63	0.339
56-	43.4867-	107.9261-2-	12-			0-W09455	17020	566	9147	41	-2	9.3	3.8	-292	-1	-1	10.2	4996	94	3.0	68	0.606
56-	43.4767-	107.8858-2-	12-			0-W09457	15670	706	8736	59	-2	9.8	4.4	-301	-1	-1	13.1	5468	79	4.0	-26	0.334
56-	43.4747-	107.8842-2-	12-			0-W09458	22020	1108	10720	31	-3	15.0	5.4	-421	2	-1	17.9	6914	117	4.6	-28	0.346
56-	43.4806-	107.8414-2-	15-			0-W09459	16260	371	5724	64	-2	5.6	2.9	-261	-1	-1	8.4	2347	51	3.0	-29	0.300
56-	43.4622-	107.8461-2-	12-			0-W09460	14970	299	9032	48	-2	6.1	3.7	-220	-1	-1	12.3	3751	52	3.4	53	0.295
56-	43.4839-	107.7989-2-	11-			0-W09461	10770	552	9797	47	-2	7.7	4.1	398	-1	-1	9.9	5437	66	4.1	-25	0.341
56-	43.4783-	107.7850-2-	15-			0-W09462	14570	379	5170	56	-2	6.4	5.8	-241	-1	-1	11.8	2759	46	4.6	48	0.235
56-	43.4553-	107.8072-2-	15-			0-W09463	17320	420	6458	42	-2	6.3	2.6	-275	-1	-1	8.1	3330	51	-1.5	-31	0.290
56-	43.4464-	107.7856-2-	15-			0-W09464	19700	418	6626	37	-2	6.0	3.7	-237		-1	7.9	3470	55	2.4	49	0.275
56-	43.4864-	107.7603-2-	15-			0-W09467	20640	367	10020	33	-2	6.1	3.1	-220	-1	-1	6.5	2823	49	1.9	45	0.409
56-	43.4336-	107.7936-2-	15-			0-W09469	17190	346	8246	43	-2	6.1	5.8	295	1	-1	13.5	2474	56	3.5	63	0.223
56-	43.4319-	107.7942-2-	15-			0-W09470	19270	352	8468	34	-2	5.9	3.5	-262	-1	-1	9.3	2864	64	-1.9	-31	0.329
56-	43.4142-	107.7831-2-	12-			0-W09471	17050	330	8488	31	-2	4.9	3.3	373	-1	-1	7.7	2697	59	-1.3	36	0.339
56-	43.3503-	107.7742-2-	15-			0-W09473	16640	499	3231	54	-2	7.1	6.0	-215	-1	-1	13.2	2673	40	4.5	45	0.319
56-	43.3500-	107.7717-2-	15-			0-W09474	15100	503	3911	60	-2	7.5	7.8	-255	-1	-1	16.4	2676	45	4.1	-24	0.390
56-	43.3156-	107.8550-2-	15-			0-W09475	16750	536	15310	-20	-2	5.3	2.9	602	-1	-1	10.9	2737	47	-1.8	-27	0.286
56-	43.3944-	107.8550-2-	15-			0-W09476	22030	495	12530	31	-2	6.4	4.2	662	-1	-1	10.3	3308	73	2.1	-35	0.529
56-	43.3964-	107.8594-2-	15-			0-W09478	16050	430	13420	39	-2	6.2	5.5	338	-1	-1	15.7	3611	49	4.4	72	0.678
56-	43.4019-	107.8725-2-	15-			0-W09479	15720	399	13950	57	-2	7.9	11.3	-287	1	-1	24.2	3000	60	4.8	84	1.403
56-	43.3536-	107.8733-2-	15-			0-W09480	14160	428	19240	42	-2	5.5	4.1	930	-1	-1	13.4	2766	53	2.0	75	0.393
56-	43.3528-	107.8836-2-	15-			0-W09481	15000	513	19730	43	-2	5.5	12.7	1097	1	1	58.7	4101	59	4.9	52	0.139
56-	43.3917-	107.9006-2-	15-			0-W09483	11130	488	16250	52	-2	7.4	6.3	-256	1	-1	26.9	4826	56	3.3	45	0.428
56-	43.4006-	107.8867-2-	15-			0-W09484	13700	346	10660	40	-3	8.4	17.0	-283	1	-1	19.7	2429	76	3.1	91	5.863
56-	43.4006-	107.8844-2-	15-			0-W09485	17310	374	10750	46	-3	8.3	12.2	-303	-1	-1	13.7	2988	81	-2.1	-40	5.357

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.4086-107.9178-2-15-						0-W09486-09/28/77-14-			15-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	7.39
56-43.4142-107.9528-2-15-						0-W09488-09/28/77-15-			15-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	4.10
56-43.4156-107.9542-2-12-						0-W09489-09/28/77-15-			15-	9.0-	-	-	6.1-	200-		16-1-7-4-6-3-3-1-		-3-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	4.61
56-43.4239-107.9758-2-12-						0-W09490-09/28/77-15-			15-	10.0-	-	-	6.1-	210-		33-1-7-4-6-3-3-1-		-3-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	3.86
56-43.3414-107.9856-2-15-						0-W09494-09/28/77-16-			15-		-	-	-	-	-	8-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
56-43.3281-107.9797-2-15-						0-W09495-09/28/77-16-			15-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.88
56-43.3072-107.9756-2-15-						0-W09496-09/28/77-16-			15-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.66
56-43.3144-107.9597-2-15-						0-W09497-09/28/77-17-			15-		-	-	-	-	-	33-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	4.16
56-43.3303-107.9367-2-15-						0-W09498-09/28/77-17-			15-		-	-	-	-	-	25-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	4.09
56-43.2841-107.8872-2-15-						0-W09500-09/28/77-18-			15-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	7.48
56-43.3039-107.9042-2-15-						0-W09501-09/28/77-18-			15-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	7.74
56-43.3178-107.8131-2-15-						0-W09502-09/29/77-	7-		12-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	6.02
56-43.3122-107.8103-2-15-						0-W09503-09/29/77-	7-		12-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	5.11
56-43.3233-107.7728-2-15-						0-W09504-09/29/77-	7-		12-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	5.86
56-43.2686-107.8233-2-15-						0-W09505-09/29/77-	7-		-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.51
56-43.2647-107.8086-2-15-						0-W09506-09/29/77-	8-		12-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.56
56-43.2739-107.7847-2-15-						0-W09507-09/29/77-	8-		12-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.97
56-43.2822-107.7733-2-15-						0-W09508-09/29/77-	8-		12-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
56-43.3119-107.7489-2-15-						0-W09509-09/29/77-	8-		12-		-	-	-	-	-	16-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.25
56-43.4039-107.6972-2-15-						0-W09511-09/29/77-	8-		13-		-	-	-	-	-	16-1-7-	-	- -1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.86
56-43.4475-107.6278-2-11-						0-W09512-09/29/77-	9-		14-	9.0-	-	-	6.1-	370-		8-1-7-5-8-3-3-1-		-3-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	2.68
56-43.4206-107.6311-2-15-						0-W09514-09/29/77-	9-		13-		-	-	-	-	-	16-1-7-5-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.25
56-43.3853-107.6314-2-15-						0-W09515-09/29/77-	9-		14-		-	-	-	-	-	8-1-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.79
56-43.3925-107.6569-2-12-						0-W09516-09/29/77-10-			14-	9.0-	-	-	6.5-	480-		8-1-7-5-6-3-3-1-		-3-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	2.23
56-43.4089-107.6531-2-11-						0-W09517-09/29/77-10-			14-	8.0-	-	-	6.3-	350-		10-1-7-5-6-3-3-1-		-3-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	2.44

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						USGS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	SITE/DATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.4086-107.9178-2-15-						0-W09486	-5	-5	-5	13	-20	-15	13	11	-15	2	41
56-43.4142-107.9528-2-15-						0-W09488	-5	-5	-5	52	-20	44	15	-10	-15	2	46
56-43.4156-107.9542-2-12-						0-W09489	6	-5	-5	43	-20	26	10	-10	-15	2	43
56-43.4239-107.9758-2-12-						0-W09490	-5	-5	-5	38	-20	51	11	-10	20	2	46
56-43.3414-107.9856-2-15-						0-W09494	-5	-5	-5	35	-20	20	18	-10	-15	3	49
56-43.3281-107.9797-2-15-						0-W09495	-5	-5	-5	42	-20	30	13	-10	-15	3	43
56-43.3072-107.9756-2-15-						0-W09496	-5	-5	-5	19	25	41	7	-10	-15	3	44
56-43.3144-107.9597-2-15-						0-W09497	-5	-5	-5	19	-20	-15	12	-10	-15	3	52
56-43.3303-107.9367-2-15-						0-W09498	-5	-5	-5	49	-20	28	21	-10	-15	3	50
56-43.2861-107.8872-2-15-						0-W09500	-5	-5	-5	25	-20	-15	36	-10	-15	3	46
56-43.3039-107.9042-2-15-						0-W09501	-5	-5	-5	18	20	-15	31	-10	-15	3	40
56-43.3128-107.8131-2-15-						0-W09502	-5	-5	-5	14	-20	-15	19	-10	-15	2	38
56-43.3122-107.8103-2-15-						0-W09503	-5	-5	-5	19	-20	23	20	-10	-15	2	38
56-43.3233-107.7723-2-15-						0-W09504	-5	-5	-5	25	-20	-15	22	-10	-15	2	46
56-43.2686-107.8233-2-15-						0-W09505	-5	-5	-5	25	-20	19	21	-10	-15	2	35
56-43.2647-107.8086-2-15-						0-W09506	-5	-5	-5	17	-20	-15	6	-10	-15	2	25
56-43.2739-107.7847-2-15-						0-W09507	-5	-5	-5	23	-20	24	8	-10	-15	2	32
56-43.2822-107.7733-2-15-						0-W09508	-5	5	-5	13	-20	22	6	-10	-15	2	40
56-43.3119-107.7489-2-15-						0-W09509	-5	-5	-5	23	-20	19	-5	-10	-15	2	28
56-43.4039-107.6972-2-15-						0-W09511	-5	-5	-5	23	-20	-15	9	-10	-15	2	41
56-43.4475-107.6278-2-11-						0-W09512	-5	-5	-5	15	-20	22	14	-10	-15	2	26
56-43.4206-107.6311-2-15-						0-W09514	-5	-5	-5	24	-20	37	19	-10	-15	2	31
56-43.3853-107.6314-2-15-						0-W09515	-5	-5	-5	27	-20	22	15	-10	-15	2	34
56-43.3925-107.6569-2-12-						0-W09516	-5	-5	-5	16	-20	-15	-5	-10	-15	2	22
56-43.4089-107.6531-2-11-						0-W09517	-5	-5	-5	19	-20	-15	11	-10	-15	2	23

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.4086-	107.9178-	2-	15-	0-	W09496	50440	-0.05	550	31860	66	-71	5.5	42	1.8	4	0.7	13010	10.2	16110	42	0.4
56-	43.4142-	107.9528-	2-	15-	0-	W09498	57800	-0.08	346	23570	48	-85	15.0	86	3.7	4	0.9	30320	6.6	11270	34	0.3
56-	43.4156-	107.9542-	2-	12-	0-	W09499	52460	-0.08	395	20600	69	135	12.6	85	2.4	4	0.9	26210	12.1	10100	42	0.5
56-	43.4239-	107.9758-	2-	12-	0-	W09490	51510	-0.10	383	22840	68	-103	10.7	73	2.1	3	0.9	24270	9.9	12070	39	0.5
56-	43.3414-	107.9856-	2-	15-	0-	W09494	59090	-0.05	553	29600	61	91	6.3	33	2.1	4	0.8	13700	7.3	12400	33	0.3
56-	43.3281-	107.9797-	2-	15-	0-	W09495	58530	-0.06	563	31850	67	-73	10.3	53	2.8	4	0.9	21110	8.7	16330	43	0.4
56-	43.3072-	107.9756-	2-	15-	0-	W09496	55910	-0.05	524	29260	79	-84	7.8	46	2.7	4	1.0	14610	8.0	16520	43	0.4
56-	43.3144-	107.9597-	2-	15-	0-	W09497	61830	-0.08	571	36480	75	-90	6.3	48	2.1	4	0.9	14430	8.7	16510	41	0.3
56-	43.3303-	107.9367-	2-	15-	0-	W09498	63310	-0.06	1007	21660	54	-84	9.5	52	2.5	3	0.8	20510	6.8	16540	39	0.3
56-	43.2861-	107.8872-	2-	15-	0-	W09500	72390	-0.10	535	4274	95	-87	6.6	31	4.2	5	0.8	14190	9.0	28900	47	0.5
56-	43.3039-	107.9042-	2-	15-	0-	W09501	63430	-0.06	458	5906	106	-76	4.4	31	3.4	5	0.8	13260	14.1	27260	52	0.5
56-	43.3128-	107.8131-	2-	15-	0-	W09502	55000	-0.07	914	23170	71	106	5.2	24	1.6	4	1.0	10330	10.6	23990	42	0.4
56-	43.3122-	107.8103-	2-	15-	0-	W09503	50900	-0.05	688	26810	52	82	4.4	25	1.6	4	0.8	9141	7.3	24700	30	0.3
56-	43.3233-	107.7728-	2-	15-	0-	W09504	60100	-0.05	771	19850	78	-54	6.5	32	2.5	5	1.0	12760	10.6	25960	45	0.4
56-	43.2686-	107.8233-	2-	15-	0-	W09505	47080	-0.06	950	29900	88	-73	6.9	46	2.1	4	0.9	11810	13.5	13960	46	0.5
56-	43.2647-	107.8086-	2-	15-	0-	W09506	43970	-0.06	705	23720	52	-76	3.9	22	-0.9	2	0.9	7110	9.1	13450	32	0.3
56-	43.2739-	107.7847-	2-	15-	0-	W09507	48150	-0.04	797	30210	51	-65	4.1	30	1.8	3	0.8	7763	7.9	14890	30	0.3
56-	43.2822-	107.7733-	2-	15-	0-	W09508	55640	-0.05	721	28820	61	-68	5.7	42	2.5	3	1.0	10850	9.5	15340	42	0.3
56-	43.3119-	107.7489-	2-	15-	0-	W09509	42900	-0.06	610	26140	66	-63	5.6	43	2.0	3	0.9	9962	13.9	13300	34	0.4
56-	43.4039-	107.6972-	2-	15-	0-	W09511	49540	-0.08	483	22530	47	246	6.3	44	1.7	3	0.9	11170	8.2	20480	37	0.4
56-	43.4475-	107.6278-	2-	11-	0-	W09512	47190	-0.05	1705	32470	54	-50	4.7	29	2.1	3	0.5	9222	9.9	13400	25	0.3
56-	43.4206-	107.6311-	2-	15-	0-	W09514	81810	-0.06	1788	30700	70	-91	9.3	52	1.1	2	0.6	17510	6.6	14410	49	0.3
56-	43.3853-	107.6314-	2-	15-	0-	W09515	74250	-0.07	1356	28510	65	-96	10.3	52	2.0	2	1.0	18180	4.8	12250	43	0.2
56-	43.3925-	107.6569-	2-	12-	0-	W09516	45660	-0.07	1479	31000	42	-55	4.5	21	2.4	2	1.1	9005	7.5	11020	26	0.2
56-	43.4089-	107.6531-	2-	11-	0-	W09517	48260	-0.05	1410	31610	49	-49	4.4	31	2.1	3	0.6	9388	8.7	13840	33	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.4086-107.9178-2-15-			0	W	0	W09486	20780	460	12110	39	-2	6.0	5.3	373	1	-1	17.9	3792	54	3.2	-44	0.413
56-43.4142-107.9528-2-15-			0	W	0	W09488	23500	471	12810	55	-2	14.0	3.9	-314	-1	-1	11.7	5067	106	2.8	64	0.350
56-43.4156-107.9542-2-12-			0	W	0	W09489	19090	666	11970	38	-3	12.6	5.3	-311	-1	-1	18.4	5451	94	4.1	-23	0.251
56-43.4239-107.9758-2-12-			0	W	0	W09490	20550	715	13280	-29	-3	11.3	3.8	-375	-1	-1	16.8	5327	89	4.4	-43	0.230
56-43.3414-107.9856-2-15-			0	W	0	W09494	18740	489	13550	32	-2	5.9	3.9	393	1	-1	12.5	3706	54	2.6	42	0.296
56-43.3281-107.9797-2-15-			0	W	0	W09495	18690	591	11530	45	-2	9.1	4.9	-260	-1	-1	15.5	3941	74	3.8	69	0.250
56-43.3072-107.9756-2-15-			0	W	0	W09496	18540	468	13370	39	-2	6.5	4.9	-277	-1	-1	14.3	3458	48	3.2	-21	0.256
56-43.3144-107.9597-2-15-			0	W	0	W09497	20540	467	13320	-21	-2	6.2	3.0	-305	-1	-1	15.8	2554	47	2.6	42	0.263
56-43.3303-107.9367-2-15-			0	W	0	W09498	13490	696	14800	49	-2	7.9	4.3	462	1	-1	15.6	4937	64	2.7	43	0.262
56-43.2861-107.8872-2-15-			0	W	0	W09500	7261	181	15680	106	-2	6.0	8.2	-265	-1	-1	36.6	2095	29	4.3	-44	0.204
56-43.3039-107.9042-2-15-			0	W	0	W09501	8537	198	15070	75	-2	5.4	7.6	-227	1	-1	36.0	2352	30	5.8	63	0.215
56-43.3128-107.9131-2-15-			0	W	0	W09502	9381	358	9381	50	-2	4.4	5.4	368	-1	-1	21.1	1663	34	5.1	-27	0.285
56-43.3122-107.9103-2-15-			0	W	0	W09503	10450	306	7429	49	-1	3.7	4.5	295		-1	13.5	2000	24	3.4	-16	0.379
56-43.3233-107.7728-2-15-			0	W	0	W09504	12060	321	7577	67	-2	5.4	4.8	385	-1	-1	19.2	2243	39	3.7	54	0.305
56-43.2686-107.8233-2-15-			0	W	0	W09505	13050	478	9871	34	-2	5.3	6.0	-266	-1	-1	13.3	2953	39	4.2		0.264
56-43.2647-107.8086-2-15-			0	W	0	W09506	8405	312	12030	-15	-2	3.5	3.2	-245		-1	7.7	1673	29	2.4	-23	0.332
56-43.2739-107.7847-2-15-			0	W	0	W09507	11820	365	11090	31	-1	3.7	3.1	244		-1	7.9	2290	34	2.6	31	0.376
56-43.2822-107.7733-2-15-			0	W	0	W09508	14420	381	12040	38	-2	5.2	3.7	-224	-1	-1	9.9	2342	40	2.7	30	0.364
56-43.3119-107.7489-2-15-			0	W	0	W09509	14280	259	8083	-14	-2	4.7	4.8	-217	-1	-1	10.1	2060	40	3.0	48	0.322
56-43.4039-107.5972-2-15-			0	W	0	W09511	27500	401	13400	28	-2	5.4	2.8	-309	-1	-1	8.1	3160	47	2.4	-32	0.477
56-43.4475-107.5278-2-11-			0	W	0	W09512	17770	170	5106	25	-2	4.0	3.5	336	-1	-1	8.3	2605	38	2.4	28	0.323
56-43.4206-107.5311-2-15-			0	W	0	W09514	13260	478	21780	27	-2	6.5	3.0	1309	-1	-1	6.5	2737	63	2.2	69	0.500
56-43.3853-107.6314-2-15-			0	W	0	W09515	10510	449	17290	-18	-2	6.2	3.2	991	-1	-1	8.1	2752	66	-1.8	-38	0.344
56-43.3925-107.6569-2-12-			0	W	0	W09516	14460	164	4824	-19	-2	4.1	2.1	253	-1	-1	6.4	2274	31	2.3	-33	0.348
56-43.4089-107.5531-2-11-			0	W	0	W09517	17880	174	5166	29	-2	3.9	3.2	343	-1	-1	8.1	2566	36	3.1	37	0.301

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APPENDIX II

REPORTED URANIUM OCCURRENCES IN THE ARMINTO QUADRANGLE, WYOMING

APPENDIX II

REPORTED URANIUM OCCURRENCES IN THE ARMINTO QUADRANGLE, WYOMING

No.	Occurrence Name	Latitude/ Longitude[a]	Township, Range/ Section	Description[b]	Reference
Copper Mountain District					
1.	Prospect	43°23'N 107°54'W	T40N, R92W/ Sec. 32	No data.	Elevatorski, 1976
2.	Little Mo Mine	43°25'N 107°55'W	T40N, R92W/ Sec. 29 NW¼	Uranium in Tepee Trail formation.	Elevatorski, 1976; Wilson, 1960
3.	E. Fork Dry Creek	43°24'N 107°52'W	T40N, R92W/ Sec. 27	No data.	Elevatorski, 1976.
4.	Robeson Mine	43°25'N 107°52'W	T40N, R92W/ Sec. 22	Uranium minerals in granite and schists.	Elevatorski, 1976; Wilson, 1960
5.	DePass William Luman	43°26'N 107°51'W	T40N, R92W/ Sec. 14	Uraninite in dump.	Elevatorski, 1976; Wilson, 1960
6.	Unknown	43°24'N 107°52'W	T40N, R92W/ Sec. 27 NW¼SE¼	Uranium in Tepee Trail formation.	Wilson, 1960
7.	Prospect	43°23'N 107°50'W	T39N, R92W/ Sec. 2 NE¼SE¼	0.002% uranium in Eocene gravel.	Elevatorski, 1976;
8.	Kermac Mine	43°23'N 107°52'W	T39N, R92W/ Sec. 3	Meta-autunite in Tepee Trail formation.	Elevatorski, 1976
9.	Kermac No. 1	43°23'N 107°51'W	T39N, R92W/ Sec. 3 SE¼NE¼NW¼	0.8% uranium (Meta-autunite) in Tepee Trail formation.	Wilson, 1960
10.	Mac claim	43°23'N 107°51'W	T39N, R92W/ Sec. 2 NW¼NW¼SE¼	Schroeckingerite in Tepee Trail formation.	Wilson, 1960
11.	Bonanza Mine	43°23'N 107°53'W	T39N, R92W/ Sec. 4	Coffinite, uraninite with hydrocarbons and FeS_2.	Elevatorski, 1976
12.	Unknown	43°21'N 107°53'W	T39N, R92W/ Sec. 16	No data.	Elevatorski, 1976
Pumpkin Buttes District					
13.	Unknown	43°30'N 106°04'W	T41N, R77W/ Sec. 25	Anomaly in ironstone of Ft. Union formation.	Sharp and Gibbons, 1964
14.	Unknown	43°33'N 106°01'W	T41N, R76W/ Sec. 5	0.009% uranium in fine-grained calcareous sand.	Sharp and Gibbons, 1964
15.	Unknown	43°34'N 106°05'W	T42N, R77W/ Sec. 35	0.04% uranium in red calcareous sandstone.	Sharp and Gibbons, 1964
16.	Unknown	43°31'N 106°05'W	T41N, R77W/ Sec. 14	Anomaly in ironstone of Ft. Union formation.	Sharp and Gibbons, 1964
17.	Happy No. 1	43°30'N 106°05'W	T41N, R77W/ Sec. 26	Uranium in carbonaceous sand of Ft. Union formation.	Elevatorski, 1976
18.	Happy No. 1	43°30'N 106°04'W	T41N, R77W/ Sec. 25	Anomaly in ironstone of Ft. Union formation.	Sharp and Gibbons, 1964
19.	Unknown	43°30'N 106°05'W	T41N, R77W/ Sec. 23	Visible uranium mineral in ironstone.	Sharp and Gibbons, 1964
20.	Taylor claims	43°35'N 106°08'W	T42N, R77W/ Sec. 29	Uranium in Ft. Union formation.	Elevatorski, 1976
21.	Jim Dandy	43°37'N 106°08'W	T42N, R77W/ Sec. 18	Uranium in gray and brown sand of Ft. Union formation.	Elevatorski, 1976
22.	Greenlee No. 1 claim	43°36'N 106°05'W	T42N, R77W/ Sec. 23 NW¼	Uranium in Wasatch formation.	Elevatorski, 1976
23.	Anomaly 44	43°36'N 106°05'W	T42N, R77W/ Sec. 23 NE¼NW¼	Anomaly in Wasatch formation.	Sharp and Gibbons, 1964
24.	Hanna Mine	43°36'N 106°06'W	T42N, R77W/ Sec. 15 SE¼	No data.	Elevatorski, 1976;
25.	Unknown	43°36'N 106°01'W	T42N, R76W/ Sec. 20	0.51% uranium in sandstone and shale.	Sharp and Gibbons, 1964
26.	Unknown	43°35'N 106°00'W	T42N, R76W/ Sec. 28	Airborne anomaly in carbonaceous shale.	Sharp and Gibbons, 1964
27.	Antelope Group	43°43'N 106°06'W	T43N, R77W/ Sec. 10	0.5% uranium in Wasatch formation.	Elevatorski, 1976
28.	Snakebite Mine	43°43'N 106°06'W	T43N, R77W/ Sec. 9, 3	Anomaly in Wasatch formation.	Elevatorski, 1976

APPENDIX II (continued)

No.	Occurrence Name	Latitude/ Longitude[a]	Township, Range/ Section	Description[b]	Reference
29.	Alice-May Group	43°43'N 106°06'W	T43N, R77W/ Sec. 10 NW¼	Uranium in Wasatch formation.	Elevatorski, 1976
30.	Ty Fil Mine	43°39'N 106°04'W	T43N, R77W/ Sec. 35 SE¼	No data.	Elevatorski, 1976
31.	Anomaly 248	43°39'N 106°07'W	T43N, R77W/ Sec. 33	Anomaly in gray sandstone.	Sharp et al, 1964
32.	Pete	43°44'N 106°01'W	T43N, R76W/ Sec. 5	No data.	Elevatorski, 1976
33.	Columbus Mine	43°44'N 106°02'W	T43N, R76W/ Sec. 6	No data.	Elevatorski, 1976
34.	Anomaly 247	43°45'N 106°04'W	T44N, R77W/ Sec. 36	0.14% uranium in black paramontroseite sandstone.	Sharp et al, 1964
35.	Lucky 7	43°47'N 106°08'W	T44N, R77W/ Sec. 20 NE¼	No data.	Elevatorski, 1976
36.	K and M Ray claim	43°50'N 106°01'W	T45N, R76W/ Sec. 29	Carnotite in Wasatch formation.	Elevatorski, 1976; Sharp et al, 1964
37.	K and M Stan 7 or 8 claim	43°50'N 106°01'W	T45N, R76W/ Sec. 32	Uranium in sandstone.	Sharp et al, 1964
38.	AEC Anomaly 319	43°51'N 106°02'W	T45N, R76W/ Sec. 19 SW¼SE¼	Uranium in Wasatch formation. (MOE no. 14 sand).	Sharp et al, 1964
39.	K and M Karl No. 3 and 4	43°52'N 106°01'W	T45N, R76W/ Sec. 17	Uranium in Wasatch formation.	Sharp et al, 1964
40.	K and M Oil Co. School Lease	43°52'N 106°00'W	T45N, R76W/ Sec. 9	1.21% uranium in carbonaceous sandstone of Wasatch formation.	Sharp et al, 1964
41.	South Peak Mining	43°51'N 106°01'W	T45N, R76W/ Sec. 20	Uranium in pink and red-brown sandstone.	Elevatorski, 1976; Sharp et al, 1964
42.	A-88 Mine, Moe No. 14, Roy Channel deposit	43°51'N 106°02'W	T45N, R76W/ Sec. 19	Uranium in gray carbonaceous, calcareous sandstone.	Elevatorski, 1976; Sharp et al, 1964
43.	Craney Draw	43°53'N 106°01'W	T45N, R76W/ Sec. 7, 8, 9	Uranium at red/yellow-orange color contact in sandstone.	Elevatorski, 1976; Sharp et al, 1964
44.	P claim (Anomaly 216)	43°53'N 106°01'W	T45N, R76W/ Sec. 8	Uranium in carbonaceous sandstone.	Elevatorski, 1976; Sharp et al, 1964
45.	Anomaly 217	43°54'N 106°02'W	T45N, R76W/ Sec. 6	0.68% uranium in red-brown sandstone.	Sharp et al, 1964
46.	Forest Mine	43°54'N 106°01'W	T45N, R76W/ Sec. 5	Uranium in drab sandstone.	Elevatorski, 1976; Sharp et al, 1964
47.	Sunset Mine	43°40'N 106°02'W	T43N, R76W/ Sec. 30SE¼	No data.	Elevatorski, 1976
48.	Unknown	43°48'N 106°04'W	T44N, R77W/ Sec. 12	Airborne anomaly.	Sharp et al, 1964;
49.	Jack Christensen (Metro. Minerals and K and M Frank claims)	43°47'N 106°03'W	T44N, R77W/ Sec. 13 E½	0.56% uranium in Wasatch formation.	Elevatorski, 1976; Sharp et al, 1964
50.	Rosenberger	43°43'N 106°01'W	T43N, R76W/ Sec. 8	Airborne anomaly.	Elevatorski, 1976
51.	Anomaly 241	43°42'N 106°00'W	T43N, R76W/ Sec. 16	0.66% uranium in MnO concretions in red sandstone.	Sharp et al, 1964
52.	Anomaly 240	43°41'N 106°00'W	T43N, R76W/ Sec. 21	Uranium in manganese oxide concretions.	Sharp et al, 1964
Pine Ridge Area					
53.	Del No. 1 or Lucky Lady No. 2	43°38'N 106°13'W	T42N, R78W/ Sec. 3	Uranium in Ft. Union formation.	Elevatorski, 1976
54.	Bossy Mine	43°39'N 106°14'W	T43N, R78W/ Sec. 33	Uraninite and coffinite in Ft. Union formation. Past Production.	Elevatorski, 1976
55.	Kell-Roy claims	43°38'N 106°15'W	T42N, R78W/ Sec. 4 SW¼SW¼	Uranium in Lance formation.	Elevatorski, 1976
56.	Kell Roy Mine	43°38'N 106°14'W	T42N, R78W/ Sec. 4	Uraninite and coffinite in Ft. Union formation.	Elevatorski, 1976

APPENDIX II (continued)

No.	Occurrence Name	Latitude/ Longitude[a]	Township, Range/ Section	Description[b]	Reference
Mayoworth Area					
57.	Mayoworth	43°49'N 106°48'W	T44N, R83W/ Sec. 3 NE¼NW¼SW¼	0.32% U_3O_8 (metatyuyamunite) in Sundance formation.	Guilinger and Theobald, 1957; Wilson, 1960
58.	Mayoworth, Masek claims	43°49'N 106°48'W	T44N, R83W/ Sec. 3 NE¼NW¼SW¼	Uranium in oolitic limestone of Sundance and Chugwater formations.	Guilinger and Theobald, 1957; Elevatorski, 1976; AEC
59.	Mayoworth	43°47'N 106°47'W	T44N, R83W/ Sec. 14 NE¼	Radioactive dinosaur bones in Morrison formation.	Elevatorski, 1976; Wilson, 1960
60.	Brock Livestock Co.	43°48'N 106°48'W	T44N, R83W/ Sec. 3 SE¼SE¼SW¼	Anomaly in limestone of Sundance formation.	Guilinger and Theobald, 1955;
Kaycee Area					
61.	Desert Queen	43°43'N 106°29'W	T43N, R80W/ Sec. 8	Uranium in sand of Ft. Union formation.	Childers, 1970, Elevatorski, 1976
Lysite Mountain Area					
62.	Lysite Mountain	43°36'N 107°41'W	T42N, R90W/ Sec. 20	0.007% uranium in Tepee Trail formation.	Love, 1964
63.	Bridger Pass Road	43°34'N 107°46'W	T42N, R91W/ Sec. 34 NE¼SE¼	0.04% uranium in Tepee Trail formation.	Love, 1964
64.	Hawks Butte	43°34'N 107°37'W	T42N, R90W/ Sec. 36 SW¼NE¼NW¼	0.023% uranium in gray claystone of Aycross formation equivalent.	Love, 1964
65.	No Water Canyon	43°34'N 107°38'W	T42N, R90W/ Sec. 35	0.007% uranium in green siliceous concretions.	Love, 1964
Other Occurrences (shown on Fig. 5)					
66.	Muskrat Creek	43°03'N 107°57'W	T36N, R93W/ Sec. 34,35, 36	Groundwater anomaly in Wind Wind River formation.	Elevatorski, 1976
67.	Arapahoe Butte	43°27'N 107°44'W	T40N, R91W/ Sec. 10 NE¼	0.012% uranium in Tepee Trail formation.	Love, 1964
68.	Arapahoe Butte	43°27'N 107°44'W	T40N, R91W/ Sec. 11 NW¼NW¼NW¼	0.001% uranium in Tepee Trail formation.	Love, 1964
69.	Arapahoe Butte	43°27'N 107°44'W	T40N, R91W/ Sec. 11 SW¼N½NW¼	0.036% uranium in Tepee Trail formation.	Love, 1964
70.	Highland Channel Deposit	43°09'N 107°22'W	T37N, R88W/ Sec. 26, 27	Carnotite in Wind River formation.	Elevatorski, 1976
71.	T-Bone Mine	43°09'N 107°22'W	T37N, R88W/ Sec. 26, 27	Carnotite in Wind River formation.	Elevatorski, 1976
72.	Bridger Trail No. 1	43°09'N 107°22'W	T37N, R88W/ Sec. 26, 27	Carnotite in Wind River formation.	Elevatorski, 1976
73.	Gag claims	43°55'N 107°20'W	T46N, R87W/ Sec. 32	Uranium in calcareous, carbonaceous sandstone.	Elevatorski, 1976
74.	Allie claims	43°21'N 107°21'W	T39N, R88W/ Sec. 12, 13	Allanite.	Wilson, 1960
75.	Allie claims	43°21'N 107°20'W	T39N, R87W/ Sec. 7, 18	Allanite.	Wilson, 1960
76.	Unknown	43°00'N 106°19'W	T35N, R79W/ Sec. 15	Carnotite in Mesaverde formation. Past production.	Elevatorski, 1976
77.	Pine Ridge	43°23'N 106°08'W	T39N, R77W/ Sec. 5, 8	Tyuyamunite plus carnotite in reddish sandstone. Past production.	Elevatorski, 1976
78.	Baker No. 3, 4, 5	43°23'N 106°08'W	T39N, R77W/ Sec. 5	Uranium in Lance formation.	Elevatorski, 1976
79.	Jeri Meri Mine	43°43'N 106°50'W	T43N, R83W/ Sec. 5 SE¼	Coffinite in Tensleep formation. Past production.	Elevatorski, 1976
80.	Campbell No. 1	43°47'N 106°24'W	T44N, R79W/ Sec. 18	Uranium in sand of Wasatch formation.	Elevatorski, 1976

APPENDIX II (continued)

No.	Occurrence Name	Latitude/ Longitude[a]	Township, Range/ Section	Description[b]	Reference
81.	Anomaly 69	43°48'N 106°11'W	T44N, R78W/ Sec. 12 NW¼	0.18% uranium in Wasatch formation.	Sharp et al, 1964
82.	Unknown	43°11'N 107°01'W	T37N, R85W/ Sec. 14	Anomaly in Frontier formation.	Prescher, 1978
83.	Northline	43°59'N 106°52'W	T46N, R83W/ Sec. 6	Allanite.	Wilson, 1960
84.	L. Ramsbottom	44°00'N 106°52'W	T47N, R83W/ Sec. 31, 32	Uranium in black vein near fault-cutting granite.	Elevatorski, 1976
85.	Unknown	43°19'N 107°35'W	T39N, R90W/ Sec. 1, 12	Anomaly in the Wind River formation.	Prescher, 1978

[a] The latitudes and longitudes in this table represent the approximate center of the area defined by the township-range-section and are therefore not a precise location of the occurrence.

[b] All anomalies are radiometric, unless otherwise indicated.

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APPENDIX III

HISTOGRAMS FOR THORIUM CONCENTRATIONS IN SEDIMENT SAMPLES FROM THE ARMINTO QUADRANGLE, WYOMING

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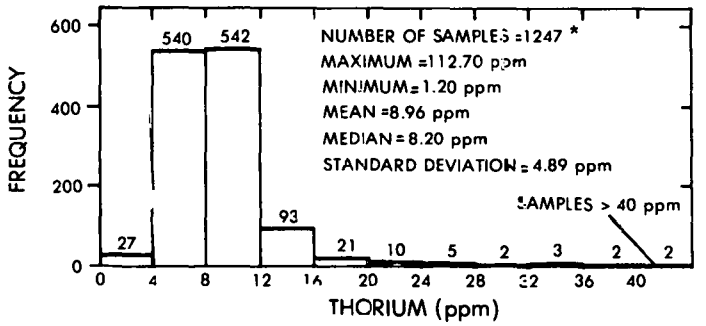
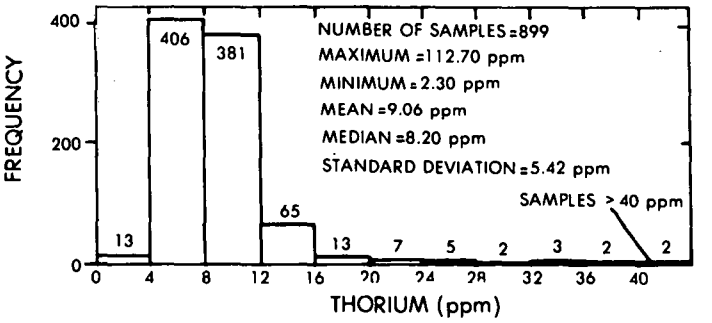
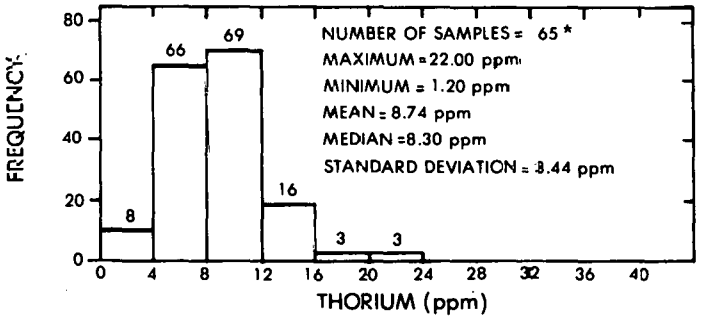
HISTOGRAMS FOR THORIUM CONCENTRATIONS IN SEDIMENT SAMPLES FROM THE ARMINTO QUADRANGLE, WYOMING



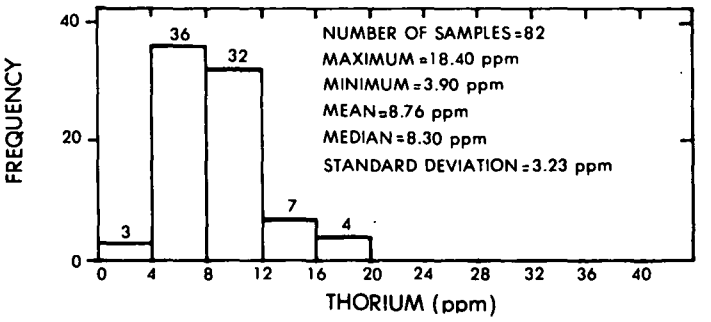
a. All sediments



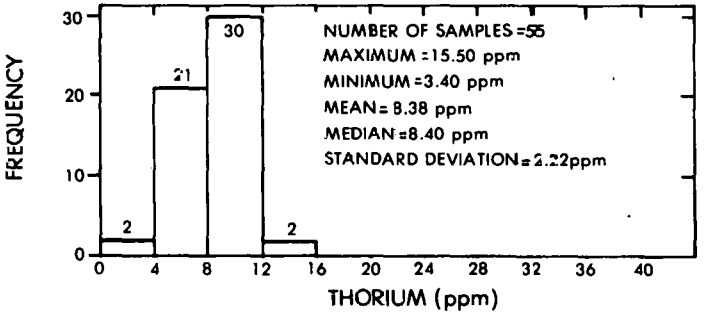
b. Dry stream sediments



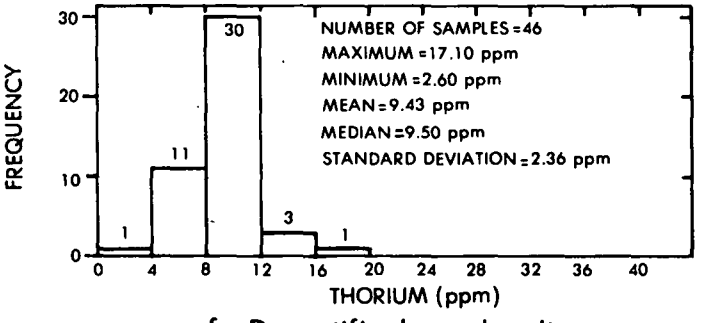
c. Spring sediments



d. Wet stream sediments



e. Wet artifical pond sediments



f. Dry artifical pond sediments

* *The number of samples in these groups is two less than the total number of sediments due to the omission from the statistics of two spring samples with thorium contents below the detection limit.*

APPENDIX IV

SUMMARY OF STANDARD LASL HSSR PROCEDURES AND CODES

APPENDIX IV-A

Summary of Standard LASL HSSR Field and Analytical Procedures

APPENDIX IV-A

SUMMARY OF STANDARD LASL HSSR FIELD AND ANALYTICAL PROCEDURES

I. FIELD PROCEDURES

Water Sampling

Water samples are taken directly from the source wherever possible, filtered through a 0.45-μ membrane filter into one each, prewashed and sealed, 41-ml reactor "rabbit" and 25-ml vial (both polyethylene), and both are then acidified to a pH of ≤ 1 with 8N, reagent-grade, HNO_3. All sample containers are doubly labeled with preprinted, adhesive labels carrying the same sample location number as that preprinted on the field data form. Springs are sampled as near to their point of emergence as possible; stream waters are taken from the fast-flowing current away from the bank; ponds (including small lakes and reservoirs) are sampled from just below the surface, near their center; and well waters are taken near the wellhead if the well is pumping or from a holding tank if not.

Sediment Sampling (Wet or Dry)

Following the collection of the water sample (if any), enough fine-grained, organic-rich, water-transported sediment to yield a composite sample of 25 g after processing (as indicated below) is taken from beneath the water level (where water exists) at three adjacent spots at each spring or stream location. The sediment is put into a new, clean, and originally sealed, rip-top polyethylene bag which is then properly double-labeled for delivery (with the field data form) to the contractor's drying facility. After drying at <100°C, each sample is sieved through a 100-mesh stainless steel sieve. The minus 100-mesh fraction is put into a prewashed, 25-ml polyethylene vial which is then appropriately double-labeled (using labels from the data form) and sealed for shipment to the LASL.

Field Measurements

The air temperature, read in the shade at the time of sampling, is recorded to the nearest whole degree Celsius. The water temperature is measured in the source water and recorded to the nearest one-half degree Celsius. The pH of the source water is measured with a calibrated, portable pH meter and recorded to the nearest one-tenth of a pH unit. The conductivity (in μmho/cm) of the source water is measured with a calibrated, temperature-compensated (25°C), portable meter. The scintillometer readings are measured with a portable scintillometer on a flat, dry spot within a few meters of the sample location at spring or stream sites. Two readings are recorded, the first with a radiation shield in place (blocking out ground radiation) and the second with the shield removed. The readings (in counts/s) are converted by computer, using measured calibration factors, to the equivalent uranium (eU) value in the data listings. Special measurements such as dissolved oxygen are made with a calibrated, commercially available, portable meter and probe. In lakes, the water temperature, pH, conductivity, and (special) dissolved oxygen are usually all measured with a single, digital-readout unit, utilizing a parameter selector switch and a composite probe that is lowered from the sampling helicopter to just below the water's surface. Care is taken to see that these measurements are made before the bottom sediment is disturbed.

Field Observations

These represent the best judgment of the field sampler at a location and include general descriptions of the local bedrock, sediment, water, vegetation, terrain, weather, possible contaminants, and well configuration, if applicable. Because these observations are subjective and made quickly in the field, they should be held subordinate to formally documented information such as that provided by published topographic or geologic maps, etc.

Sample Location Verification

Each contractor is supplied field maps with the desired sample types and general locations symbolically premarked at the LASL. In the lower states, the field maps are generally 1:24 000-scale or 1:62 500-scale USGS topographic maps; in Alaska, they are normally 1:250 000-scale NTMS quadrangle maps, also available from the USGS. As each location is sampled, a unique sample location number, preprinted on transparent adhesive labels (also used for labeling the samples) that are provided with each identically numbered field data form, is placed on top of the precisely marked point representing the sample site on the field map. When a desired sample as specified cannot be obtained, an identical or alternate sample type (as near as possible to the original one) is picked, and the new sample type and/or location is/are marked on the field map and properly labeled as above. The latitude and longitude of each location is then computed by the sampling contractor within 48 h of taking each sample. Every location is later checked (and corrected if necessary) at the LASL by digitizing the sample locations on each map and comparing them to those computed in the field. The latitudes and/or longitudes are corrected if the field-computed locations are displaced by more than 300 m from the locations marked on the field maps. A final visual check of sample locations is made by overlaying computer-produced location plots on the field maps used. The computer program for generating the Universal Transverse Mercator map projection overlays is described by Cheadle (1977).

II. ANALYTICAL PROCEDURES

Uranium Determination in Water Samples by Fluorometry

Under normal procedures, the 25-ml water vial is vigorously shaken and duplicate 0.20-ml aliquots of water are transferred to platinum dishes. The aliquots are evaporated under heat lamps and a 0.4-g pellet of 2% LiF-98% NaF flux is added to each dish. The pellets are first preheated under lamps, then fused over special propane burners. After each pellet/sample cools, it is excited with ultraviolet radiation in the fluorometer and the fluorescence is read and recorded. The uranium concentrations are determined by using a computer routine which compares the fluorescence from each pellet with those from other pellets, run at the same time, containing uranium-standard solutions and blanks. The uranium concentration of the sample, as given in the appropriate data listings, is then the average obtained from the duplicate aliquots. The lower limit of detection for each aliquot by the normal procedure is 0.2 ppb; this is the lower detection limit for the samples from the 1976 sampling areas (Fig. 1). Samples below 0.2 ppb were arbitrarily assigned a value of 0.1 ppb in the data listing of Appendix I-A. For the area sampled in 1977 (Fig. 1), samples below 0.2 ppb uranium were reanalyzed using new duplicate aliquots that have been put through an additional evaporative concentration step that provides a 10X concentration factor. This additional procedure, using the same

basic fluorometric method, reduces the lower limit of detection of uranium in natural waters to 0.02 ppb. When a uranium concentration lower than 0.02 ppb is found in an aliquot, it is arbitrarily assigned a value of 0.01 ppb. If the uranium value given in the data listings is 0.01 ppb, both aliquots had uranium concentrations below the detection limit. Whether concentrated or not (which can be determined from the uranium level in the listing), the fluorometric analytical precision is ~30% at the lower detection limit, ~20% at one order of magnitude above this, and ~10% at two or more orders of magnitude above the lower detection limit. The basic fluorometric method used is described in detail by Hues et al (1977).

Uranium Determination in Water Samples by Delayed-Neutron Counting (DNC)

In general, only waters with >40 ppb uranium (as determined by fluorometry at the LASL, where this is the upper limit of detection without recalibration) or those with impurities that cause interference with uranium-induced fluorescence are analyzed using DNC. Samples are received in the 25-ml vials (or 41-ml reactor rabbits used in some of the previous work) and are analyzed in clean, labeled, 25-ml vials. Each water sample is weighed, and its weight (less that of the vial) and location number are recorded. The vials are then loaded into a 25-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked and four standards are run for calibration. The transfer clip is installed on the pneumatic feed line and the samples are cycled through the system (typically, a 60-s irradiation, 30-s delay, and 60-s count cycle is used). The uranium concentration is automatically measured, converted to ppb, and entered into a computer data base. The lower detection limit for uranium in water by DNC as used at the LASL is 0.5 ppb. The statistical error of this method is ~20% at a uranium concentration of 1 ppb, ~6% at 10 ppb, and <4% at 40 ppb or greater. Statistical treatments of uranium concentrations obtained from the same suites of samples analyzed both by fluorometry and DNC have shown that there is no significant difference between the results of the two analytical methods as used at the LASL. This analytical comparability is rechecked periodically.

Elemental Determinations in Water Samples by Plasma-Source Emission Spectrography

The concentrations of Ca, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Ti, and Zn in water samples are determined at the LASL by inductively coupled plasma-source emission spectrography. To allow complete system equilibration, the inductively coupled plasma and photomultiplier tubes are powered for at least 1 h prior to making any analyses. Argon coolant and sample carrier gas lines are adjusted and calibrated using a zinc standard. The sample solution is taken up from its container, nebulized, and injected into the plasma source at a rate of 9.2×10^{-9} m^3/s. After the computer determines that the photomultiplier tubes have stabilized, a 15-s exposure of the resultant spectrum is made on a direct-reading spectrograph. The resulting signals are read directly into a computer and converted automatically to give the elemental concentrations. Corrections for interfering elements are made simultaneously by computer. When high (off-scale) results are obtained, the computer calls for the insertion of a filter between the plasma source and the spectrograph, repeats the readings, and then converts and stores the corrected elemental concentrations. The lower analytical detection limits generally achieved are (in ppb): Ca (20), Co (55), Cr (25), Cu (4), Fe (25), Mg (2), Mn (3), Mo (25), Ni (25), Pb (200), Ti (4), and Zn (50). When an analysis results in an elemental concentration that is below the detection limit, a minus sign preceding the value

of the detection limit for that element is inserted in the data listings. Analytical precision for the elements as determined in water by this method is ~50% at the lower detection limit, improving to ~10% one order of magnitude above the lower detection limit and to ~5% two orders of magnitude above the detection limit. Analyses for Pb and Mo are subject to interference from Ca such that apparent concentrations of about 10 ppb Pb and 4.5 ppb Mo are produced for each 1000 ppb Ca. The measured Ca concentrations are used to correct for these interferences; however, the corrections are generally large and subject to some temporal variation. Therefore, the precisions for Pb and Mo are much lower for those water samples containing large concentrations of Ca than those given above.

Uranium Determination in Sediment Samples by DNC

All sediment samples are analyzed for total uranium by DNC. A split of each sample (dried and sieved as described) is transferred to a clean 4-ml rabbit, weighed, and its weight (less that of the rabbit) recorded along with the appropriate location number. These rabbits are then loaded into a 50-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked, and standards are run for calibration. The transfer clip is installed and the samples are cycled through the system (typically, a 20-s irradiation, 10-s delay, and 30-s count cycle is used). The uranium concentration is automatically measured, converted to ppm, and entered into the data base. The lower limit of detection of this method is 0.01 ppm uranium, far below the range of uranium concentrations in natural sediment samples. Above the 1 ppm level, the uranium values in sediment measured by DNC at the LASL have a one-sigma error of less than 4%. The specially designed delayed-neutron detectors, built by the LASL and used for these analyses, are described by Balestrini et al (1976).

Elemental Determinations in Sediment Samples by Energy Dispersive X-Ray Fluorescence

A computer-controlled, energy-dispersive x-ray fluorescence system is used to determine Ag, Bi, Cd, Cu, Nb, Ni, Pb, Sn, and W in sediments. The system consists of an automatic 20-position sample changer, a lithium-drifted silicon detector, a pulsed molybdenum transmission-target x-ray tube, a multichannel analyzer, and a minicomputer. The sediment samples are prepared for analysis by grinding 6 g of each minus 100-mesh sample to a minus 325-mesh powder. A computer program positions the 6-g samples in the x-ray beam, unfolds over- lapping peaks, determines peak intensities for each element, and calculates the ratio of the intensity of each peak to that of the molybdenum K_α Compton peak. Concentrations of each element are then calculated using equations obtained by analyzing prepared standards. Detection limits are: 5 ppm for Ag, Bi, Cd, and Pb; 10 ppm for Cu and Sn; 15 ppm for Ni and W; and 20 ppm for Nb. When an analysis results in an elemental concentration that is below the detection limit, a minus sign preceding the value of the detection limit for that element is inserted in the data listings. The relative standard deviation is 10% or less at the 100-ppm level and 20% or less at the 20-ppm level. Details of the method and equipment used are described by Hansel and Martell (1977).

Beryllium and Lithium Determinations in Sediment Samples by Arc-Source Emission Spectrography

A 5-mg portion of the -325-mesh sample that has already been analyzed by x-ray fluorescence is mixed with 10 mg of a buffer consisting of one part

graphite and one part SiO_2. The sample/buffer mixture is placed into a graphite electrode that is used as the anode of a dc arc having a short circuit current of 6A for 10 s, then 17A for 50 s. Photomultiplier tubes in a direct-reading spectrograph are used to measure the second order 313.0-nm line of Be, the first order 670.7- and 610.3-nm lines of Li, the background spectra near these lines, and the 327.6-nm line of V. The 670.7-nm Li line is used for Li concentrations up to 10 ppm and the 610.3-nm line of Li is used for concentrations above 10 ppm. The V line is used to correct the Be value when V is present. The signals from the photomultiplier tubes are read by a digital voltmeter and are processed by a desk-top calculator. The results are simultaneously printed on paper and recorded on cassette tape for later transmission to a computer data file. The elemental concentrations of Be and Li are determined from the spectra, based on the results of previously run calibration standards. The lower detection limit for both elements is 1 ppm. When an analysis results in an elemental concentration that is below the detection limit, a minus sign preceding the value of the detection limit for that element is inserted in the data listings. Precision at the lower detection limit is ~50% for both elements and improves to ~25% at one order of magnitude above the lower limit.

Elemental Determinations in Sediment Samples by Neutron Activation Analysis (NAA)

Immediately upon completion of the uranium analysis of sediment samples by DNC, the same 4-ml sediment splits are entered into the NAA sequence. The concentrations of 31 additional elements are determined by this procedure. The full DNC/NAA timing sequence used at the LASL for each sediment sample is: 20-s irradiation, 10-s delay, 30-s DNC analysis, 20-min delay, 500-s γ-ray count for short-lived radionuclides, 96-s re-irradiation, 14-day delay, and finally a 1000-s γ-ray count for long-lived radionuclides. The γ-ray counting is done by lead-shielded Ge(Li) detectors; the 4096-channel γ-ray data are recorded and subsequently analyzed for each individual element by computer. The analytical data for each sample are automatically printed out along with the associated statistical errors. The lower detection limits for the various elements as reflected by the "less than" values (denoted by a minus sign in front of a concentration) in the data listings are the values for the individual elements at which the statistical counting error approaches 50%. Current "typical" lower detection limits for the elements determined by NAA are reported in Nunes and Weaver (1978); however, the actual detection limit for an element depends upon the composition of the sample, and this limit may be higher or lower than the typical value. At concentration values one order of magnitude above the lower detection limits, the relative errors are generally less than 10%.

APPENDIX IV-B

Explanation of Codes Used in Appendix I

APPENDIX IV-B

EXPLANATION OF CODES USED

DOE SAMPLE NUMBER

STATE: A two-digit Federal Information Processing Standards (FIPS) code that designates the state from which each sample came. For the states being sampled by the LASL, the code numbers are:

Alaska = 02	Montana = 30	South Dakota = 46
Arizona = 04	Nebraska = 31	Texas = 48
Colorado = 08	New Mexico = 35	Utah = 49
Idaho = 16	North Dakota = 38	Wyoming = 56
Kansas = 20	Oklahoma = 40	

LATITUDE AND LONGITUDE: Sample location, in degrees and decimal degrees to four places. Although generally much better, locational accuracy cannot be guaranteed closer than about 300 m (1000 ft).

DOE LAB: A Department of Energy (DOE) one-digit identifier designating the DOE laboratory responsible for taking the samples and data shown in the listings, as well as providing the analyses of the uranium and other elemental concentrations, if any. The LASL is designated by the numeral 2.

SAMPLE TYPE: A two-digit identifier which specifically designates the pertinent properties defining the sample type to which the listed data relate. For explanation of the code used, refer to the attached "Key to Sample Types," in section C of this appendix.

REPLICATE: A three-digit sequential number assigned to indicate a multiple sample of a single sample type from a single location. The largest number in use indicates the most recent sample taken and there will always be all smaller sequential numbers representing earlier samples back to 0, which is the initial sample from any given location. Except in the case of special studies, there will be no replicate samples and this entry will therefore be a single zero.

LASL SAMPLE LOCATION NUMBER AND FIELD DATA

LASL SAMPLE LOCATION NUMBER: A unique six-place alphanumeric designator permanently assigned by the LASL to every location sampled. For internal use, these numbers are assigned in blocks to the various areas individually treated and reported upon, and therefore serve to generally locate the samples within various areas for which the LASL is responsible as follows.

Location Numbers		State
N00 001 through N99 999	=	Principally New Mexico
C00 001 through C99 999	=	Principally Colorado
W00 001 through W99 999	=	Principally Wyoming
M00 001 through M99 999	=	Principally Montana
A00 001 and above	=	Alaska only
L00 001 and above	=	Areas beyond the western boundary of LASL's region as established by DOE in 1977.
Ø00 001 and above	=	Areas beyond the eastern boundary of LASL's region as established by DOE in 1977.

TIME SAMPLED: The DATE the sample was taken, in terms of the number of the MONTH, followed by the DAY and finally the YEAR, separated by slashes, and then the TIME it was taken on that date to the nearest whole HOUR on a 24-hour clock.

AIR TEMPERATURE: The temperature measured in the shade at the time of sampling, to the nearest whole degree Celsius (°C).

WATER TEMPERATURE: The temperature measured in the sample water (in situ whenever possible) at the time of sampling, to the nearest one-half of a degree Celsius (0.5°C).

COMMENTS: A "C" in this column indicates that some secondary comment not included in the listing was recorded at the sample location. This information will be used by the LASL in evaluating the data, and if appropriate, it will be mentioned in the final report.

SPECIAL MEASUREMENTS: An "S" in this column indicates that one or more field measurements in addition to those listed were made at the sample location. A description of any special parameters measured and the measured value at each sample location will be included in the final HSSR survey report on the area.

pH: The pH, to the nearest one-tenth (0.1) of a pH unit, measured in the water at the sample location at the time of sampling.

CONDUCTIVITY: The conductivity, in μmho/cm, measured in the water at the sample location at the time of sampling.

SCINTILLOMETER: The equivalent uranium (eU), in ppm, as measured on a flat ground surface within 10 m of the sample location using a scintillometer fitted with a differential gamma sampler (DGS). The effect of the DGS is to introduce a fixed geometry into the measurement and remove the background.

ROCK TYPE: The single digit in this column provides a general description of the dominant lithologic regime at or near the sample location, as given below.

1 = Sedimentary	3 = Igneous
2 = Metamorphic	4 = Unknown

ROCK COLOR: The single digit in this column provides an indication of the observed dominant color of local bedrock exposures at or near the sample location, as given below.

1 = White/Buff	4 = Pink/Red	7 = Gray
2 = Yellow	5 = Green	8 = Black
3 = Orange	6 = Brown	9 = Other

SEDIMENT TYPE: The single digit in this column provides a subjective evaluation of the dominant sediment type at the sample location, as given below.

1 = Boulders	4 = Sand	7 = Other
2 = Cobbles	5 = Mud	
3 = Gravel	6 = Muck	

SEDIMENT COLOR: The single digit in this column indicates the observed dominant color of the bottom sediment (stream channel, lake bed, etc.) at the sample location at the time of sampling, as given below.

1 = White/Buff	4 = Pink/Red	7 = Gray
2 = Yellow	5 = Green	8 = Black
3 = Orange	6 = Brown	9 = Other

WATER FLOW: The single digit in this column provides a subjective evaluation of the water movement at the sample location at the time of sampling, as given below.

1 = Stagnant	3 = Moderate	5 = Torrent
2 = Slow	4 = Fast	

WATER LEVEL: The single digit in this column provides a subjective estimate of water quantity at the time of sampling, relative to its usual condition at the sample location, as given below.

1 = Dry	3 = Normal	5 = Flood
2 = Low	4 = High	

WATER COLOR: The single digit in this column provides a subjective evaluation of suspended load in the sample water, as given below.

1 = Clear	3 = Cloudy	5 = Algal
2 = Murky	4 = Muddy	6 = Other

STREAM CHANNEL: The single digit here gives a subjective evaluation of stream channel character at the sample location at the time of sampling, as given below.

1 = Depositing	2 = Eroding	3 = Unknown

VEGETATION TYPE: The single digit in this column provides a subjective evaluation of the dominant plant type in the vicinity of the sample location, as given below.

1 = Conifers	4 = Grass	7 = Other
2 = Deciduous	5 = Moss	
3 = Brush	6 = Marsh	

VEGETATION DENSITY: The single digit in this column provides a subjective estimate of the amount of plant cover in the vicinity of the sample location, as given below.

1 = Barren	3 = Moderate	5 = Very Dense
2 = Sparse	4 = Dense	

RELIEF: The single digit in this column provides a subjective evaluation of the topography within a few hundred meters of the sample location, as given below.

1 = Flat	3 = Gentle (15-60 m)	5 = High (>300 m)
2 = Low (<15 m)	4 = Moderate (60-300 m)	6 = Other

WEATHER: The single digit in this column gives the observed climatic condition at the sample location at the time of sampling, as given below.

1 = Clear	3 = Overcast	5 = Snowy
2 = Partly cloudy	4 = Rainy	6 = Other

OWNERSHIP: Not used.

CONTAMINANTS: The single digit here indicates known or suspected local factors likely to influence analytical results, as given below.

1 = None	4 = Industry	7 = Urban
2 = Mining	5 = Sewage	8 = Recreation
3 = Agriculture	6 = Power generation	9 = Other

WELL TYPE: If a well water sample, the single digit in this column provides a general description of the type of well from which the sample was taken, as given below.

1 = Windmill-stock	4 = Suction pump	7 = Hand bail
2 = Windmill-domestic	5 = Jet pump	8 = Unknown
3 = Submersible pump	6 = Large turbine	9 = Other

WELL DIAMETER: When shown, the one or two digits in this column give the measured or estimated inside diameter, in inches, of the well casing from which the water sample came.

WELL DEPTH: When shown, the one, two, or three digits in this column give the total drilled depth from the surface, in feet, of the well from which the sample came. Three 9s in this column indicates a well depth greater than 1000 ft.

WATER DEPTH: When shown, the one, two, or three digits in this column give the known depth, in feet, from the surface to the standing water in the well. A -1 in this column indicates a flowing artesian well.

URANIUM CONCENTRATION: The value given in this column is the analytically derived value of the total uranium concentration found in the water sample (in ppb) or in the sediment sample (in ppm). Those uranium concentrations in water that are shown with an asterisk were measured using the delayed-neutron counting method, while those without an asterisk were determined fluorometrically. The uranium analyses in water samples as determined by both of these methods at the LASL are directly comparable, as noted in section A of this appendix.

REMAINING ENTRIES: The data presented in the remaining entries of the listings utilize no codes as such and are described in the respective column headings. However, there are four conventions used throughout the listings of elemental concentrations: a) all concentrations in waters are reported in ppb; b) all concentrations in sediments are reported in ppm; c) concentrations "less than" the lower detection limit are denoted by a minus sign before this limit for the specific sample (except for fluorometrically determined uranium in waters, the convention for which is described in section A of this appendix); and d) a blank space in the data listings for any elemental concentration signifies that no analytical result was obtained for that element.

APPENDIX IV-C

Key to Sample Types Listed in Appendix I

APPENDIX IV-C

KEY TO SAMPLE TYPES

This numerical key provides the necessary tie between the specific type or form of each sample taken and each individual suite of field and laboratory data to which the sample relates. It defines the various sample types collected by the LASL in the DOE HSSR for uranium.

The two-digit key number assigned to each sample type designates three distinct properties of the samples taken. These properties are: (a) The general sample source (spring, stream, dry stream, etc.); (b) The sample medium (water or sediment); and (c) The treatment given the sample in the field or laboratory prior to its analysis by the LASL.

The key numbers are inserted in the sample type columns of the specially formatted DOE sample numbering system to positively identify the sample type for all LASL sample data submitted.

KEY NO. — SOURCE / MEDIUM / TREATMENT

01 - Spring water sample untreated.

02 - Stream water sample untreated.

03 - Well water sample untreated.

04 - Natural pond water sample untreated.

05 - Artificial pond water sample untreated.

06 - Spring water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

07 - Stream water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

08 - Well water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

09 - Natural pond water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

10 - Artificial pond water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

11 - Wet spring sediment sample dried at ≤100°C and sieved to -100 mesh through stainless steel sieves.

12 - Wet stream sediment sample dried at ≤100°C and sieved to -100 mesh through stainless steel sieves.

13 - Wet natural pond sediment sample dried at ≤100°C and sieved to -100 mesh through stainless steel sieves.

14 - Wet artificial pond sediment sample dried at ≤100°C and sieved to -100 mesh through stainless steel sieves.

15 - Dry stream sediment sample dried at ≤100°C (if necessary) and sieved to -100 mesh through stainless steel sieves.

27 - Stream water sample acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

29 - Natural pond or lake water sample acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

96 - Dry natural pond sediment sample dried at ≤100°C (if necessary) and sieved to -100 mesh through stainless steel sieves.

97 - Dry artificial pond sediment sample dried at ≤100°C (if necessary) and sieved to -100 mesh through stainless steel sieves.

98 - Other water
99 - Other sediment

These key numbers are to be used only for water (98) or sediment (99) samples coming from a special source and/or given a special treatment not described for any of the types of samples above. When used in the listings published herein, the source and treatment of the samples so designated are described in the text.

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LA-7510-MS

PLATE I

108° 00′ W
107°45′ W
107°30′ W
107°15′ W
107° W
106°45′ W
106°30′ W
106°15′ W
106° 00′ W
44° 00′ N
43°45′ N
43°30′ N
43°15′ N
43° 00′ N

The LASL sample location numbers above are the same as those used in APPENDIX I except the leading two alphanumeric characters have been dropped.

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

SAMPLE LOCATION OVERLAY FOR THE ARMINTO NTMS QUADRANGLE, WYOMING

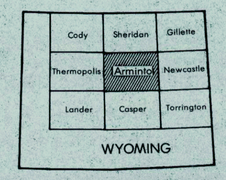

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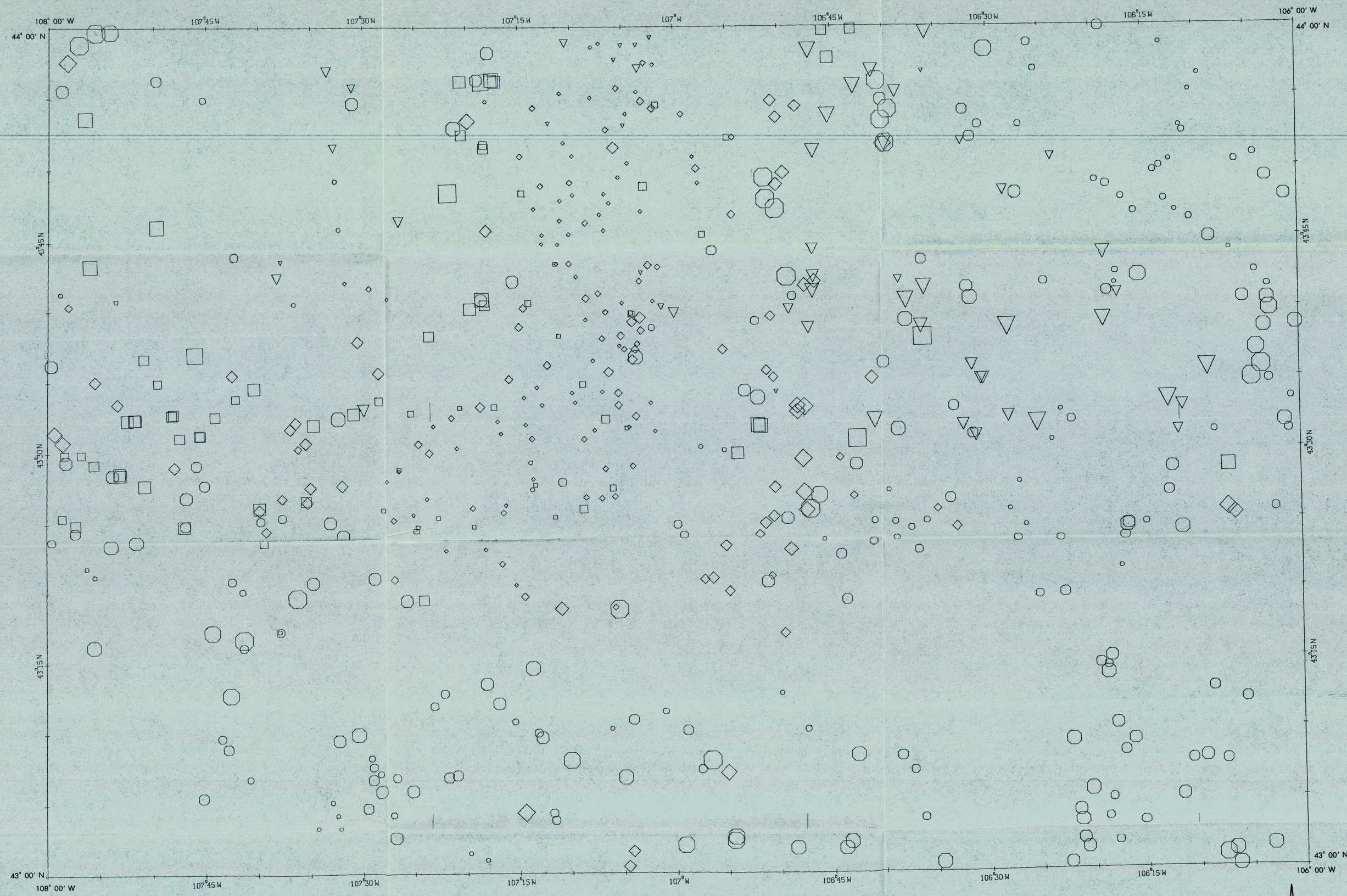
PLATE II



SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

N

LEGEND

SYMBOLS	CONCENTRATIONS(ppb)	
◇ SPRING	◇	0.00– .20
□ STREAM	◇	.21– .50
○ WELL	◇	.51– 1.00
▽ ARTIFICIAL LAKE OR POND	◇	1.01– 2.00
	◇	2.01– 5.00
	◇	5.01– 10.00
	◇	10.01– 20.00
	◇	> 20.00

URANIUM CONCENTRATIONS (ppb) IN WATERS
OVERLAY TO THE
ARMINTO NTMS QUADRANGLE, WYOMING

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PLATE III

108° 00′ W
107°45 W
107°30 W
107°15 W
107° W
106°45 W
106°30 W
106°15 W
106° 00′ W
44° 00′ N
43°45 N
43°30 N
43°15 N
43° 00′ N

LEGEND

SYMBOLS	CONDUCTIVITIES (μmho/cm)
◇ SPRING	0.00– 50.00
□ STREAM	50.01– 100.00
○ WELL	100.01– 200.00
▽ ARTIFICIAL LAKE OR POND	200.01– 500.00
	500.01–1000.00
	1000.01–2000.00
	2000.01–5000.00
	> 5000.00

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

N

CONDUCTIVITIES (μmho/cm) IN WATERS
OVERLAY TO THE
ARMINTO NTMS QUADRANGLE, WYOMING

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PLATE IV

108° 00′ W 107°45 W 107°30 W 107°15 W 107°W 106°45 W 106°30 W 106°15 W 106° 00′ W

44° 00′ N

43°45 N

43°30 N

43°15 N

43° 00′ N

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

N

LEGEND

SYMBOLS	CONCENTRATIONS(ppm)
SPRING	0.0– 2.0
WET STREAM	2.1– 3.0
WET ARTIFICIAL LAKE OR POND	3.1– 4.0
DRY STREAM	4.1– 5.0
DRY ARTIFICIAL LAKE OR POND	5.1– 6.0
	6.1– 7.0
	7.1– 10.0
	> 10.0

URANIUM CONCENTRATIONS (ppm) IN SEDIMENTS
OVERLAY TO THE
ARMINTO NTMS QUADRANGLE, WYOMING

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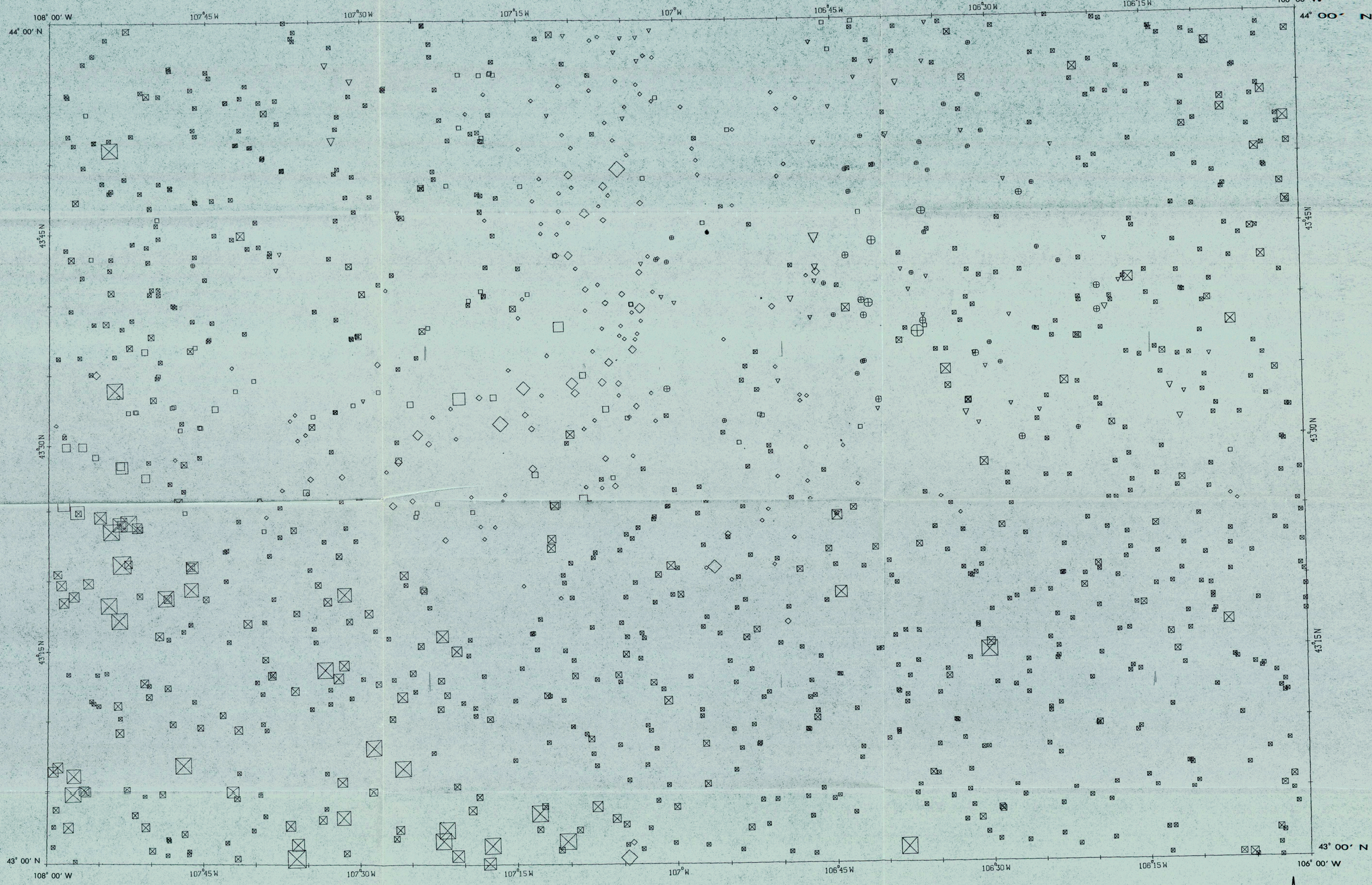
PLATE V



SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

LEGEND

SYMBOLS	CONCENTRATIONS(ppm)
◇ SPRING	0.0– 10.0
□ WET STREAM	10.1– 12.0
▽ WET ARTIFICIAL LAKE OR POND	12.1– 14.0
⊠ DRY STREAM	14.1– 16.0
⊕ DRY ARTIFICIAL LAKE OR POND	16.1– 18.0
	18.1– 20.0
	20.1– 40.0
	> 40.0

THORIUM CONCENTRATIONS (ppm) IN SEDIMENTS OVERLAY TO THE ARMINTO NTMS QUADRANGLE, WYOMING

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051-075	5.25	176-200	9.00	301-325	11.75	426-450	14.00	551-575	16.25
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