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Informal Report

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Uranium Hydrogeochemical and Stream Sediment Reconnaissance of the Dalhart NTMS Quadrangle, New Mexico/Texas/Oklahoma, Including Concentrations of Forty-Two Additional Elements

University of California

U. S. DEPARTMENT OF ENERGY
Assistant Secretary for Resource Applications
Grand Junction Office, Colorado

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Informal Report

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Uranium Hydrogeochemical and Stream Sediment Reconnaissance of the Dalhart NTMS Quadrangle, New Mexico/Texas/Oklahoma, Including Concentrations of Forty-Two Additional Elements

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URANIUM HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE OF THE DALHART NTMS QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA, INCLUDING CONCENTRATIONS OF FORTY-TWO ADDITIONAL ELEMENTS

by

Terrance L. Morgan

ABSTRACT

As a part of the US Department of Energy's National Uranium Resource Evaluation (NURE), the Los Alamos Scientific Laboratory (LASL) conducted a hydrogeochemical and stream sediment reconnaissance (HSSR) for uranium in the Dalhart National Topographic Map Series (NTMS) quadrangle of northeastern New Mexico, northwestern Texas, and western Oklahoma. Totals of 1583 water samples and 503 sediment samples were collected from 2028 locations within the 20 000-km^2 area of the quadrangle at an average density of one location per 9.86 km^2. Water samples were collected from wells, springs, and streams and were analyzed for uranium. Sediment samples were collected from streams and springs and were analyzed for uranium, thorium, and 41 additional elements. All field and analytical data are listed in the appendixes of this report. Discussion is limited to anomalous samples, which are considered to be those containing over 20 parts per billion (ppb) uranium for waters and over 5 parts per million (ppm) uranium for sediments.

Uranium concentrations in water samples range from below the detection limit of 0.2 ppb to 1457.65 ppb and average 7.41 ppb. Most of the seventy anomalous water samples (4.4% of all water samples) are grouped spatially into five clusters or areas of interest. Samples in three of the clusters were collected along the north edge of the quadrangle where Mesozoic strata are exposed. The other two clusters are from the central and southern portions where the Quaternary Ogallala formation is exposed.

Sediment samples from the quadrangle have uranium concentrations that range from 0.90 ppm to 27.20 ppm and average 3.27 ppm. Fourteen samples (2.8% of all sediment samples) contain over 5 ppm uranium and are considered anomalous. The five samples with the highest concentrations occur where downcutting streams expose Cretaceous units beneath the Quaternary surficial deposits. The remaining anomalous sediment samples were collected from scattered locations and do not indicate any single formation or unit as a potential source for the anomalous concentrations.

I. INTRODUCTION

This report contains uranium and other elemental data resulting from the Hydrogeochemical and Stream Sediment Reconnaissance (HSSR) of the Dalhart National Topographic Map Series (NTMS) quadrangle, New Mexico/Texas/Oklahoma, 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.

Other HSSR reports that have been released for adjacent quadrangles include the Raton quadrangle to the west (Morgan and Broxton, 1978), the La Junta quadrangle to the north (Purson and Warren, 1979), and the Trinidad quadrangle to the northwest (Morris et al, 1978; Shannon et al, 1980).

Totals of 1583 water and 503 sediment samples were collected from 2028 locations within the Dalhart NTMS quadrangle. Water samples were collected from wells, springs, and streams; sediment samples were collected from streams and springs. Samples from the New Mexico portion of the quadrangle were collected by contractors during September and early October, 1976, and from the remaining portion during June, 1978.

This report contains results of analyses for uranium 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. Histograms showing the distribution of thorium concentrations in sediment samples are given in Appendix II. Standardized field, analytical, and data base management procedures were followed in all phases of the study. These procedures are described briefly in Appendix III-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. A supplemental report that includes results of analyses for several elements in the water samples from the quadrangle is planned to be released in the future.

Only the analytical results and statistical summaries for uranium are treated herein. Plates included in the rear pocket consist of a geologic map of the Dalhart quadrangle (Plate I) and overlays for sample locations (Plate II), uranium concentrations in waters (Plate III), conductivities in waters (Plate IV), uranium concentrations in sediments (Plate V), and thorium concentrations in sediments (Plate VI). All overlays are 1:250 000 scale for use in conjunction with the Dalhart NTMS quadrangle map (USGS, 1954).

II. DESCRIPTION OF STUDY AREA

Location and Geographic Setting

The Dalhart quadrangle encompasses an area of 20 000 km^2 in the northeastern corner of New Mexico, the western end of the Oklahoma Panhandle, and the northwestern corner of Texas (Fig. 1). A small strip of southeastern

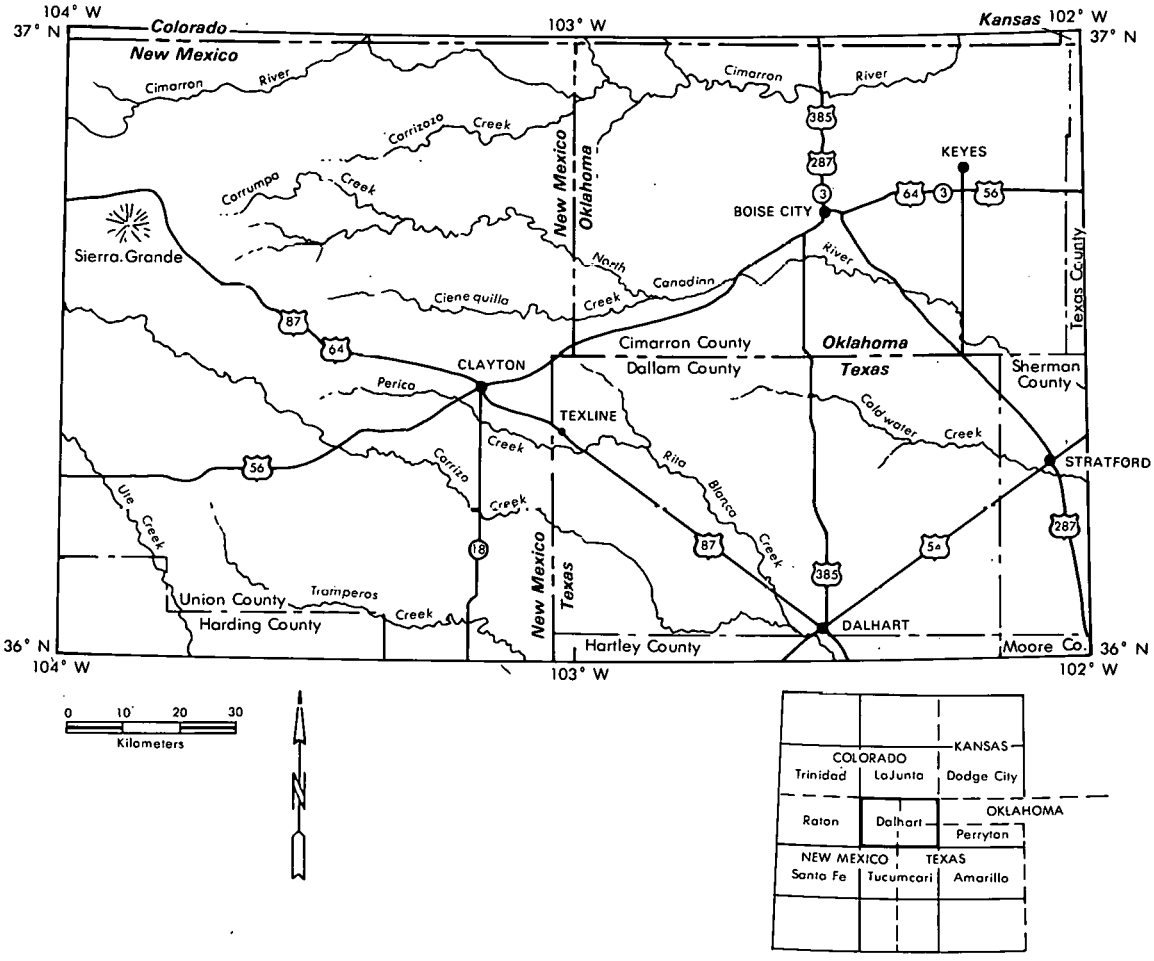


Fig. 1. Location map for the Dalhart NTMS quadrangle, New Mexico/Texas/Oklahoma.

Colorado and a small part of the southwestern corner of Kansas are within the area. The Dalhart quadrangle includes most of Union County, New Mexico, and a small portion of Harding County, New Mexico. In Oklahoma, all of Cimarron County and a small strip of western Texas County are within the quadrangle. All of Dallam County, Texas, and portions of Hartley, Moore, and Sherman Counties, Texas, are included. Chief population centers (1970 census) are Dalhart, Texas (population 5705), Clayton, New Mexico (population 2931), and Boise City, Oklahoma (population 1993). Principal occupations are ranching and agriculture.

The quadrangle is within the High Plains section and the Raton section of the Great Plains physiographic province (Hunt, 1974) and lies at elevations between 1060 m on the east side and 2100 m on the west. The highest feature (2658 m) is Sierra Grande, an extinct volcano near the western side of the area. The country is characterized by brush- and grass-covered rolling plains locally cut by steep-walled gullies or washes. Volcanic cinder cones and basalt-capped mesas are common in the western portion of the quadrangle.

The semi-arid climate is very warm in summer and very cold in winter. Annual precipitation of about 430 mm (Cooper and Davis, 1967) falls mostly between May and August during thundershowers (Sapik and Goemaat, 1973). General weather conditions at the time of sampling were recorded with the field data and are included in the data listing of Appendix I.

III. GEOLOGY

Stratigraphy

A stratigraphic column and geologic map of units occurring in the Dalhart quadrangle (Fugro, Inc., 1978) are given on Plate I. Subsurface stratigraphy (pre-Mesozoic units) is discussed by Foster (1956; 1959). The oldest exposed rocks are Triassic continental "red beds" of the Dockum group (Stovall, 1943; Baldwin and Muehlberger, 1959) that crop out in the Cimarron River drainage in the western part of the quadrangle. Jurassic units (Exeter sandstone and Morrison formation) and Cretaceous units (Purgatoire formation, Dakota formation, and the Colorado group) generally are exposed only in the northwestern corner and along the northern boundary of the quadrangle (Plate I). The Tertiary Ogallala formation and Quaternary deposits are the principal rock units cropping out throughout most of the quadrangle.

The Ogallala is absent in many places in the western part of the quadrangle due to removal by erosion, but is up to 30 m thick in the eastern part. This formation often rests on units as old as Triassic due to pre-Ogallala erosion. The Ogallala was deposited on an east-sloping, stream-dissected surface and consists of discontinuous beds of claystones, siltstones, sandstones, and conglomerates that are partly or wholly cemented by calcium carbonate (Schoff, 1939; 1943). Caliche, as much as a few meters thick, is very common in the Ogallala formation.

Igneous Rocks

Volcanic rocks cover large areas in the western half of the quadrangle. Basalts are the dominant lithologic type and are grouped into three eruptive periods: the Raton basalts (Pleistocene), the Clayton basalts (Pleistocene to Recent), and the Capulin basalts (Recent). Other extrusive igneous rock types, found only in the western and southwestern parts of the quadrangle, are dacites, andesites, trachytes, and phonolites. The extent and mineralogy of the volcanic rocks has been described in detail by Collins (1949) and Stobbe (1949).

Structure

The Dalhart quadrangle contains three relatively small folds: the Sierra Grande arch, the Guy monocline, and the Clapham anticline (Plate I). The Sierra Grande arch trends north-northeast through the northwestern corner of the quadrangle and has a structural relief of about 850 m. The Guy monocline trends north in the northern part of the New Mexico portion of the quadrangle and has a structural relief of as much as 120 m. The Clapham anticline consists of three aligned domes and trends northwest through the southern part of the New Mexico portion of the quadrangle (Baldwin and Muehlberger, 1959). In the remainder of the quadrangle, the regional easterly dip is interrupted locally by small anticlinal and monoclinal flexures. Pre-Jurassic folding is evidenced by an angular unconformity between Triassic and Jurassic units along the Cimarron River (Baldwin and Muehlberger, 1959).

Hydrology

Surface drainages in the Dalhart quadrangle, with few exceptions, are dry during most of the year. The quadrangle is drained by three major drainages (listed from north to south): the Cimarron River, often called the "Dry Cimarron River" to distinguish it from the south-flowing Cimarron River to the west (Baldwin and Muehlberger, 1959); the North Canadian River; and Carrizo Creek, all of which flow generally east or east-southeast (Fig. 1).

The water table in the Dalhart quadrangle is 20 to 80 m deep. The principal aquifer is the Ogallala formation, but the Dakota and Purgatoire formations are also reliable aquifers (Baldwin and Muehlberger, 1959). Quality of the water is generally good and suffices for most uses, but locally it is poor, especially where Triassic beds are exposed (Cooper and Davis, 1967). Recharge to the aquifers is from local precipitation falling on the formation.

Uranium Occurrences

Very few uranium occurrences and no ore production are reported from the Dalhart quadrangle. A weakly mineralized sample from a sandstone plug in the Sheep Pen formation of the Dockum group was collected from the Ft. Pitt copper deposit in the northcentral part of the quadrangle. Also, a uranium prospect in the Brushy Basin member of the Morrison formation has been reported from the southwest corner of the quadrangle in Harding County, New Mexico (Table I; Finch, 1972). Uranium exploration to the west and southwest of Boise City, Oklahoma, is reported in Triassic red beds at depths exceeding 100 m (Salmon Bloch, Oklahoma Geol. Survey, personal communication, 1979). No occurrences of uranium have been reported from the Texas portion of the quadrangle. Airborne radiometric uranium anomalies are shown in Fig. 2 (Texas Instruments, Inc., 1979).

TABLE I

REPORTED URANIUM OCCURRENCES IN THE DALHART QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA

Name	Location	Host Rock	Reference
Ft. Pitt Copper Co.	T31N,R35E, Sec12 (NM)	Plug in Sheep Pen formation.	Finch, 1972
Gallager Brothers Ranch	T21N,R30E, Sec4 (NM)	Morrison formation.	Finch, 1972

Other Mineral Occurrences

No mineral occurrences of major importance are known in the Dalhart quadrangle, but a few minor occurrences of copper mineralization are known along the Cimarron River valley. The copper is generally associated with clastic plugs that occur in the Dockum group, but some mineralization is also found in the Sheep Pen sandstone (Dockum group) and the Exeter sandstone (Baldwin and Muehlberger, 1959). Several small-scale mining operations have exploited many of these mineralized sites. A few sites have provided clay for ceramic uses (Baldwin and Muehlberger, 1959, pp. 87-88). Small amounts of coal from the Dakota formation have also been used locally.

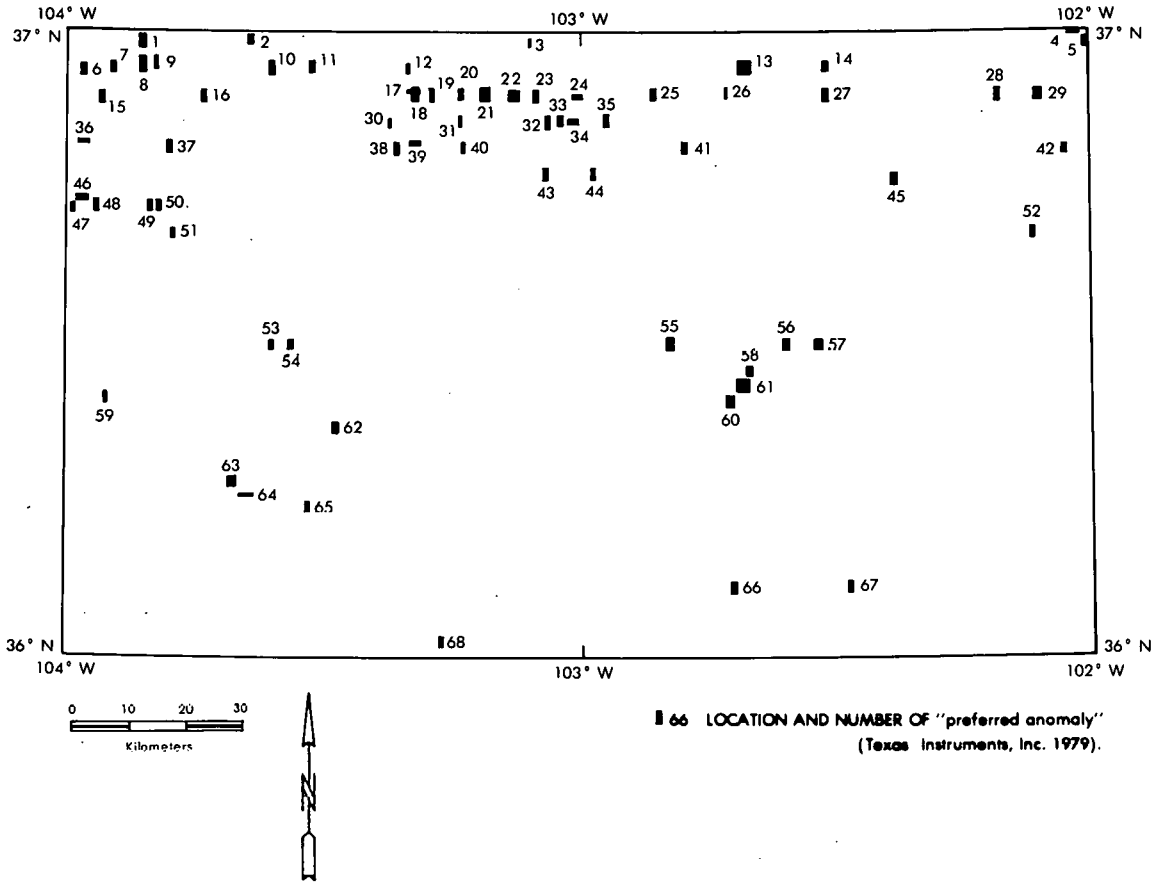


Fig. 2. Location of airborne radiometric uranium anomalies in the Dalhart quadrangle, New Mexico/Texas/Oklahoma.

IV. ANALYTICAL AND STATISTICAL DATA

Field measurements, weather, geologic, and geographic data for each sample site are listed for waters in Appendix I-A and for sediments in Appendix I-B. Analyses for uranium in water are found in Appendix I-A and for uranium, thorium, and aluminum, antimony, barium, beryllium, bismuth, cadmium, calcium, cerium, cesium, chlorine, chromium, cobalt, copper, dysprosium, europium, gold, hafnium, iron, lanthanum, lead, lithium, lutetium, magnesium, manganese, nickel, niobium, potassium, rubidium, samarium, scandium, silver, sodium, strontium, tantalum, tungsten, vanadium, ytterbium, and zinc as well as uranium/thorium (U/Th) ratios in sediments in Appendix I-B.

All samples were analyzed for total uranium at the LASL. Water samples were initially analyzed for uranium by fluorometry. In general, water samples containing more than 40 parts per billion (ppb) uranium were reanalyzed by delayed-neutron counting (DNC). All sediments were analyzed for uranium by

DNC. Other elemental concentrations in sediments were determined by neutron-activation analysis for 31 elements, by x-ray fluorescence for 9 elements, and by arc-source emission spectrography for 2 elements. Histograms for thorium concentrations in sediments are included in Appendix II. Appendix III is a summary of the LASL HSSR procedures, explanation of codes used, and key to sample types used in Appendix I.

The following discussion is limited to water samples containing over 20 parts per billion (ppb) uranium and to sediment samples containing over 6 parts per million (ppm) uranium. The significance of the remaining samples should not be discounted, as subtle variations in concentration might be useful in exploration.

Uranium Concentrations in Water Samples

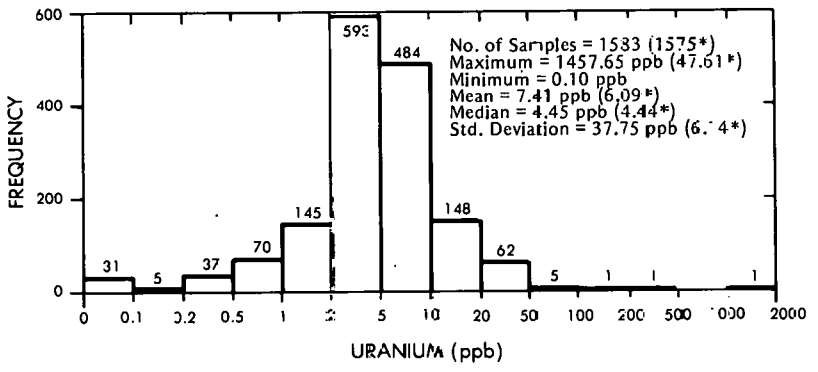
A total of 1583 water samples was collected from 1502 wells, 45 springs, and 36 streams at an average density of one sample per 12.6 km^2. Uranium concentrations range from 0.10 ppb to 1457.65 ppb and average 7.41 ppb (Fig. 3). Because of the significant positive bias introduced by a few very high values, the means and standard deviations were recalculated after omitting all uranium concentrations exceeding 50 ppb (Fig. 3). For discussion purposes, samples containing over 20 ppb are considered anomalous. Seventy samples (4.4% of the total population) are above this level (Table II). The majority of the anomalous samples are grouped spatially into five clusters (Fig. 4). All anomalous samples except one spring sample (N06283) were collected from wells.

Potential uranium ion complexing is an important mechanism that should be considered in any evaluation of the uranium concentrations in ground waters. 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. Barker and Scott (1958) show a correlation of uranium content with apparent residence time and with bicarbonate ion content in water samples from the Ogallala formation in the Llano Estacado of Texas and New Mexico (south of the Dalhart quadrangle). The presence of abundant caliche (calcium carbonate) in the principal aquifer (the Ogallala formation) in the Dalhart quadrangle along with long residence times for the water may result in significant complexing of uranium.

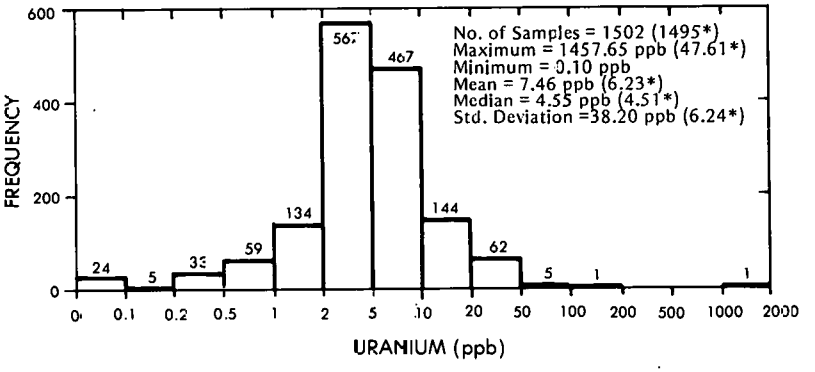
One group of anomalous water samples (cluster W1, Fig. 4) is located along the northern border of New Mexico in the Cimarron River valley. Most of these well sample sites are underlain by the Triassic Dockum group. Several aerial radiometric uranium anomalies are located within the same area (Fig. 2).

A second group of anomalous ground-water samples (cluster W2) lies east of cluster W1 in the northcentral part of the quadrangle. Samples in this cluster were collected in the Cimarron River valley from sites underlain predominantly by the Dockum group or Dakota-Purgatoire formations. Sample site N07608, at the eastern end of the cluster, is underlain by the Morrison formation. Several radiometric anomalies were found along the southern edge of the cluster (Fig. 2).

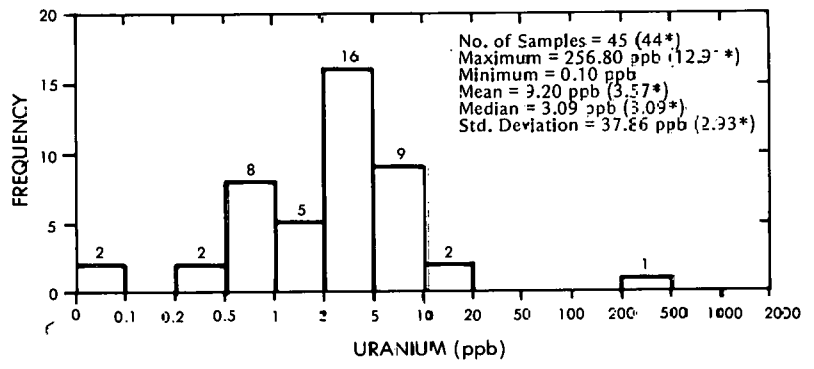
Three anomalous samples (cluster W3) were collected from an area south of the Cimarron River valley underlain by the Dakota formation. Many aerial radiometric anomalies occur in the same area (Fig. 2). Sample N06913 is particularly significant in that it contains 1457.65 ppb uranium, one of the highest values measured in a water sample during the HSSR program to date. Concentration of uranium by evaporation may be a factor in this extremely high value, since the sampler noted that the sample was collected from a holding tank at a windmill-pumped well.



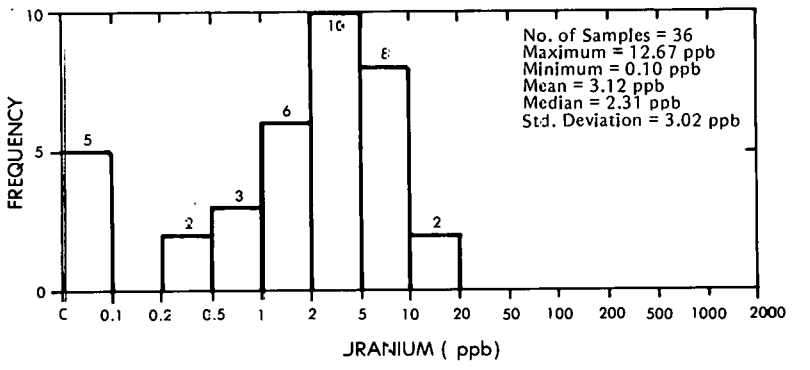
a. All waters



b Well waters



c. Spring waters



d. Stream waters

* Value recalculated after omitting samples containing >50 ppb

Fig. 3. Histograms and statisical data for uranium concentrations in water samples from the Dalhart quadrangle, New Mexico/Texas/Oklahoma.

TABLE II

WATER SAMPLES CONTAINING >20 PPB URANIUM FROM THE DALHART QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA

Sample Number	Uranium Concentration (ppb)	Conductivity (μmhos/cm)	Geologic Association*	Remarks
N05917	28.49	1250	Td	Cluster W1: Collected from Cimarron River Valley in northern portion of the quadrangle. Triassic and younger age rocks exposed in the area. Two radiometric anomalies in cluster.
N05919	36.20	1150	Td	
N05923	31.16	1300	Td	
N05940	24.53	2000	Kd	
N05941	26.33	1100	Td	
N05943	43.60	1600	KJ	
N05960	26.19	1200	Qal, Td	
N06016	47.40	1550	Td	
N06033	24.90	1600	Td	
N06426	22.62	1100	Td	
N05936	38.25	800	Td	Cluster W2: Collected from Cimarron River Valley in northeastern portion of the quadrangle. Triassic and younger age rocks exposed in the area. Several radiometric anomalies associated with cluster.
N05937	30.82	1000	Td	
N06889	20.32	850	Td	
N06891	39.26	1050	Td	
N06892	35.47	1400	Td	
N06894	105.24	1100	Qal, KJ	
N06896	36.21	1320	Qal, KJ	
N06898	38.50	1250	KJ, Kd	
N07608	22.88	1100	Jm	
N06913	1457.65	1900	Kd	Cluster W3: From small area immediately south of Cimarron River Valley between clusters W1 and W2. Several radiometric anomalies to the north and south of cluster.
N06914	75.26	1400	Kd	
N06915	33.84	1500	Kd	
N07246	21.87	750	QTu	Cluster W4: Located in central portion of the quadrangle. Area covered by Ogallala formation and sand dunes or playa lake deposits. Several radiometric anomalies associated with cluster.
N07274	21.46	900	QTu	
N07278	20.54	800	QTu	
N07405	22.83	1200	QTu	
N07408	30.25	750	QTu	
N07409	20.36	700	QTu	
N07410	41.58	1700	QTu	
N07412	23.73	1000	QTu	
N07413	30.41	975	QTu	
N07418	72.40	1175	QTu	
N07420	41.42	750	QTu	
N07426	22.62	875	QTu	
N07427	21.70	800	QTu	
N07429	30.48	1100	QTu	
N07430	47.61	1100	QTu	
N07431	34.17	900	QTu	
N07433	58.01	1500	Qp	
N07434	35.69	1000	QTu	
N07451	30.08	700	QTu	
N07452	34.64	850	QTu	
N05964	21.66	900	Tu	Cluster W5: Located on southern flank of Clapham Anticline in southern part of quadrangle. Jurassic and Cretaceous rocks exposed in area. No radiometric anomalies nearby.
N05965	27.68	1900	Qal, KJ	
N06211	31.62	800	Jm	
N06291	25.86	750	Qal, Qt	
N06294	26.89	950	Qt	
N06087	47.18	1800	Tu	Isolated sample from SW corner of quadrangle. From 160-ft deep well. No intermediate-value samples collected in vicinity.
N06119	23.81	410	Kd	Isolated high-uranium sample from west-central part of quadrangle.
N06242	30.65	790	Qal, Tu	Isolated high-uranium sample collected about 20 km NW of cluster W5.
N06266	25.18	2100	KJ	Pair of anomalous samples collected in SW part of quadrangle near other intermediate-level samples.
N06268	23.05	2600	KJ	
N06283	255.80	4250	Tu	Isolated anomalous spring sample collected about 13 km SW of Clayton.
N06289	31.80	1075	Qal	Isolated anomalous sample collected about 15 km west of cluster W5 from artesian well.
N06475	21.03	700	Kd	Isolated anomalous sample collected about 10 km north of cluster W5.
N06862	24.43	1350	Qal, QTb	Isolated anomalous sample collected in western part of area just north of Sierra Grande.
N06873	68.60	810	Kd	Isolated anomalous sample collected in northcentral part of quadrangle south of cluster W3.
N07279	23.98	1000	Td	Collected near north edge of quadrangle in Cimarron River Valley.
N07342	61.04	650	Qal, QTu	Collected SW of cluster W4.
N07350	21.87	700	QTu	Collected SW of cluster W4.
N07403	34.47	550	QTu	Collected south of cluster W4.
N07667	20.20	800	Tu, QTu	Isolated anomalous sample collected near the northeast edge of the quadrangle.
N07728	35.87	700	Qso	Collected along north edge in east-central part of quadrangle.
N07788	29.66	800	Kd	Collected from northern Oklahoma portion in Cimarron River valley in area of many intermediate-level (10-20 ppb) samples.
N07792	20.53	600	Td	
N07799	31.17	490	Tu	
N07809	20.70	480	Tu, QTu	
N07825	23.33	500	Kd	
N07837	20.35	500	Tu, QTu	Isolated sample collected about 14 km west of Boise City from 160-ft deep well.
N07894	29.78	490	Tu, QTu	Isolated anomalous sample collected about 19 km east of Boise City.

* Key to geologic symbols (as used on Plate I): Qal = alluvium; Qso = windblown sand dunes; Qt = fluviatile terrace deposits; Qp = playa lake deposits; QTb = Clayton basalt; QTu = Ogallala formation and upland deposits; Tu = Ogallala formation; Kd = Dakota formation; KJ = Purgatoire and Morrison formations; Jm = Morrison formation; Td = Dockum group.

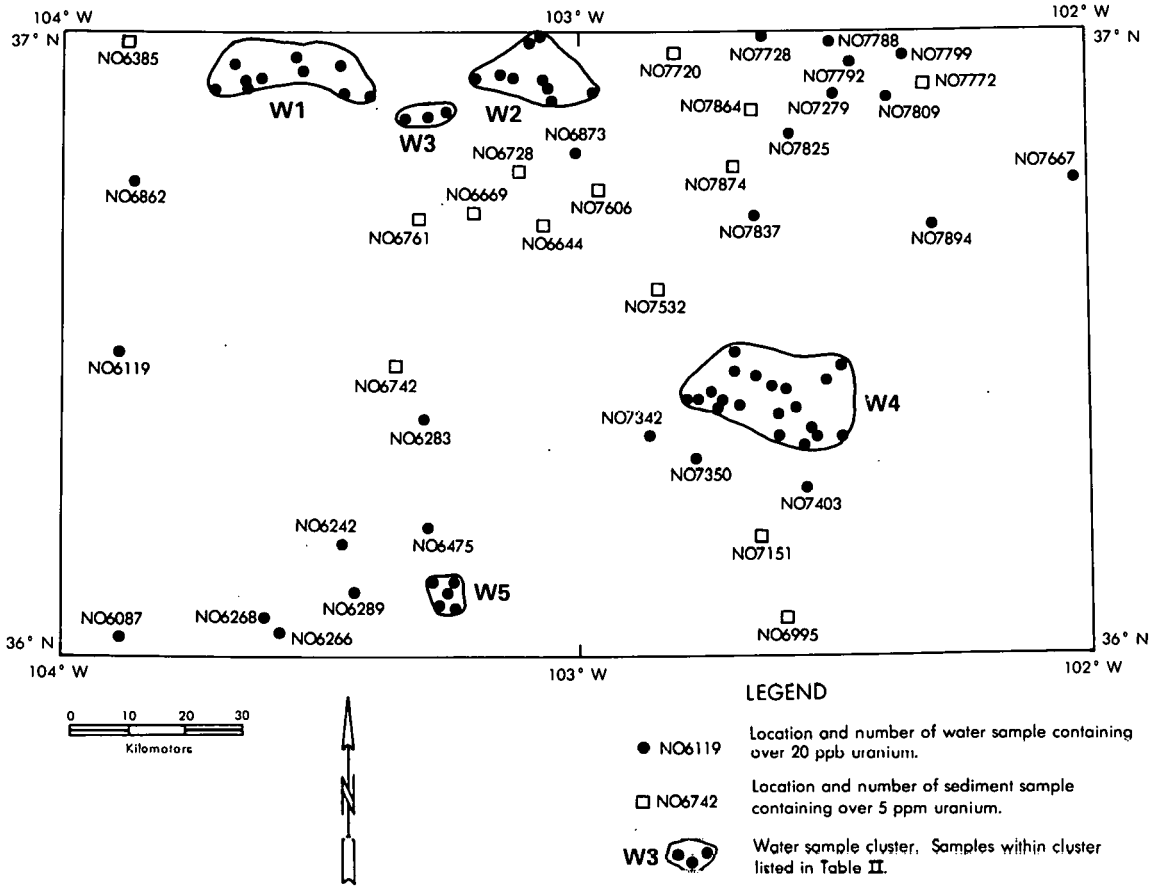


Fig. 4. Location of anomalous water and sediment samples and water sample clusters from the Dalhart quadrangle, New Mexico/Texas/Oklahoma.

The largest group of anomalous samples (cluster W4) is located in the central part of the quadrangle (Fig. 4). Sample sites of this cluster are underlain mostly by the Ogallala formation, wind-blown sand, or playa deposits. Several radiometric anomalies are also associated with the cluster.

A fifth group of anomalous water samples (cluster W5) consists of five samples containing 21.66 to 31.62 ppb uranium that were collected from the southern end of the Clapham Anticline (Plate I). The Morrison formation, Dakota-Purgatoire formation, and alluvial deposits are exposed in the area. No radiometric anomalies are directly associated with this cluster. However, because of the association with favorable host units, the significance of this cluster should be investigated further.

Though not dense enough to form a cluster, several anomalous samples containing up to 35.87 ppb uranium were collected in the northeast portion of the quadrangle (Fig. 4). Many samples collected nearby contain intermediate uranium concentrations (10-20 ppb). These anomalous samples are also associated predominantly with exposures of the Dockum group in the Cimarron River

valley. These and other anomalous water samples not grouped into any definable clusters are listed in Table II.

Uranium Concentrations in Sediment Samples

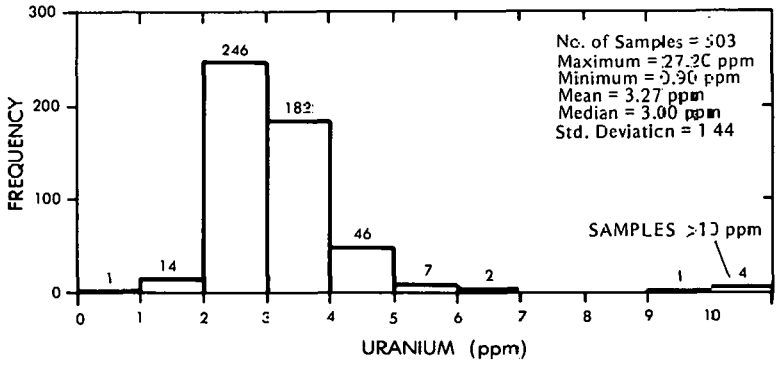
A total of 503 sediment samples was collected from 431 dry streams, 37 wet streams, and 35 springs. Because the surface drainage is poorly integrated in the southern and eastern parts of the quadrangle, sediment samples were collected at an average density of one sample per 39.7 km^2. However, in areas where surface streams are present, the sample density is close to one sample per 10 km^2. Uranium concentrations in these samples range from 0.90 ppm to 27.20 ppm, and average 3.27 ppm (Fig. 5). For discussion purposes, samples containing over 5 ppm uranium, corresponding to the three largest symbol sizes on Plate IV, are considered anomalous. Fourteen samples (2.8% of the total population) that contain more than this amount are listed in Table III along with pertinent information concerning geologic associations. All but three of the samples listed in Table III (N06644, N06669, N06728) were collected from dry streams.

The five samples containing the highest uranium concentrations (N06644, N06669, N06761, N07606, and N07874), ranging from 9.50 ppm to 27.20 ppm (Table III), trend east-west through the central part of the quadrangle (Fig. 4). These samples were collected from areas where Cretaceous units are exposed by downcutting of major streams through the Quaternary units. The remainder of the anomalous samples were collected from scattered locations within the quadrangle. No groups or pairs of anomalous samples indicate any single formation as a potential source of the anomalous concentrations.

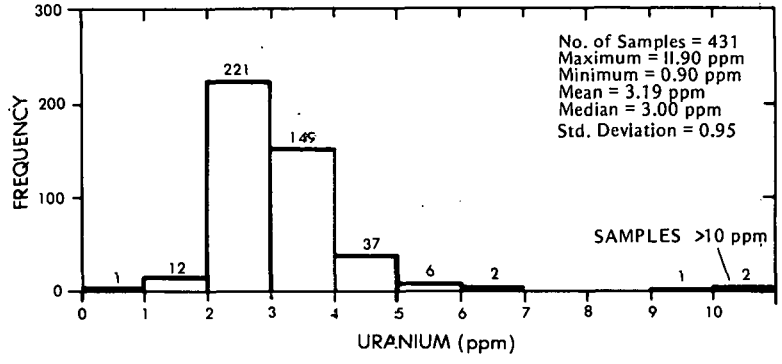
The uranium/thorium (U/Th) ratios of all the sediment samples from the quadrangle are relatively constant and average 0.300, which is close to the crustal average of 0.250. The U/Th ratios of the anomalous sediment samples, however, generally exceed 0.300, suggesting that some of the uranium is present in a soluble form and is not completely due to resistate or heavy minerals. One exception to this is sample N06644, which has the highest uranium concentration (27.20 ppm) and a U/Th ratio of 0.254. The sampler noted "some fine, dark gray, metallic sediment" in the sample, suggesting that the sample may contain an enrichment of heavy minerals.

V. SUMMARY AND CONCLUSIONS

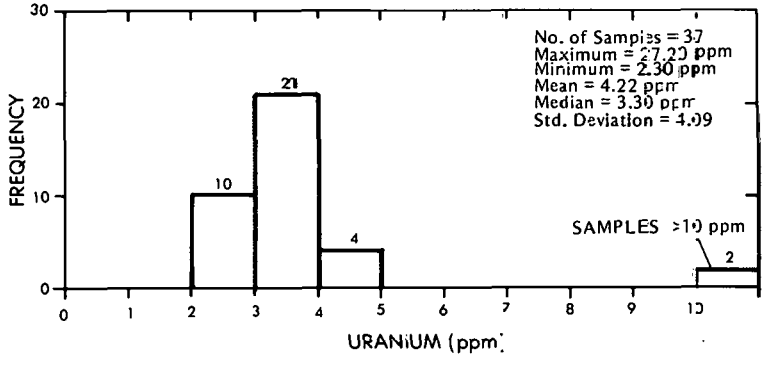
A total of 1583 water samples was collected from 1502 wells, 45 springs, and 36 streams. Uranium concentrations range from 0.10 ppb to 1457.65 ppb and average 7.41 ppb. Seventy samples containing over 20 ppb uranium are considered anomalous. Most of the anomalous samples are grouped into five clusters or areas of interest. Three clusters are located near the northern edge of the quadrangle along the Cimarron River valley where Mesozoic strata are exposed. The fourth and largest cluster is near the center of the quadrangle where the Ogallala formation and playa deposits occur. Samples from the fifth cluster were collected from the southwestern portion of the quadrangle at the southern end of the Clapham Anticline where the Morrison and Dakota-Purgatoire formations are exposed. Airborne radiometric anomalies are associated with all but the fifth water cluster. Twenty-three other anomalous samples do not occur in clusters; several of these were collected from areas underlain by the Triassic Dockum group in the northeastern portion of the quadrangle in or near the Cimarron River valley.



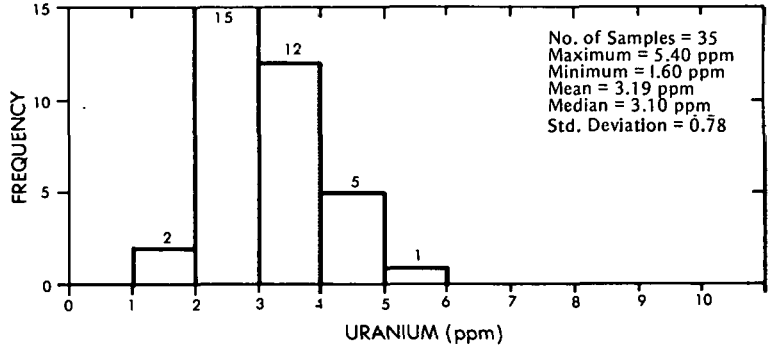
a. All sediments



b. Dry stream sediments



c. Wet stream sediment



d. Spring sediments

Fig. 5. Histograms and statistical data for uranium concentrations in sediment samples from the Dalhart quadrangle, New Mexico/Texas/ Oklahoma.

TABLE III

SEDIMENT SAMPLES CONTAINING >5 PPM URANIUM
FROM THE DALHART QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA

Sample Number	Uranium Concentration (ppm)	Geologic Association*	U/Th Ratio	Remarks
N06385	5.10	Kg	0.359	From NW corner of area.
N06644	27.20	Qal	0.254	Wet stream sediment from Corrumpa Cr. about 15 km downstream from N06669. Some fine, dark gray, metallic sediment.
N06728	5.40	Kd	0.386	Spring sediment from north-central part of quadrangle. Possibly represents return flow in stream.
N06669	10.50	Qal	0.407	Wet stream sediment from small northern tributary of Corrumpa Cr., downstream from N06761.
N06742	6.30	Tu	0.309	From tributary of Perica Cr. about 16 km west of Clayton, NM.
N06761	11.90	Qal	0.773	From Corrumpa Cr., east of anomalous samples N06669 and N06644.
N06995	5.20	Qal, QTu	0.510	From Carrizozo Cr. at Rita Blanca Cr., about 6 km west of Dalhart.
N07151	5.30	Qal, QTu	0.491	From Rita Blanca Cr., about 18 km west-northwest of Dalhart. Cattle reported in area.
N07532	6.10	QTu	0.347	From small tributary of North Canadian River between Clayton and Boise City. Gravel pit and roads upstream.
N07606	9.50	Tu	0.438	From small tributary of South Carrizozo Cr.
N07720	5.10	Qal, Jm	0.425	From Gallinas Canon, along north edge of quadrangle. Cattle and old cars reported upstream.
N07772	5.70	Tu/QTu	0.570	From southern tributary of Cimarron River in NE part of area. Sewage disposal ponds about 2.5 km upstream.
N07864	5.70	Kd	0.523	From small drainage area tributary to Cimarron River NW of Boise City.
N07874	10.60	Tu/QTu	0.522	From southern tributary of Cold Springs Cr., about 17 km NW of Boise City.

* Key to geologic symbols (as used on Plate I): Qal = alluvium and channel deposits; QTu = Ogallala formation and undifferentiated surficial deposits; Tu = Ogallala formation; Kd = Dakota formation; Kg = Greenhorn and Graneros formations; Jm = Morrison formation.

A total of 503 sediment samples was collected from 431 dry streams, 37 wet streams, and 35 springs. Uranium concentrations range from 0.90 ppm to 27.20 ppm and average 3.27 ppm. Fourteen samples containing over 5 ppm uranium are considered anomalous. The five highest uranium concentration samples were collected from sites where Cretaceous units are exposed through the overlying Quaternary units. The remainder of the anomalous samples were collected from scattered locations and do not indicate any single formation or unit as a source of the anomalous uranium levels. The generally high U/Th

ratios of the anomalous samples suggest that the uranium in these samples is not predominantly present in resistate or heavy minerals.

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APPENDIX I

LISTINGS OF FIELD DATA AND ELEMENTAL CONCENTRATIONS FOR SAMPLES FROM THE DALHART NTMS QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA

APPENDIX I-A

Listings of Field Data and Uranium Concentrations
for Water Samples from the Dalhart Quadrangle, New Mexico/Texas/Oklahoma
(Pages 16 through 47)

(See Appendix III for Code to Listings)

APPENDIX I-A. Uranium Concentrations for Water 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)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
35-36.9764-103.6556-2-08-						0-N05901-10/07/76-14-		2-	15.3-	-	-	7.9-	1700-		-1-1-	-	-3-	-1-	-2-	3-	4-	3-	-1-	3-	2-	90-	-	-	15.15
35-36.8800-103.9200-2-06-						0-N05907-10/07/76-16-		4-	6.2-	-	-	7.5-	480-		-3-8-	5-	7-	2-	-1-	-4-	3-	4-	3-	-3-	-	-	-	-	0.80
35-36.9650-103.8767-2-07-						0-N05911-10/07/76-16-		3-	5.0-	-	-	7.6-	100-		-1-	-5-	6-	1-	2-	3-	1-	4-	3-	4-	3-	-3-	-	-	-	-	1.30
35-36.9119-103.5981-2-08-						0-N05914-10/07/76-14-		4-	9.0-	-	-	7.5-	1200-		-1-4-	-	-2-	-1-	-4-	3-	4-	3-	-1-	1-	-	-	-	-	17.10
35-36.9378-103.5358-2-08-						0-N05917-10/07/76-13-			-10.1-	-	-	7.6-	1250-		-1-4-	-	-2-	-1-	-4-	3-	4-	3-	-1-	1-	-	-	-	-	28.49
35-36.9472-103.5058-2-08-						0-N05918-10/07/76-12-		-1-	9.1-	-	-		-	1900-	-1-4-	-	-2-	-1-	-4-	3-	4-	3-	-1-	1-	-	-	-	-	8.10
35-36.9589-103.5489-2-08-						0-N05919-10/07/76-12-		-1-	8.0-	-	-	7.9-	1150-		-1-3-	-	-2-	-1-	-4-	3-	4-	3-	-1-	1-	-	-	-	-	36.20*
35-36.9656-103.5975-2-08-						0-N05920-10/07/76-11-		-1-	9.9-	-	-	7.5-	1050-		-1-3-	-	-3-	-1-	-4-	3-	4-	3-	-1-	1-	-	-	-	-	13.98
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35-36.9250-103.6139-2-08-						0-N05923-10/07/76-10-		-1-	9.2-	-	-	7.6-	1300-		-1-4-	-	-3-	-1-	-4-	3-	4-	3-	-1-	1-	-	-	-	-	31.16
35-36.9731-103.1631-2-08-						0-N05927-10/06/76-16-		6-	12.1-	-	-	7.7-	650-		-3-8-	-	-2-	-1-	-4-	3-	4-	3-	-1-	1-	-	-	-	-	7.50
35-36.9831-103.1858-2-08-						0-N05928-10/06/76-15-		6-	10.1-	-	-	7.8-	1100-		-3-8-	-	-2-	-1-	-4-	3-	4-	3-	-1-	8-	-	-	-	-	13.80
35-36.9219-103.1767-2-08-						0-N05935-10/06/76-14-		8-	10.5-	-	-	7.7-	1100-		-1-3-	-	-2-	-1-	-4-	3-	3-	4-	-1-	1-	-	-	-	-	15.89
35-36.9233-103.1975-2-08-						0-N05936-10/06/76-16-		6-	10.2-	-	-	7.8-	600-		-1-3-	-	-3-	-1-	-4-	3-	3-	4-	-1-	1-	-	-	-	-	38.25
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35-36.9108-103.4336-2-07-						0-N05938-10/07/76-15-		5-	9.8-	-	-	6.8-	700-		-1-2-	5-	6-	2-	3-	5-	2-	1-	3-	4-	3-	-1-	-	-	-	-	6.90
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35-36.9944-103.7200-2-06-						0-N05944-10/07/76-15-		2-	17.3-	0-	-	7.7-	1100-		-1-3-	-	-2-	2-	1-	-1-	3-	4-	2-	-3-	-	-	-	-	3.40
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35-36.9747-103.6664-2-08-						0-N05946-10/07/76-15-		4-	14.2-	-	-	7.9-	1650-		-1-1-	-	-3-	-1-	-4-	3-	4-	2-	-1-	1-	6-	50-	-	15.80*
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35-36.7936-103.4242-2-08-						0-N05955-10/05/76-15-		17-	14.3-	-	-	7.8-	1200-		-1-1-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	6-	-	-	-	6.80
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35-36.0114-103.5639-2-08-						0-N05961-09/23/76-10-		24-	15.8-	-	-	7.2-	1200-		1-1-6-	-	-	-	-1-	-3-	2-	2-	1-	-1-	1-	3-	-	-	-	15.46
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35-36.1003-103.2178-2-08-						0-N05963-09/22/76-		9-	18.5-	2-	-	7.2-	500-		27-1-1-	-	-	-	-1-	-4-	2-	1-	2-	-1-	1-	12-	-	-	3.24
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35-36.0103-103.2403-2-08-						0-N05968-09/22/76-11-		24-	16.0-	-	-	8.2-	950-		69-1-1-	-	-	-	-1-	-4-	2-	2-	2-	-1-	1-	6-	-	-	-	1.46
35-36.0133-103.1992-2-08-						0-N05969-09/22/76-11-		24-	14.6-	-	-	7.6-	1200-		27-1-1-	-	-	-	-1-	-4-	2-	1-	2-	-1-	3-	6-	-	-	-	3.21
35-36.0131-103.1492-2-08-						0-N05970-09/22/76-11-		24-	17.8-	-	-	7.3-	500-		-1-1-	-	-	-	-5-	-4-	2-	1-	2-	-1-	1-	6-	-	-	-	2.78
35-36.0281-103.1786-2-08-						0-N05971-09/22/76-12-		26-	17.5-	-	-	7.9-	850-		27-1-1-	-	-	-	-1-	-4-	2-	1-	2-	-1-	1-	6-	-	-	-	6.95
35-36.0561-103.1839-2-08-						0-N05972-09/22/76-12-		28-	14.8-	-	-	7.3-	490-		27-1-1-	-	-	-	-1-	-4-	2-	3-	1-	-1-	1-	6-	-	-	-	4.03
35-36.0461-103.1444-2-08-						0-N05973-09/22/76-12-		26-	15.5-	-	-	7.3-	500-		55-1-1-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	6-	-	-	-	2.83
35-36.1189-103.1939-2-08-						0-N05974-09/22/76-13-		29-	18.5-	-	-	7.2-	415-		-1-1-	-	-	-	-1-	-3-	2-	1-	1-	-1-	1-	6-	-	-	-	3.79
35-36.0922-103.1864-2-08-						0-N05975-09/22/76-13-		29-	19.0-	-	-	7.0-	550-		27-1-1-	-	-	-	-1-	-3-	2-	1-	1-	-1-	1-	-	-	-	-	3.79
35-36.0883-103.1619-2-08-						0-N05976-09/22/76-13-		30-	17.5-	-	-	7.4-	500-		27-1-1-	-	-	-	-1-	-4-	2-	2-	1-	-1-	1-	6-	-	-	-	7.10
35-36.0642-103.1500-2-08-						0-N05977-09/22/76-13-		31-	16.4-	-	-	7.4-	560-		-1-1-	-	-	-	-1-	-3-	2-	2-	1-	-1-	1-	5-	-	-	-	5.00

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
35-	36.0867-	103.7183-	2-	08-	0-	N05978-	09/23/76-	15-	28-	18.0-	-	-	6.7-	130C-	5-	3-	1-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	4-	3-	250-	-	-	0.95
35-	36.0689-	103.6747-	2-	08-	0-	N05979-	09/21/76-	16-	28-	18.0-	-	-	8.4-	1200-	1-	1-	1-	-	-	-	-	-1-	-4-	3-	4-	2-	-1-	2-	6-	-	-	-	4.02
35-	36.0589-	103.6575-	2-	08-	0-	N05981-	09/21/76-	18-	27-	20.0-	-	-	8.2-	500-	1-	1-	1-	-	-	-	-	-1-	-4-	3-	3-	2-	-1-	1-	6-	-	-	-	10.86
35-	36.0608-	103.6700-	2-	08-	0-	N05982-	09/21/76-	18-	24-	15.0-	-	-	7.3-	650-	13-	1-	1-	-	-	-	-	-1-	-4-	3-	3-	2-	-1-	1-	6-	-	-	-	5.00
35-	36.0669-	103.6797-	2-	08-	0-	N05983-	09/22/76-	10-	20-	14.0-	-	-	7.5-	1000-	17-	1-	1-	-	-	-	-	-1-	-3-	3-	2-	3-	-1-	1-	8-	-	-	-	6.57
35-	36.0859-	103.6986-	2-	08-	0-	N05985-	09/22/76-	10-	20-	16.0-	-	-	7.4-	1900-	3-	1-	1-	-	-	-	-	-1-	-1-	2-	3-	3-	-1-	1-	6-	-	-	-	19.62*
35-	36.0814-	103.7100-	2-	08-	0-	N05986-	09/22/76-	11-	28-	18.0-	-	-	8.2-	1200-	3-	1-	1-	-	-	-	-	-1-	-2-	2-	2-	3-	-1-	1-	8-	-	-	-	6.05
35-	36.0647-	103.7064-	2-	08-	0-	N05987-	09/22/76-	11-	20-	14.0-	-	-	6.7-	1700-	5-	1-	1-	-	-	-	-	-1-	-4-	2-	1-	2-	-1-	1-	6-	-	-	-	0.76
35-	36.1483-	103.6981-	2-	08-	0-	N05990-	09/22/76-	13-	28-	17.0-	-	-	6.8-	1800-	7-	1-	1-	-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	2-	-	-	-	0.22
35-	36.1656-	103.7072-	2-	08-	0-	N05991-	09/22/76-	13-	29-	14.0-	-	-	7.2-	1300-	9-	1-	3-	-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	6-	-	-	-	0.10
35-	36.1261-	103.8842-	2-	08-	0-	N05992-	09/16/76-	18-	23-	17.0-	-	-	7.4-	450-	1C-	1-	6-	-	-	-	-	-1-	-4-	3-	1-	2-	-1-	1-	-	-	-	-	3.43
35-	36.1342-	103.9264-	2-	08-	0-	N05993-	09/16/76-	18-	24-	19.0-	-	-	7.7-	400-	13-	3-	6-	-	-	-	-	-1-	-4-	3-	1-	3-	-1-	1-	-	-	-	-	3.81
35-	36.1478-	103.9019-	2-	08-	0-	N05994-	09/16/76-	19-	22-	18.0-	-	-	6.4-	400-	6-	3-	8-	-	-	-	-	-1-	-4-	3-	1-	2-	-1-	1-	-	-	-	-	2.94
35-	36.1406-	103.8781-	2-	08-	0-	N05995-	09/17/76-	9-	19-	18.2-	-	-	7.2-	410-	14-	3-	8-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	-	-	-	-	4.73
35-	36.1628-	103.9186-	2-	08-	0-	N05996-	09/16/76-	10-	23-	18.8-	-	-	7.5-	410-	20-	3-	8-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	-	-	-	-	3.11
35-	36.1797-	103.9217-	2-	08-	0-	N05997-	09/16/76-	11-	24-	17.4-	-	-	7.5-	400-	13-	3-	8-	-	-	-	-	-1-	-4-	3-	3-	1-	-1-	1-	-	-	-	-	2.69
35-	36.1736-	103.8794-	2-	08-	0-	N05998-	09/16/76-	12-	28-	21.5-	C-	-	8.1-	400-	15-	3-	8-	-	-	1-	3-	3-	-4-	3-	1-	1-	-1-	1-	-	-	-	-	3.89
35-	36.1667-	103.8636-	2-	08-	0-	N05999-	09/16/76-	12-	27-	19.0-	-	-	7.4-	500-	8-	1-	6-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	-	-	-	-	3.42
35-	36.1897-	103.8811-	2-	08-	0-	N06000-	09/16/76-	15-	28-	21.5-	-	-	7.6-	400-	15-	3-	8-	-	-	-	-	-1-	-4-	3-	1-	2-	-1-	1-	-	-	-	-	3.70
35-	36.1878-	103.8717-	2-	08-	0-	N06001-	09/16/76-	16-	26-	18.0-	-	-	7.6-	400-	8-	3-	8-	-	-	-	-	-2-	-4-	3-	2-	3-	-1-	1-	-	-	-	-	2.46
35-	36.2467-	103.9192-	2-	08-	0-	N06002-	09/16/76-	17-	24-	17.0-	-	-	7.5-	450-	13-	1-	6-	-	-	-	-	-1-	-4-	3-	1-	2-	-1-	1-	-	-	-	-	4.07
35-	36.2197-	103.9308-	2-	08-	0-	N06003-	09/17/76-	11-	19-	18.0-	C-	-	7.8-	400-	15-	3-	8-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	-	-	-	-	1.71
35-	36.2033-	103.9097-	2-	08-	0-	N06004-	09/17/76-	12-	25-	22.2-	C-	-	8.2-	420-	15-	3-	8-	-	-	1-	-3-	-4-	-4-	3-	1-	1-	-1-	1-	-	-	-	-	3.64
35-	36.2267-	103.9611-	2-	08-	0-	N06005-	09/17/76-	14-	23-	20.5-	-	-	7.5-	500-	3-	3-	8-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	1-	-	-	-	-	2.72
35-	36.1692-	103.8350-	2-	08-	0-	N06007-	09/19/76-	16-	24-	20.2-	-	-	8.5-	800-	15-	1-	6-	-	-	-	-	-1-	-4-	3-	1-	2-	-1-	1-	6-	160-	80-		6.05
35-	36.2317-	103.8286-	2-	08-	0-	N06009-	09/19/76-	17-	18-	17.2-	-	-	7.6-	450-	6-	1-	6-	-	-	-	-	-1-	-4-	2-	1-	3-	-1-	1-	-	-	-	-	6.87
35-	36.1936-	103.7803-	2-	08-	0-	N06011-	09/19/76-	19-	19-	21.0-	-	-	8.3-	950-	15-	1-	6-	-	-	-	-	-2-	-4-	3-	2-	3-	-1-	1-	-	-	-	-	0.20
35-	36.2697-	103.7525-	2-	08-	0-	N06012-	09/20/76-	11-	15-	16.0-	-	-	6.6-	600-	12-	1-	6-	-	-	-1-	-2-	-4-	-3-	1-	3-	-1-	-1-	1-	-	-	-	-	0.99
35-	36.2186-	103.7675-	2-	08-	0-	N06013-	09/20/76-	12-	18-	18.2-	-	-	7.6-	600-	20-	1-	6-	-	-	-1-	-5-	-4-	-2-	1-	2-	-1-	-1-	1-	-	-	-	-	1.10
35-	36.2067-	103.7878-	2-	08-	0-	N06015-	09/20/76-	15-	24-	21.0-	-	-	7.8-	1100-	19-	1-	6-	-	-	-1-	-3-	-5-	-4-	-3-	2-	2-	-1-	1-	-	-	-	-	1.29
35-	36.9203-	103.6458-	2-	08-	0-	N06016-	10/07/76-	11-	1-	15.8-	-	-	7.8-	1550-	-1-	4-	-	-	-	3-	-1-	-4-	-3-	4-	5-	-1-	-1-	3-	2-	-	-	-	47.40*
35-	36.2844-	103.7908-	2-	08-	0-	N06017-	09/20/76-	18-	23-	19.8-	C-	-	8.5-	450-	13-	3-	8-	-	-	-	-	-3-	-4-	3-	1-	2-	-1-	1-	-	-	-	-	13.97
35-	36.1258-	103.8183-	2-	08-	0-	N06018-	09/21/76-	9-	17-	17.5-	-	-	7.7-	400-	13-	1-	1-	-	-	1-	-3-	1-	-4-	3-	1-	1-	-1-	1-	-	-	-	-	0.17
35-	36.1333-	103.8467-	2-	08-	0-	N06019-	09/21/76-	10-	21-	18.2-	-	-	8.4-	400-	13-	1-	1-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	-	-	-	-	3.29
35-	36.2197-	103.8553-	2-	07-	0-	N06021-	09/21/76-	12-	26-	21.5-	C-	-	8.1-	480-	7-	1-	1-	-	-	-3-	-3-	-3-	-4-	-3-	3-	1-	-9-	-	-	-	-	-	2.46
35-	36.9094-	103.6714-	2-	08-	0-	N06022-	10/07/76-	11-	2-	14.2-	-	-	7.9-	1150-	-1-	4-	-	-	-3-	-1-	-4-	-3-	-4-	-3-	-1-	-1-	5-	-	-	-	-	18.90
35-	36.3661-	103.7008-	2-	08-	0-	N06023-	09/22/76-	12-	25-	17.5-	-	-	8.5-	400-	8-	3-	8-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	-	-	-	-	3.48
35-	36.3347-	103.6669-	2-	08-	0-	N06024-	09/22/76-	12-	27-	19.5-	-	-	7.4-	400-	5-	1-	6-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	-	-	-	-	8.55
35-	36.3497-	103.6597-	2-	08-	0-	N06025-	09/22/76-	13-	27-	19.0-	-	-	7.8-	400-	6-	1-	1-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	-	-	-	-	3.51
35-	36.3722-	103.6425-	2-	08-	0-	N06026-	09/22/76-	14-	27-	18.2-	-	-	7.7-	380-	6-	1-	6-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	-	-	-	-	2.86
35-	36.3942-	103.6489-	2-	08-	0-	N06027-	09/22/76-	14-	27-	18.0-	-	-	7.5-	310-	1C-	3-	8-	-	-	-3-	-3-	1-	-4-	3-	1-	1-	-1-	1-	-	-	-	-	0.88
35-	36.4228-	103.6353-	2-	08-	0-	N06028-	09/22/76-	15-	27-	21.0-	-	-	8.3-	1400-	3-	1-	1-	-	-	-3-	-3-	2-	-4-	-3-	2-	1-	-1-	1-	-	-	-	-	2.24
35-	36.4117-	103.6672-	2-	08-	0-	N06029-	09/22/76-	15-	23-	21.5-	C-	-	8.2-	400-	10-	1-	7-	-	-	-1-	-3-	1-	-4-	-3-	2-	1-	-1-	1-	-	-	-	-	2.68
35-	36.4133-	103.7014-	2-	08-	0-	N06030-	09/22/76-	15-	24-	22.0-	-	-	7.6-	450-	15-	1-	6-	-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	1-	-	-	-	-	2.27
35-	36.3942-	103.6844-	2-	08-	0-	N06031-	09/22/76-	16-	22-	18.0-	-	-	7.8-	400-	8-	1-	1-	-	-	-3-	-3-	1-	-4-	-3-	1-	1-	-1-	1-	-	-	-	-	4.76
35-	36.4078-	103.7281-	2-	08-	0-	N06032-	09/22/76-	16-	19-	18.0-	-	-	7.9-	400-	12-	1-	1-	-	-	-3-	-3-	1-	-4-	-3-	1-	2-	-1-	1-	-	-	-	-	2.65
35-	36.9089-	103.7058-	2-	08-	0-	N06033-	10/07/76-	11-	2-	14.1-	-	-	7.8-	1600-	-1-	4-	-	-	-3-	-1-	-4-	-3-	-4-	-5-	-1-	-1-	5-	-	-	-	-	24.90
35-	36.4381-	103.6572-	2-	08-	0-	N06034-	09/22/76-	18-	20-	18.5-	-	-	8.0-	350-	3-	1-	1-	-	-	-3-	-3-	1-	-4-	-3-	1-	2-	-1-	1-	-	-	-	-	1.21
35-	36.4997-	103.6481-	2-	08-	0-	N06036-	09/22/76-	18-	20-	20.0-	-	-	7.9-	380-	5-	3-	8-	-	-	-3-	-3-	1-	-4-	-3-	2-	2-	-1-	1-	-	-	-	-	1.74
35-	36.4564-	103.6664-	2-	08-	0-	N06037-	09/23/76-	8-	16-	14.5-	-	-	7.1-	250-	5-	3-	8-	-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	1-	-	-	-	-	0.31
35-	36.4367-	103.7092-	2-	08-	0-	N06038-	09/23/76-	9-	17-	16.2-	-	-	7.8-	400-	6-	3-	8-	-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	1-	-	-	-	-	1.73

APPENDIX I-A. (continued). Uranium Concentrations for Water 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)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
35-36.4486-103.7364-2-08-						0-N06039-09/23/76-10-	19-17.5-		-	-			7.3-	380-		10-3-8-	-	-	-1-	2-	1-	-4-	2-	2-	1-	-1-	1-	-	-	-	0.86
35-36.4711-103.7303-2-08-						0-N06040-09/23/76-10-	20-17.0-		-	-			7.9-	600-		6-1-1-	-	-	3-	3-	1-	-4-	3-	1-	1-	-1-	1-	-	-	-	8.22
35-36.4692-103.6878-2-08-						0-N06042-09/23/76-11-	24-21.0-		-	-			7.9-	325-		6-3-8-	-	-	3-	3-	1-	-4-	3-	2-	1-	-1-	1-	-	-	-	1.07
35-36.2959-103.6672-2-08-						0-N06043-09/23/76-14-	25-20.5-		-	-			8.1-	400-		6-1-1-	-	-	-1-	-2-		-4-	3-	1-	1-	-1-	1-	-	-	-	2.05
35-36.2883-103.6411-2-08-						0-N06044-09/23/76-14-	25-18.0-C-		-	-			7.4-	-		15-1-1-	-	-	-	-	-2-	-2-	3-	1-	1-	-1-	1-	-	-	-	2.04
35-36.2825-103.6078-2-08-						0-N06046-09/23/76-16-	26-21.0-		-	-			7.5-	800-		6-1-1-	-	-	3-	3-	1-	-4-	3-	2-	1-	-1-	1-	-	-	-	10.83
35-36.3067-103.6139-2-08-						0-N06048-09/24/76- 8-	17-19.0-		-	-			8.5-	350-		10-1-1-	-	-	3-	3-	1-	-4-	3-	1-	1-	-1-	1-	-	-	-	2.62
35-36.3206-103.5989-2-08-						0-N06049-09/24/76- 9-	18-19.5-		-	-			7.5-	700-		13-1-2-	-	-	3-	3-	1-	-4-	3-	1-	1-	-1-	1-	-	-	-	5.05
35-36.2808-103.5778-2-06-						0-N06051-09/24/76-10-	24-22.0-		-	-			7.3-	700-		7-1-1-	-	-	2-	3-	2-	3-	4-	3-	3-	1-	-1-	-	-	-	4.60
35-36.3325-103.6906-2-08-						0-N06053-09/24/76-14-	25-17.0-		-	-			7.1-	500-		6-1-6-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	-	-	-	1.91
35-36.3333-103.6411-2-08-						0-N06054-09/24/76-14-	24-18.0-		-	-			7.2-	600-		12-1-2-	-	-	-	-	-1-	-4-	3-	1-	2-	-1-	1-	-	-	-	9.10
35-36.3722-103.6758-2-08-						0-N06055-09/24/76-15-	26-22.5-		-	-			8.5-	300-		10-1-1-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	-	-	-	5.17
35-36.3250-103.5572-2-08-						0-N06056-09/24/76-15-	26-18.5-		-	-			7.7-	400-		13-1-2-	-	-	3-	3-	1-	-4-	2-	2-	2-	-1-	1-	-	-	-	0.77
35-36.2875-103.5544-2-06-						0-N06057-09/24/76-16-	23-21.5-C-		-	-			7.4-	500-		5-1-1-	-	-	2-	3-	3-	3-	4-	4-	3-	2-	-1-	-	-	-	2.87
35-36.3381-103.5308-2-08-						0-N06060-09/24/76-17-	19-19.0-		-	-			7.6-	500-		3-1-1-	-	-	-	-	-1-	-4-	2-	2-	2-	-1-	1-	-	-	-	3.17
35-36.3275-103.5222-2-08-						0-N06061-09/24/76-18-	21-18.2-		-	-			7.9-	350-		10-1-1-	-	-	-	-	-1-	-4-	2-	2-	2-	-1-	1-	-	-	-	1.56
35-36.3067-103.5050-2-08-						0-N06062-09/25/76-13-	26-22.0-C-		-	-			8.1-	350-		12-1-1-	-	-	1-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	1.08
35-36.4019-103.6192-2-08-						0-N06065-09/25/76-16-	20-18.5-		-	-			7.7-	300-		12-3-8-	-	-	3-	3-	1-	-4-	3-	3-	3-	-1-	1-	-	-	-	0.33
35-36.3744-103.5939-2-08-						0-N06067-09/26/76- 9-	14-15.0-		-	-			8.8-	1200-		8-1-6-	-	-	3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	1.13
35-36.4161-103.6156-2-08-						0-N06068-09/26/76-11-	16-21.0-		-	-			7.8-	1200-		6-1-1-	-	-	3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	1.31
35-36.4092-103.5925-2-08-						0-N06069-09/26/76-11-	17-19.0-		-	-			8.4-	350-		12-1-1-	-	-	1-	3-	2-	-4-	2-	2-	3-	-1-	1-	-	-	-	2.05
35-36.4192-103.5826-2-08-						0-N06070-09/26/76-12-	17-18.8-		-	-			7.7-	400-		7-1-1-	-	-	2-	3-	1-	-4-	2-	2-	2-	-1-	1-	-	-	-	2.05
35-36.4053-103.5453-2-08-						0-N06071-09/26/76-13-	20-22.0-		-	-			8.5-	400-		15-1-1-	-	-	2-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	2.46
35-36.4272-103.5342-2-08-						0-N06072-09/26/76-13-	20-18.0-		-	-			8.2-	375-		7-3-8-	-	-	2-	3-	1-	-4-	2-	2-	3-	-1-	1-	-	-	-	1.74
35-36.4519-103.5958-2-08-						0-N06074-09/26/76-15-	13-15.5-		-	-			7.7-	500-		13-3-8-	-	-	4-	3-	1-	-4-	2-	2-	3-	-1-	1-	-	-	-	0.10
35-36.4731-103.6030-2-08-						0-N06076-09/26/76-15-	13-17.5-		-	-			7.2-	400-		-3-8-	-	-	3-	3-	1-	-4-	3-	2-	4-	-1-	1-	-	-	-	0.59
35-36.6117-103.0526-2-08-						0-N06077-09/29/75-18-	18-16.5-		-	-			8.2-	210-		20-1-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	8-	-	-	-	0.10
35-36.6131-103.1103-2-08-						0-N06078-09/29/76-18-	16-16.1-C-		-	-			7.6-	300-		17-3-6-	-	-	-	-	-1-	-4-	2-	2-	1-	-3-	1-	-	-	-	3.98
35-36.6431-103.1130-2-08-						0-N06079-09/30/75-10-	23-17.3-		-	-			7.0-	300-		17-1-1-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	3-	-180-	140-	-	4.38
35-36.6392-103.1031-2-08-						0-N06080-09/30/76-11-	21-16.9-C-		-	-			7.8-	400-		93-1-1-	-	-	-	-	-1-	-4-	2-	2-	1-	-1-	1-	6-	240-	-	1.14
35-36.6414-103.0978-2-08-						0-N06081-09/30/75-11-	26-18.7-		-	-			6.9-	310-		13-1-1-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	2-	6-	-	-	4.04
35-36.6558-103.0742-2-08-						0-N06082-09/30/76-12-	32-19.8-		-	-			7.4-	370-		13-1-1-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	2-	6-	140-	130-	5.76
35-36.6544-103.0556-2-08-						0-N06083-09/30/75-12-	24-18.1-C-		-	-			7.5-	400-		12-1-1-	-	-	-	-	-1-	-4-	2-	2-	1-	-1-	1-	6-	-	-	5.39
35-36.6567-103.0314-2-08-						0-N06084-09/30/75-12-	26-19.2-		-	-			7.6-	400-		17-1-1-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	2-	6-	-	-	2.68
35-36.6428-103.0497-2-08-						0-N06085-09/30/75-13-	27-21.2-		-	-			7.6-	400-		6-1-1-	-	-	-	-	-1-	-4-	2-	2-	1-	-1-	2-	6-	140-	-	1.07
35-36.6628-103.0497-2-08-						0-N06086-09/30/75-13-	28-19.1-C-		-	-			7.9-	900-		20-1-1-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	10-	-	-	8.51
35-36.0311-103.8936-2-08-						0-N06087-09/20/76- 7-	14-15.0-		-	-			6.8-	1800-		-1-1-	-	-	-	-	-1-	-4-	4-	3-	2-	-1-	1-	-160-		-	47.18*
35-36.0033-103.8517-2-08-						0-N06088-09/20/76- 8-	14-13.2-		-	-			7.4-	500-		-1-1-	-	-	-	-	-1-	-4-	4-	3-	2-	-1-	1-	-	-	-	4.21
35-36.0353-103.8478-2-08-						0-N06089-09/20/76- 8-	14-14.0-		-	-			7.4-	370-		-1-9-	-	-	-	-	-1-	-4-	4-	1-	2-	-1-	1-	6-	-	-	2.96
35-36.0694-103.8851-2-08-						0-N06090-09/20/76- 9-	16-14.2-		-	-			7.6-	363-		-1-2-	-	-	-	-	-1-	-4-	4-	1-	2-	-	-1-	6-	-	-	2.55
35-36.0533-103.9178-2-08-						0-N06091-09/20/76- 9-	17-14.2-		-	-			8.0-	365-		-1-1-	-	-	-	-	-1-	-4-	4-	1-	3-	-1-	1-	6-	-	-	3.84
35-36.0742-103.9361-2-08-						0-N06092-09/20/76- 9-	16-14.4-		-	-			8.2-	325-		-1-1-	-	-	-	-	-1-	-4-	4-	1-	3-	-1-	1-	6-	-	-	3.26
35-36.0611-103.9050-2-08-						0-N06093-09/20/76-10-	16-13.5-		-	-			8.3-	400-		-1-1-	-	-	-	-	-5-	-4-	4-	1-	3-	-1-	1-	-	-	-	3.14
35-36.1003-103.8906-2-08-						0-N06094-09/20/76-10-	18-15.8-		-	-			8.3-	463-		-1-1-	-	-	-	-	-5-	-4-	4-	2-	3-	-1-	1-	7-	-	-	3.91
35-36.1042-103.9208-2-08-						0-N06095-09/20/76-10-	16-15.0-		-	-			8.3-	352-		-1-1-	-	-	-	-	-1-	-4-	3-	2-	3-	-1-	-	6-	-	-	2.52
35-36.1142-103.9581-2-08-						0-N06096-09/20/76-11-	17-16.8-		-	-			6.8-	288-		-1-1-	-	-	-	-	-1-	-4-	3-	1-	3-	-1-	-	-	-	-	2.38
35-36.0881-103.9950-2-06-						0-N06097-09/20/76-12-	16-16.2-		-	-			7.2-	382-		-1-1-	-	-	-	-	-1-	-4-	3-	3-	3-	-1-	1-	6-	-	-	4.41
35-36.1328-103.9858-2-08-						0-N06098-09/20/76-12-	20-16.2-		-	-			7.7-	305-		-3-8-	-	-	-	-	-5-	-4-	3-	3-	3-	-1-	1-	5-	-	-	2.08
35-36.4928-103.9172-2-08-						0-N06099-09/22/76-13-	21-17.0-		-	-			7.5-	440-		-1-1-	-	-	-	-	-1-	-4-	2-	2-	2-	-1-	1-	6-	-	-	7.39
35-36.2719-103.8614-2-08-						0-N06100-09/21/76- 8-	16-16.2-		-	-			7.3-	420-		-1-1-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	6-	-	-	0.33
35-36.2533-103.7994-2-08-						0-N06101-09/21/76- 7-	15-16.0-		-	-			7.3-	390-		-1-1-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	6-	-	-	7.24

APPENDIX I-A. (continued). Uranium Concentrations for Water 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)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
35-36.3186-103.9372-2-08-						0-N06102-09/21/76- 9-			21-17.0-		-	-	6.8-	470-		-1-1-		-	-	-	-	-1-	-4-3-2-1-		-1-1-		-	-	-	2.74
35-36.3231-103.9022-2-08-						0-N06103-09/21/76-10-			21-17.5-		-	-	7.3-	330-		-1-1-		-	-	-	-	-1-	-4-3-2-1-		-1-1-	6-	-	-	-	1.67
35-36.3089-103.8717-2-08-						0-N06104-09/21/76-10-			21-17.5-		-	-	6.9-	350-		-1-1-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-	-	-	-	3.40
35-36.3172-103.9719-2-08-						0-N06105-09/21/76-11-			19-18.5-		-	-	7.5-	500-		-1-1-		-	-	-	-	-1-	-4-3-2-1-		-1-4-	6-145-		-	-	3.66
35-36.2850-103.9825-2-08-						0-N06106-09/21/76-12-			21-18.5-		-	-	7.6-	420-		-1-1-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6- 95-		-	-	2.94
35-36.2750-103.9208-2-08-						0-N06107-09/21/76-12-			21-19.0-		-	-	7.5-	500-		-1-1-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-	-	-	-	2.43
35-36.3069-103.9344-2-08-						0-N06108-09/21/76-15-			22-18.2-		-	-	7.6-	400-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	3.08
35-36.3517-103.9861-2-08-						0-N06109-09/21/76-16-			23-19.0-		-	-	7.8-	550-		-1-1-		-	-	-	-	-1-	-4-3-2-2-		-1-1-	6-	-	-	-	4.02
35-36.3919-103.9544-2-08-						0-N06110-09/21/76- 8-			17-17.0-		-	-	7.6-	550-		-1-1-		-	-	-	-	-1-	-4-3-2-2-		-1-1-	6-	-	-	-	3.54
35-36.4247-103.9458-2-08-						0-N06111-09/22/76- 9-			19-16.5-		-	-	7.5-	460-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	3.46
35-36.4203-103.9131-2-08-						0-N06112-09/22/76- 9-			19-16.2-		-	-	7.3-	420-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	3.07
35-36.4456-103.8881-2-08-						0-N06113-09/22/76- 9-			19-16.2-		-	-	7.2-	520-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	C.1C
35-36.4575-103.8744-2-08-						0-N06114-09/22/76-10-			19-17.0-		-	-	7.3-	600-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	2.16
35-36.4669-103.8647-2-08-						0-N06115-09/22/76-11-			21-16.2-		-	-	7.6-	500-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	2.68
35-36.4669-103.8358-2-08-						0-N06116-09/22/76-11-			22-16.5-		-	-	7.5-	390-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	0.10
35-36.4983-103.9600-2-08-						0-N06117-09/22/76-12-			21-18.0-		-	-	7.7-	1100-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-530-		-	-	2.52
35-36.9181-103.7064-2-C6-						0-N06118-10/07/76-12-			1-15.2-		-	-	7.9-	1275-		-3-8-		-	-2-2-1-		-2-3-4-5-		-3-	-	-	-	-	12.91
35-36.4886-103.8939-2-C8-						0-N06119-09/22/76-13-			22-17.5-		-	-	7.2-	410-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	23.81
35-36.4714-103.9789-2-08-						0-N06120-09/22/76-14-			22-16.8-		-	-	7.6-	420-		-1-1-		-	-	-	-	-1-	-4-2-3-2-		-1-1-	8-	-	-	-	2.13
35-36.1747-103.9919-2-08-						0-N06121-09/20/76-13-			20-16.8-		-	-	8.4-	280-		-1-1-		-	-	-	-	-5-	-4-3-3-3-		-1-1-	-	-	-	-	2.60
35-36.0400-103.9428-2-07-						0-N06122-09/20/76-15-			18-16.2-		-	-	7.0-	380-		-1-1-5-8-3-2-1-2-6-2-3-2-										-1-	-	-	-	-	5.28
35-36.0497-103.9847-2-08-						0-N06123-09/20/76-15-			22-18.5-		-	-	8.0-	420-		-1-1-		-	-	-	-	-1-	-4-4-3-2-		-1-2-	-	-	-	-	5.36
35-36.0117-103.9642-2-08-						0-N06124-09/20/76-17-			19-19.8-		-	-	8.2-	1400-		-1-1-		-	-	-	-	-5-	-4-3-1-2-		-1-1-	-	-	-	-	0.84
35-36.0264-103.9836-2-08-						0-N06125-09/20/76-19-			15-18.2-		-	-	8.2-	445-		-1-1-		-	-	-	-	-1-	-4-4-1-2-		-1-1-	-	-	-	-	5.38
35-36.0103-103.9350-2-08-						0-N06126-09/20/76-18-			20-18.2-		-	-	7.4-	455-		-1-1-		-	-	-	-	-5-	-4-3-1-3-		-1- -10-		-	-	-	1.86
35-36.4533-103.9619-2-08-						0-N06127-09/21/76-18-			22-17.0-		-	-	7.4-	600-		-3-8-		-	-	-	-	-1-	-4-2-3-3-		-1-1-	8-	-	-	-	1.91
35-36.4439-103.9153-2-08-						0-N06128-09/21/76-18-			20-16.2-		-	-	7.5-	390-		-3-8-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	1.69
35-36.4428-103.7897-2-08-						0-N06129-09/22/76-18-			21-18.2-C-		-	-	7.6-	580-		-1-1-		-	-	-	-	-2-	-4-2-2-2-		-1-1-	6-	-	-	-	2.15
35-36.4514-103.8183-2-08-						0-N06130-09/22/76-18-			22-17.5-		-	-	7.3-	600-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	3.40
35-36.4358-103.8733-2-08-						0-N06131-09/22/76-19-			20-18.0-C-		-	-	8.0-	380-		-1-1-		-	-	-	-	-2-	-4-2-2-2-		-1-1-	6-	-	-	-	2.70
35-36.4714-103.7719-2-08-						0-N06132-09/23/76- 7-			16-15.5-		-	-	7.4-	480-		-1-1-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-	-	-	-	0.33
35-36.4964-103.8219-2-08-						0-N06133-09/23/76- 8-			17-15.8-		-	-	7.2-	500-		-1-1-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-	-	-	-	0.68
35-36.4839-103.7939-2-08-						0-N06134-09/23/76- 9-			19-15.5-		-	-	7.3-	500-		-1-1-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-	-	-	-	4.00
35-36.4858-103.8669-2-08-						0-N06135-09/23/76- 9-			22-17.2-		-	-	7.2-	300-		-1-1-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-	-	-	-	1.00
35-36.4092-103.8531-2-08-						0-N06136-09/23/76-11-			22-17.2-		-	-	7.0-	340-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	4.52
35-36.3786-103.8103-2-08-						0-N06137-09/23/76-11-			23-17.0-		-	-	7.6-	310-		-1-1-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-	-	-	-	0.75
35-36.4119-103.8144-2-08-						0-N06138-09/23/76-12-			23-18.0-		-	-	7.4-	430-		-1-1-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-	-	-	-	3.21
35-36.3928-103.8633-2-08-						0-N06139-09/23/76-12-			24-18.0-		-	-	7.2-	310-		-1-1-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-	-	-	-	2.CC
35-36.3069-103.8114-2-08-						0-N06140-09/23/76-15-			24-19.0-		-	-	7.2-	330-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	2.00
35-36.3119-103.7775-2-08-						0-N06141-09/23/76-16-			24-19.5-		-	-	7.2-	340-		-1-1-		-	-	-	-	-1-	-4-2-2-2-		-1-1-	6-	-	-	-	3.26
35-36.3631-103.7875-2-08-						0-N06142-09/23/76-18-			22-18.5-		-	-	7.C-	280-		-3-8-		-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-	-	-	-	2.30
35-36.3611-103.7622-2-08-						0-N06143-09/23/76-18-			22-20.0-		-	-	7.6-	340-		-3-8-		-	-	-	-	-	-4-2-3-1-		-1-1-	6-	-	-	-	0.58
35-36.7114-103.7867-2-08-						0-N06144-09/24/76-17-			20-18.2-		-	-	6.6-	230-		-1-1-		-	-	-	-	-1-	-4-3-2-2-		-1-1-	-	-	-	-	0.38
35-36.6397-103.8097-2-08-						0-N06146-09/24/76-14-			23-18.0-		-	-	7.6-	325-		-1-1-		-	-	-	-	-1-	-4-2-3-2-		-1-1-	8-	-	-	-	1.14
35-36.6393-103.8464-2-08-						0-N06147-09/24/76-15-			23-18.5-		-	-	7.3-	240-		-3-7-		-	-	-	-	-1-	-4-2-3-2-		-1-1-	6-	-	-	-	1.26
35-36.6433-103.8378-2-08-						0-N06148-09/24/76-15-			21-17.2-		-	-	7.6-	380-		-1-1-		-	-	-	-	-1-	-4-3-3-2-		-1-1-	-	-	-	-	2.62
35-36.6578-103.7794-2-08-						0-N06149-09/24/76-16-			22-18.8-		-	-	7.0-	220-		-1-1-		-	-	-	-	-1-	-4-2-3-3-		-1-1-	6-	-	-	-	2.44
35-36.6456-103.7714-2-08-						0-N06150-09/24/76-16-			21-18.0-		-	-	7.2-	450-		-1-1-		-	-	-	-	-1-	-4-2-3-3-		-1-1-	-	-	-	-	0.60
35-36.6867-103.8022-2-C8-						0-N06151-09/24/76-17-			21-18.0-		-	-	7.1-	225-		-1-1-		-	-	-	-	-1-	-4-2-3-3-		-1-1-	6-	-	-	-	0.86
35-36.7122-103.8033-2-08-						0-N06153-09/24/76-17-			21-19.0-		-	-	6.9-	210-		-1-1-		-	-	-	-	-1-	-4-2-3-3-		-1-1-	6-	-	-	-	0.42
35-36.7328-103.8186-2-08-						0-N06154-09/24/76-18-			20-18.0-		-	-	6.9-	290-		-1-1-		-	-	-	-	-1-	-4-2-3-3-		-1-1-	6-	-	-	-	0.36

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (µmho/cm)	CONTAMINATED (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
35-	36.7250-	103.8083-	2-	08-		0-N06155-	09/24/76-18-		19-	17.5-	-	-	6.6-	270-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	1-	6-		-	-	0.15
35-	36.7422-	103.8096-	2-	08-		0-N06156-	09/24/76-18-		19-	17.0-	-	-	6.7-	350-		-1-	1-	-	-	-	-	-1-	-4-	2-	2-	3-	-1-	1-	6-		-	-	2.52
35-	36.7417-	103.7886-	2-	08-		0-N06157-	09/24/76-19-		20-	17.0-	-	-	6.9-	520-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	1-	6-		-	-	0.76
35-	36.7336-	103.7728-	2-	08-		0-N06158-	09/25/76- 8-		18-	16.0-	0-	-	6.9-	280-		-1-	1-	-	-	-	-	-1-	-4-	2-	2-	3-	-1-	1-	6-		-	-	3.45
35-	36.7428-	103.7661-	2-	08-		0-N06159-	09/25/76- 8-		19-	16.0-	-	-	7.2-	370-		-1-	1-	-	-	-	-	-1-	-4-	2-	2-	3-	-1-	1-	6-		-	-	2.66
35-	36.7306-	103.8131-	2-	08-		0-N06160-	09/25/76- 9-		18-	16.5-	-	-	6.9-	420-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	1-	6-		-	-	1.60
35-	36.7033-	103.7550-	2-	08-		0-N06161-	09/25/76- 9-		19-	16.7-	-	-	6.9-	230-		-1-	1-	-	-	-	-	-1-	-4-	2-	2-	3-	-1-	1-	6-		-	-	0.62
35-	36.7133-	103.7575-	2-	08-		0-N06162-	09/25/76- 9-		20-	16.5-	-	-	6.9-	320-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	1-	6-		-	-	1.78
35-	36.7414-	103.9300-	2-	08-		0-N06163-	09/25/76-11-		21-	16.2-	-	-	7.4-	700-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	1-	8-		-	-	6.65
35-	36.7494-	103.9406-	2-	08-		0-N06164-	09/25/76-11-		21-	16.7-	-	-	7.1-	600-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	1-	6-		-	-	4.35
35-	36.7331-	103.9408-	2-	08-		0-N06165-	09/25/76-12-		21-	16.8-	-	-	7.2-	600-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	1-	6-		-	-	2.91
35-	36.7236-	103.9353-	2-	08-		0-N06166-	09/25/76-12-		21-	17.0-	-	-	7.5-	800-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	1-	6-		-	-	2.68
35-	36.7106-	103.9531-	2-	08-		0-N06167-	09/25/76-12-		22-	17.0-	-	-	7.0-	420-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	1-	6-		-	-	3.53
35-	36.7186-	103.9583-	2-	08-		0-N06168-	09/25/76-12-		23-	17.2-	-	-	7.2-	370-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	1-	6-		-	-	1.47
35-	36.7406-	103.9592-	2-	08-		0-N06169-	09/25/76-13-		23-	17.0-	-	-	7.2-	500-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	1-	6-		-	-	5.77
35-	36.7428-	103.9943-	2-	08-		0-N06170-	09/25/76-13-		23-	16.5-	-	-	7.2-	600-		-1-	1-	-	-	-	-	-1-	-4-	3-	3-	2-	-1-	4-	6-		-	-	6.87
35-	36.7256-	103.9900-	2-	08-		0-N06171-	09/25/76-15-		21-	18.0-	-	-	7.2-	650-		-1-	7-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	-	6-		-	-	3.69
35-	36.6956-	103.9894-	2-	08-		0-N06172-	09/25/76-15-		21-	17.8-	-	-	7.2-	650-		-1-	7-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	1-	6-		-	-	0.81
35-	36.6914-	103.9533-	2-	08-		0-N06173-	09/25/76-16-		21-	16.5-	-	-	7.0-	520-		-1-	1-	-	-	-	-	-1-	-4-	2-	2-	3-	-1-	1-	6-		-	-	5.23
35-	36.6869-	103.9285-	2-	08-		0-N06174-	09/25/76-16-		20-	17.0-	-	-	7.1-	450-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	1-	6-		-	-	3.59
35-	36.6708-	103.9550-	2-	08-		0-N06175-	09/25/76-17-		23-	16.2-	-	-	7.0-	1500-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	4-	6-	40-	-	-	5.89
35-	36.6692-	103.9550-	2-	08-		0-N06176-	09/25/76-17-		20-	17.8-	-	-	7.0-	700-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	2-	-1-	4-	6-	75-	50-		2.95
35-	36.6672-	103.9308-	2-	08-		0-N06177-	09/25/76-17-		19-	17.5-	-	-	7.2-	600-		-1-	1-	-	-	-	-	-1-	-4-	3-	3-	2-	-1-	1-	6-		-	-	3.08
35-	36.6686-	103.8933-	2-	08-		0-N06178-	09/25/76-18-		19-	17.5-	-	-	6.8-	220-		-1-	1-	-	-	-	-	-1-	-4-	3-	3-	3-	-1-	1-	6-		-	-	0.74
35-	36.7431-	103.8825-	2-	08-		0-N06179-	09/26/76- 9-		18-	15.2-	-	-	6.9-	340-		-1-	1-	-	-	-	-	-1-	-4-	3-	3-	3-	-1-	-	-		-	-	4.26
35-	36.6119-	103.9588-	2-	08-		0-N06180-	09/26/76-11-		18-	16.5-	-	-	6.8-	550-		-1-	7-	-	-	-	-	-1-	-4-	4-	4-	3-	-1-	4-	6-		-	-	1.60
35-	36.6119-	103.9883-	2-	08-		0-N06181-	09/26/76-11-		20-	16.2-	-	-	7.0-	440-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	1-	6-		-	-	3.74
35-	36.6181-	103.9317-	2-	08-		0-N06182-	09/26/76-12-		20-	17.0-	-	-	7.1-	1200-		-1-	7-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	4-	6-		-	-	0.10
35-	36.5978-	103.9908-	2-	08-		0-N06183-	09/26/76-13-		19-	16.2-	-	-	7.1-	380-		-1-	1-	-	-	-	-	-1-	-4-	3-	3-	3-	-1-	2-	6-	195-	-	-	1.54
35-	36.5969-	103.9897-	2-	08-		0-N06184-	09/26/76-13-		20-	16.5-	-	-	7.6-	500-		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	1.88
35-	36.5889-	103.9561-	2-	08-		0-N06185-	09/26/76-13-		20-	16.5-	-	-	7.4-	420-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	4-	-1-	1-	6-		-	-	2.02
35-	36.5442-	103.9447-	2-	08-		0-N06186-	09/26/76-14-		19-	17.0-	-	-	7.7-	370-		-1-	1-	-	-	-	-	-1-	-4-	3-	3-	3-	-1-	2-	6-	42-	-	-	1.99
35-	36.5639-	103.9528-	2-	08-		0-N06187-	09/26/76-15-		19-	17.2-	0-	-	8.2-	700-		-1-	1-	-	-	-	-	-1-	-4-	4-	3-	4-	-1-	1-	6-		-	-	0.17
35-	36.5689-	103.9816-	2-	08-		0-N06188-	09/26/76-15-		18-	16.2-	-	-	7.7-	500-		-1-	1-	-	-	-	-	-1-	-4-	3-	3-	4-	-1-	1-	6-		-	-	1.58
35-	36.5814-	103.6139-	2-	08-		0-N06189-	09/27/76-17-		13-	14.0-	-	-	7.7-	340-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	4-	-1-	1-	6-		-	-	1.49
35-	36.5892-	103.5947-	2-	08-		0-N06190-	09/28/76- 8-		13-	14.0-	-	-	7.8-	300-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	1-	6-		-	-	1.21
35-	36.5753-	103.6136-	2-	08-		0-N06191-	09/28/76- 8-		13-	16.0-	-	-	7.7-	320-		-1-	1-	-	-	-	-	-1-	-4-	3-	3-	4-	-1-	4-	6-		-	-	1.47
35-	36.5681-	103.6136-	2-	08-		0-N06192-	09/28/76- 9-		14-	13.1-	-	-	7.2-	700-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	1-	6-		-	-	0.10
35-	36.5556-	103.6125-	2-	08-		0-N06193-	09/28/76- 9-		14-	13.2-	-	-	6.2-	900-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	1-	6-		-	-	0.10
35-	36.5639-	103.5867-	2-	08-		0-N06194-	09/28/76-10-		14-	13.2-	-	-	7.5-	350-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	1-	6-		-	-	1.26
35-	36.5747-	103.5685-	2-	08-		0-N06195-	09/28/76-10-		16-	13.5-	-	-	8.2-	280-		-1-	1-	-	-	-	-	-1-	-4-	3-	3-	3-	-1-	1-	6-		-	-	1.16
35-	36.5394-	103.5225-	2-	08-		0-N06196-	09/28/76-11-		12-	9.0-	-	-	7.4-	390-		-1-	1-	-	-	-	-	-1-	-4-	2-	3-	3-	-1-	1-	6-		-	-	2.66
35-	36.5114-	103.5378-	2-	08-		0-N06197-	09/28/76-12-		8-	8.0-	-	-	8.5-	290-		-1-	1-	-	-	-	-	-1-	-4-	2-	2-	2-	-1-	1-	6-		-	-	1.86
35-	36.5033-	103.5272-	2-	08-		0-N06198-	09/28/76-12-		10-	11.5-	-	-	7.7-	330-		-1-	1-	-	-	-	-	-1-	-4-	2-	2-	2-	-1-	1-	6-		-	-	1.82
35-	36.0067-	103.4881-	2-	08-		0-N06199-	09/23/76-18-		24-	16.8-	-	-	7.8-	800-		5-	1-	1-	-	-	-	-1-	-4-	2-	2-	1-	-3-	1-	-		-	-	7.06
35-	36.0203-	103.4494-	2-	08-		0-N06200-	09/23/76-19-		19-	21.3-	-	-	7.6-	600-		9-	1-	1-	-	-	-	-1-	-4-	2-	3-	1-	-3-	1-	8-		-	-	6.05
35-	36.0067-	103.2672-	2-	08-		0-N06201-	09/24/76-11-		26-	18.0-	-	-	7.7-	800-		7-	1-	1-	-	-	-	-1-	-4-	2-	1-	1-	-3-	1-	8-		-	-	9.27
35-	36.0028-	103.2978-	2-	08-		0-N06202-	09/24/76-11-		26-	20.2-	-	-	8.9-	600-		13-	1-	1-	-	-	-	-1-	-4-	2-	1-	1-	-3-	1-	-		-	-	5.53
35-	36.0106-	103.3347-	2-	08-		0-N06203-	09/24/76-12-		26-	19.0-	-	-	8.1-	700-		12-	1-	1-	-	-	-	-1-	-4-	2-	1-	1-	-3-	1-	-		-	-	3.69
35-	36.0142-	103.3836-	2-	08-		0-N06204-	09/24/76-13-		28-	17.9-	-	-	7.7-	650-		15-	1-	1-	-	-	-	-1-	-4-	2-	1-	1-	-3-	1-	-		-	-	6.88
35-	36.0009-	103.3656-	2-	08-		0-N06205-	09/24/76-12-		26-	17.6-	-	-	7.8-	900-		13-	1-	1-	-	-	-	-1-	-4-	2-	2-	1-	-3-	1-	-		-	-	7.28

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
35-	36.0047-	103.4108-2-08-				0-N06206-	09/24/76-13-		28-	17.2-	-	-	8.1-	575-	5-	1-	1-	-	-	-	-1-	-4-	3-	-1-	-3-	1-	-	-	-		7.10
35-	36.0183-	103.4278-2-08-				0-N06207-	09/24/76-14-		28-	22.0-	-	-	8.5-	500-	9-	1-	1-	5-	6-	3-	2-	2-	-4-	4-	3-	1-	-3-	-	-	-	-		2.61
35-	36.0469-	103.4167-2-08-				0-N06208-	09/24/76-15-		28-	22.8-	-	-	8.0-	400-	4-	1-	1-	5-	7-	2-	2-	3-	-4-	4-	3-	1-	-3-	-	-	-	-		4.90
35-	36.0233-	103.2958-2-08-				0-N06209-	09/24/76-16-		28-	16.2-	-	-	8.1-	900-	11-	1-	1-	-	-	-	-1-	-4-	2-	1-	1-	-3-	1-	8-	-	-		11.06
35-	36.0250-	103.2714-2-08-				0-N06210-	09/24/76-17-		28-	18.8-	-	-	8.4-	2200-	6-	1-	1-	-	-	-	-2-	-4-	2-	2-	1-	-3-	1-	-	-	-	-		2.62
35-	36.1181-	103.2856-2-08-				0-N06211-	09/24/76-18-		20-	16.2-	-	-	7.6-	800-	6-	1-	4-	-	-	-	-1-	-4-	2-	2-	1-	-3-	1-	-	-	-	-		31.62
35-	36.1194-	103.2850-2-06-				0-N06212-	09/24/76-19-		20-	20.1-	-	-	8.3-	800-	3-	1-	4-	5-	4-	2-	2-	3-	-4-	2-	2-	1-	-3-	-	-	-	-		6.42
35-	36.3589-	103.4764-2-08-				0-N06213-	09/28/76-11-		7-	13.2-	-	-	7.9-	375-	10-	1-	1-	-	-	-	-1-	-4-	2-	4-	3-	-	-1-	10-	-	-		0.86
35-	36.3428-	103.4972-2-08-				0-N06214-	09/28/76-11-		7-	13.1-	-	-	8.1-	350-	11-	1-	1-	-	-	-	-1-	-4-	2-	2-	3-	-	-1-	-	-	-	-		0.99
35-	36.3686-	103.3417-2-08-				0-N06215-	09/28/76-12-		8-	13.8-	-	-	7.6-	1000-	11-	1-	1-	-	-	-	-1-	-3-	3-	2-	3-	-3-	1-	-	-	-	-		7.48
35-	36.3633-	103.3222-2-08-				0-N06216-	09/28/76-12-		8-	13.5-	-	-	7.7-	600-	9-	1-	1-	-	-	-	-1-	-4-	3-	3-	3-	-	-1-	-	-	-	-		6.50
35-	36.3500-	103.3386-2-08-				0-N06217-	09/28/76-13-		11-	14.9-	-	-	7.8-	350-	5-	1-	1-	-	-	-	-1-	-4-	3-	4-	3-	-3-	1-	-	-	-	-		2.69
35-	36.3494-	103.2958-2-08-				0-N06218-	09/28/76-13-		10-	15.0-	-	-	7.7-	350-	4-	1-	1-	-	-	-	-1-	-4-	2-	3-	3-	-3-	1-	-	-	-	-		2.79
35-	36.3408-	103.2572-2-08-				0-N06219-	09/28/76-14-		9-	11.5-	-	-	8.6-	250-	15-	3-	8-	-	-	-	-1-	-4-	2-	1-	2-	-3-	1-	-	-	-	-		4.30
35-	36.0458-	103.5222-2-08-				0-N06220-	09/23/76-11-		24-	16.3-	-	-	7.1-	650-	3-	1-	1-	-	-	-	-1-	-3-	2-	2-	1-	-1-	1-	4-	-	-	-		5.86
35-	36.0556-	103.8289-2-08-				0-N06221-	09/21/76-12-		24-	18.5-	-	-	8.2-	360-	-1-	1-	-	-	-	-	-1-	-4-	3-	3-	1-	-1-	1-	-	-	-	-		3.01
35-	36.0544-	103.7856-2-08-				0-N06222-	09/21/76-12-		24-	18.2-	-	-	8.2-	430-	-1-	1-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	-	-	-	-		3.17
35-	36.0336-	103.7842-2-08-				0-N06223-	09/21/76-12-		24-	19.5-	-	-	8.0-	428-	-3-	8-	-	-	-	-	-5-	-4-	2-	4-	1-	-1-	1-	-	-	-	-		3.09
35-	36.0753-	103.7978-2-08-				0-N06224-	09/21/76-13-		24-	22.4-	-	-	8.4-	580-	-1-	9-	-	-	-	-	-1-	-4-	3-	2-	2-	-1-	-10-	-	-	-	-		3.58
35-	36.0861-	103.8650-2-08-				0-N06225-	09/21/76-13-		26-	18.2-	-	-	8.6-	388-	-3-	8-	-	-	-	-	-1-	-4-	3-	2-	2-	-1-	1-	-	-	-	-		4.47
35-	36.1072-	103.8339-2-08-				0-N06226-	09/21/76-14-		26-	16.0-	-	-	8.8-	455-	-1-	7-	-	-	-	-	-1-	-4-	3-	1-	2-	-1-	1-	-	-	-	-		4.93
35-	36.1169-	103.8022-2-08-				0-N06227-	09/21/76-14-		28-	16.0-	-	-	7.2-	500-	-3-	-	-	-	-	-	-	-	-4-	3-	2-	2-	-1-	-	6-	-	-		0.10
35-	36.1153-	103.8653-2-08-				0-N06228-	09/21/76-15-		26-	16.5-	-	-	7.4-	850-	-4-	-	-	-	-	-	-	-	-4-	3-	1-	2-	-1-	1-	6-	-	-		7.94
35-	36.0656-	103.7603-2-07-				0-N06229-	09/21/76-18-		22-	21.2-	-	-	8.2-	490-	-1-	1-	4-	1-	3-	2-	2-	2-	3-	2-	4-	3-	-1-	-	-	-	-		1.57
35-	36.1600-	103.4958-2-08-				0-N06230-	09/22/76-16-		28-	15.8-	-	-	6.6-	590-	-1-	1-	-	-	-	-	-1-	-4-	3-	3-	2-	-1-	1-	6-	-	-	-		8.04
35-	36.1481-	103.4744-2-08-				0-N06231-	09/22/76-17-		28-	19.2-	-	-	8.0-	2100-	-1-	1-	-	-	-	-	-1-	-4-	3-	1-	2-	-1-	1-	6-	-	-	-		1.49
35-	36.1272-	103.4719-2-08-				0-N06232-	09/22/76-17-		26-	19.8-	-	-	8.2-	1320-	-1-	1-	-	-	-	-	-1-	-4-	3-	2-	2-	-1-	1-	6-	-	-	-		8.12
35-	36.1325-	103.4933-2-08-				0-N06233-	09/22/76-18-		23-	17.8-	-	-	8.0-	2550-	-1-	1-	-	-	-	-	-1-	-4-	3-	3-	2-	-1-	1-	6-	-	-	-		5.71
35-	36.2089-	103.4892-2-08-				0-N06234-	09/22/76-18-		20-	15.8-	-	-	7.9-	620-	-1-	1-	-	-	-	-	-1-	-4-	3-	2-	2-	-1-	1-	-	-	-	-		8.08
35-	36.1747-	103.4900-2-08-				0-N06235-	09/22/76-19-		22-	14.2-	-	-	7.8-	690-	-1-	1-	-	-	-	-	-1-	-4-	3-	3-	2-	-1-	1-	6-	-	-	-		9.45
35-	36.1556-	103.3908-2-08-				0-N06236-	09/23/76-14-		28-	18.2-	-	-	6.3-	500-	-1-	1-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	6-	-	-	-		1.98
35-	36.1303-	103.4117-2-08-				0-N06237-	09/23/76-14-		28-	22.2-	-	-	6.3-	700-	-1-	1-	-	-	-	-	-2-	-4-	3-	2-	1-	-1-	1-	6-	-	-	-		3.30
35-	36.1392-	103.4217-2-08-				0-N06238-	09/23/76-14-		26-	18.2-	-	-	7.3-	610-	-1-	1-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	6-	-	-	-		1.46
35-	36.1364-	103.4369-2-08-				0-N06239-	09/23/76-15-		28-	28.2-	-	-	7.3-	600-	-1-	-	-	-	-	-	-1-	-4-	3-	2-	1-	-1-	1-	6-	-	-	-		0.23
35-	36.1581-	103.4175-2-08-				0-N06240-	09/23/76-15-		29-	20.0-	-	-	7.6-	610-	-1-	1-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	-	-	-	-		5.52
35-	36.1639-	103.4633-2-08-				0-N06241-	09/23/76-16-		30-	19.2-	-	-	7.3-	600-	-1-	1-	-	-	-	-	-2-	-4-	3-	1-	1-	-1-	1-	5-	-	-	-		1.06
35-	36.1786-	103.4633-2-08-				0-N06242-	09/23/76-16-		28-	16.4-	-	-	7.2-	790-	-1-	1-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	6-	-	-	-		30.65
35-	36.2458-	103.4578-2-08-				0-N06244-	09/23/76-17-		25-	19.8-	-	-	7.9-	485-	-1-	1-	-	-	-	-	-1-	-4-	3-	3-	1-	-1-	1-	6-	-	-	-		2.07
35-	36.2247-	103.4181-2-06-				0-N06245-	09/23/76-18-		24-	17.8-	-	-	8.0-	485-	-1-	1-	6-	7-	1-	2-	2-	-	-4-	3-	3-	1-	-1-	-	-	-	-		6.49
35-	36.1744-	103.3967-2-08-				0-N06247-	09/25/76-17-		18-	16.0-	-	-	7.2-	720-	-1-	1-	-	-	-	-	-	-	-4-	3-	2-	3-	-1-	1-	-	-	-		0.37
35-	36.1883-	103.4225-2-08-				0-N06248-	09/25/76-17-		27-	18.8-	-	-	7.2-	1400-	-1-	1-	-	-	-	-	-1-	-4-	3-	1-	3-	-1-	1-	-	80-	-	-		7.29
35-	36.2003-	103.4106-2-08-				0-N06249-	09/25/76-17-		19-	15.9-	-	-	7.2-	725-	-1-	1-	-	-	-	-	-1-	-4-	3-	3-	3-	-1-	1-	-	-	-	-		7.34
35-	36.1653-	103.3683-2-06-				0-N06250-	09/25/76-18-		18-	18.2-	-	-	7.9-	505-	-1-	1-	5-	7-	2-	2-	3-	-	-4-	3-	3-	3-	-1-	-	-	-	-		4.85
35-	36.1803-	103.3506-2-06-				0-N06251-	09/24/76-11-		19-	18.2-	-	-	7.0-	610-	-1-	1-	4-	1-	1-	2-	1-	-	-4-	3-	2-	3-	-1-	-	-	-	-		2.81
35-	36.0708-	103.1753-2-08-				0-N06252-	09/22/76-14-		29-	15.2-	-	-	7.2-	690-	55-	1-	1-	-	-	-	-1-	-3-	2-	2-	1-	-1-	1-	6-	-	-	-		3.74
35-	36.0789-	103.1308-2-08-				0-N06253-	09/22/76-14-		28-	15.8-	-	-	7.4-	480-	27-	1-	1-	-	-	-	-1-	-3-	2-	2-	1-	-1-	1-	-	-	-	-		7.54
35-	36.1414-	103.1747-2-08-				0-N06254-	09/22/76-15-		28-	16.6-	-	-	7.0-	390-	-1-	1-	-	-	-	-	-1-	-4-	3-	1-	1-	-1-	1-	6-	-	-	-		3.85
35-	36.1517-	103.1867-2-08-				0-N06255-	09/22/76-16-		28-	16.4-	-	-	7.3-	440-	41-	1-	1-	-	-	-	-1-	-3-	3-	1-	1-	-1-	3-	4-	-	-	-		2.85
35-	36.1550-	103.1664-2-08-				0-N06256-	09/22/76-16-		28-	15.8-	-	-	7.4-	450-	27-	1-	1-	-	-	-	-1-	-4-	3-	1-	2-	-1-	1-	6-	-	-	-		2.85
35-	36.1731-	103.1525-2-08-				0-N06257-	09/22/76-16-		26-	15.6-	-	-	7.3-	350-	-1-	1-	-	-	-	-	-1-	-4-	2-	1-	2-	-1-	1-	6-	-	-	-		2.28
35-	36.1883-	103.1325-2-08-				0-N06258-	09/22/76-16-		26-	19.2-	-	-	8.5-	310-	55-	1-	1-	-	-	-	-1-	-4-	2-	1-	2-	-1-	1-	6-	-	-	-		1.75

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 GRADIENT	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
35-36.2417-103.2033-2-08-						0-N06259-09/22/76-17-			26-15.6-		-	-	7.5-	340-	27-1-1-	-	-	-	-	-1-	-4-3-1-1-	-1-1-	6-	-	-	2.82
35-36.2417-103.1675-2-08-						0-N06260-09/23/76-14-			31-21.0-		-	-	7.5-	320-	-1-1-	-	-	-	-	-1-	-4-2-2-1-	-1-1-	-	-	-	1.90
35-36.1911-103.2300-2-08-						0-N06261-09/23/76-16-			34-20.0-		-	-	7.3-	500-	-1-1-	-	-	-	-	-1-	-4-2-1-1-	-1-1-	6-	-	-	13.61
35-36.2017-103.1947-2-08-						0-N06262-09/23/76-17-			32-21.0-		-	-	7.6-	400-	-1-1-	-	-	-	-	-1-	-4-2-1-1-	-1-1-	6-	-	-	4.70
35-36.0819-103.5208-2-08-						0-N06263-09/23/76-11-			29-15.4-		-	-	7.2-	800-	4-1-6-	-	-	-	-	-1-	-3-2-2-1-	-1-1-	3-	-	-	7.00
35-36.0528-103.5511-2-08-						0-N06264-09/23/76-12-			29-19.9-		-	-	8.1-	1250-	3-1-6-	-	-	-	-	-1-	-3-2-3-1-	-1-1-	3-	-	-	7.27
35-36.0756-103.5100-2-08-						0-N06265-09/23/76-14-			29-15.9-		-	-	7.2-	490-	3-1-6-	-	-	-	-	-1-	-3-2-3-1-	-1-1-	3-	-	-	2.95
35-36.0364-103.5856-2-08-						0-N06266-09/23/76-17-			26-14.2-		-	-	7.8-	2100-	1-1-6-	-	-	-	-	-1-	-3-2-3-1-	-3-1-	3-	-	-	25.18
35-36.0403-103.6039-2-08-						0-N06267-09/24/76- 9-			27-17.9-		-	-	7.0-	800-	1-1-6-	-	-	-	-	-1-	-3-2-3-1-	-8-1-	3-	-	-	12.59
35-36.0606-103.6131-2-08-						0-N06268-09/24/76-10-			25-16.2-		-	-	6.9-	2600-	2-1-6-	-	-	-	-	-1-	-3-2-3-1-	-1-1-	3-	-	-	20.05
35-36.1014-103.5722-2-07-						0-N06269-09/24/76-13-			25-19.9-		-	-	6.9-	2200-	0-1-6-5-6-1-2-2-2-3-3-2-1-								-1-	-	-	-	3.08
35-36.1008-103.5972-2-07-						0-N06270-09/24/76-13-			31-20.1-		-	-	6.8-	300-	4-1-6-5-			-1-3-2-2-2-1-					-1-	-	-	-	0.93
35-36.1025-103.6069-2-08-						0-N06271-09/24/76-14-			24-16.1-		-	-	6.9-	750-	3-1-6-	-	-	-	-	-1-	-3-2-3-1-	-1-1-	8-	-	-	11.27
35-36.0942-103.5214-2-06-						0-N06272-09/24/76-16-			23-16.0-		-	-	6.8-	250-	4-1-1-5-	-	-	-	-	-1-	-3-3-2-1-	-1-1-	-	-	-	-	0.43
35-36.1789-103.5656-2-08-						0-N06273-09/25/76- 8-			18-14.9-		-	-	8.0-	2500-	4-1-6-	-	-	-	-	-1-	-3-2-2-2-	-3-1-	4-	-	-	3.65
35-36.9319-103.7383-2-08-						0-N06275-10/07/76-12-			1-15.4-		-	-	7.9-	1700-	-1-1-	-	-3-	-1-	-1-3-4-3-	-1-1-	5-	-	-	12.80*
35-36.2164-103.5656-2-08-						0-N06276-09/28/76-10-			6- 6.5-		-	-	7.2-	800-	2-1-1-	-	-	-	-	-1-	-3-2-1-1-	-1-1-	8-140-	40-		10.26
35-36.2467-103.6094-2-08-						0-N06277-09/28/76-12-			16-10.2-		-	-	6.9-	700-	3-1-1-	-	-	-	-	-1-	-3-2-1-1-	-1-	-	8-	-	-	5.36
35-36.2358-103.5636-2-08-						0-N06278-09/28/76-14-			17-15.3-		-	-	7.1-	800-	7-1-6-	-	-	-	-	-1-	-3-2-2-1-	-	-1-	6-	-	-	5.13
35-36.9711-103.6275-2-08-						0-N06279-10/07/76-13-			1-15.2-		-	-	7.9-	1500-	-1-1-	-	-3-	-1-	-4-3-4-5-	-1-3-	2-	57-		15.30*
35-36.3839-103.3400-2-08-						0-N06280-09/29/76-12-			21-14.2-		-	-	7.6-	400-	-1-1-	-	-2-	-1-	-4-3-2-1-	-1-1-	2-	-	-	-	1.32
35-36.3806-103.3661-2-08-						0-N06281-09/29/76-12-			22-14.9-		-	-	7.6-	500-	-1-1-	-	-2-	-1-	-4-3-2-1-	-1-1-	3-	-	-	-	4.25
35-36.3792-103.3014-2-06-						0-N06283-09/29/76-13-			24-11.3-		-	-	7.0-	4250-	-1-1-	-	-2-2-	-1-	-6-4-2-1-	-1-	-	-	-	-	256.80*
35-36.3975-103.2725-2-08-						0-N06284-09/29/76-14-			24-14.2-		-	-	7.3-	750-	-1-1-	-	-3-	-1-	-4-3-2-1-	-1-1-	6-100-			-	6.31
35-36.3939-103.3250-2-08-						0-N06285-09/29/76-12-			23-14.2-0-		-	-	7.7-	840-	-1-1-	-	-2-	-1-	-4-2-2-1-	-1-1-	3-	-	-	-	7.45
35-36.4225-103.2739-2-08-						0-N06286-09/29/76-14-			24-14.1-		-	-	8.1-	500-	-1-1-	-	-2-	-1-	-4-2-2-1-	-1-1-	6-	-	-	-	3.27
35-36.1308-103.5711-2-08-						0-N06287-09/25/76- 8-			20-16.1-		-	-	6.9-	850-	5-1-6-	-	-	-	-	-1-	-3-2-2-2-	-1-1-	4-	-	-	-	0.38
35-36.4233-103.3239-2-08-						0-N06288-09/29/76-14-			25-14.1-		-	-	7.6-	520-	-1-1-	-	-3-	-1-	-4-3-2-1-	-1-1-	6-	-	-	-	4.85
35-36.1017-103.4422-2-08-						0-N06289-09/25/76-15-			26-17.2-0-		-	-	8.3-	1075-	13-1-1-	-	-	-	-	-1-	-4-4-3-2-	- -9-		-	-	-	31.80
35-36.1078-103.4636-2-08-						0-N06290-09/25/76-17-			15-19.0-0-		-	-	8.4-	400-	9-1-1-	-	-2-2-2-			-4-3-4-2-	-3-9-		-	-	-	2.46
35-36.0814-103.2722-2-08-						0-N06291-09/26/76-13-			14-16.9-		-	-	7.5-	750-	9-1-1-	-	-	-	-	-1-	-4-2-2-1-	- -1-		-	-	-	25.86
35-36.0947-103.3139-2-08-						0-N06292-09/26/76-14-			17-17.1-		-	-	7.7-	1300-	4-1-1-	-	-	-	-	-1-	-4-4-4-1-	- -1-		-	-	-	6.42
35-36.0683-103.2919-2-08-						0-N06293-09/26/76-14-			17-16.5-		-	-	7.8-	2700-	9-1-1-	-	-	-	-	-1-	-4-3-2-2-	- -1-		-	-	-	3.22
35-36.1003-103.2561-2-08-						0-N06294-09/26/76-16-			17-16.5-		-	-	7.8-	950-	4-1-1-	-	-	-	-	-1-	-4-2-3-2-	- -1-	8-	-	-	-	26.89
35-36.3669-103.3981-2-08-						0-N06295-09/28/76-10-			7-13.7-		-	-	7.8-	400-	19-1-2-	-	-	-	-	-1-	-4-2-1-3-	-3-1-		-	-	-	3.21
35-36.3583-103.4417-2-08-						0-N06296-09/28/76-10-			5- 7.9-		-	-	7.6-	450-	16-3-8-	-	-	-	-	-1-	-4-2-2-3-	-3-1-		-	-	-	1.70
35-36.3492-103.4508-2-08-						0-N06297-09/28/76-11-			6-12.5-		-	-	7.7-	450-	7-1-1-	-	-	-	-	-1-	-4-2-3-3-	- -1-		-	-	-	4.65
35-36.3681-103.2753-2-08-						0-N06298-09/28/76-14-			10-14.8-		-	-	7.2-	600-	7-3-7-	-	-	-	-	-1-	-4-3-3-1-	- -1-		-	-	-	7.51
35-36.2931-103.2736-2-08-						0-N06299-09/28/76-16-			10-15.0-		-	-	7.3-	375-	4-1-1-	-	-	-	-	-1-	-3-2-3-1-	-3-1-		-	-	-	1.78
35-36.2550-103.3189-2-08-						0-N06300-09/28/76-16-			10-15.0-		-	-	7.5-	850-	13-1-1-	-	-	-	-	-1-	-4-2-1-1-	-3-1-		-	-	-	4.95
35-36.2683-103.3050-2-08-						0-N06301-09/28/76-17-			9-14.2-		-	-	7.5-	825-	7-1-1-	-	-	-	-	-1-	-4-3-1-1-	- -1-	6-	-	-	-	4.64
35-36.2822-103.3092-2-08-						0-N06302-09/29/76-10-			17-12.1-		-	-	7.7-	550-	7-1-1-	-	-	-	-	-1-	-4-2-2-1-	- -1-		-	-	-	0.56
35-36.3083-103.2686-2-08-						0-N06303-09/29/76-11-			17-16.2-		-	-	7.6-	350-	9-1-1-	-	-	-	-	-1-	-4-2-3-1-	-3-1-		-	-	-	3.18
35-36.1942-103.1686-2-08-						0-N06304-09/23/76-17-			30-15.9-		-	-	7.5-	370-	-1-1-	-	-	-	-	-1-	-4-2-1-1-	-1-1-	6-	-	-	-	2.91
35-36.1725-103.2069-2-08-						0-N06305-09/23/76-17-			29-16.3-		-	-	7.6-	420-	-1-1-	-	-	-	-	-1-	-4-2-1-1-	-1-1-	6-	-	-	-	4.26
35-36.1356-103.2428-2-08-						0-N06306-09/26/76-13-			22-14.3-		-	-	7.2-	700-	-1-1-	-	-	-	-	-1-	-4-2-2-2-	-1-1-	5-180-			-	5.58
35-36.1481-103.2236-2-08-						0-N06307-09/26/76-13-			22-16.2-		-	-	7.1-	500-	-1-1-	-	-	-	-	-1-	-4-2-2-2-	-1-1-	5-250-			-	5.89
35-36.1303-103.2036-2-08-						0-N06308-09/26/76-14-			22-15.4-		-	-	7.3-	460-	-1-1-	-	-	-	-	-1-	-4-2-1-2-	-1-1-	5-185-			-	3.16
35-36.1481-103.1128-2-08-						0-N06309-09/26/76-14-			20-15.5-		-	-	7.5-	370-	-1-1-	-	-	-	-	-1-	-4-2-1-2-	-1-1-	6-	-	-	-	2.32
35-36.1767-103.0606-2-08-						0-N06310-09/20/76-15-			20-16.5-		-	-	7.4-	350-	-1-1-	-	-	-	-	-1-	-4-3-1-2-	- -3-	6-180-		160-		3.08
35-36.1439-103.0439-2-08-						0-N06312-09/26/76-16-			18-17.6-		-	-	7.5-	360-	-1-1-	-	-	-	-	-1-	-4-2-1-3-	-1-2-	6-	-	-	-	2.85

APPENDIX I-A. (continued). Uranium Concentrations for Water 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)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
35-36.2217-103.1144-2-08-						0-N06313-09/27/76-17-			6-18.0-	-	-		7.9-	390-		-1-1-	-	-	-	-1-	-4-3-1-3-	-1-3-	-	-	-	3.16
35-36.2311-103.0881-2-08-						0-N06314-09/27/76-18-			5-13.8-	-	-		7.5-	340-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	6-	-	-	2.32
35-36.2378-103.0778-2-08-						0-N06315-09/27/76-18-			5-12.0-	-	-		7.7-	360-		-1-1-	-	-	-	-1-	-4-2-1-3-	-1-1-	6-	-	-	2.68
35-36.2389-103.0469-2-08-						0-N06316-09/27/76-19-			6-13.2-	-	-		7.5-	390-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	6-	-	-	3.52
35-36.1100-103.0464-2-08-						0-N06317-09/28/76-13-			9-14.2-	-	-		7.8-	350-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	6-	-	-	2.58
35-36.1072-103.0797-2-08-						0-N06318-09/28/76-14-			9-14.0-	-	-		7.5-	360-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	6-	-	-	4.13
35-36.1214-103.0775-2-08-						0-N06319-10/02/76-12-			20-15.8-	-	-		7.2-	340-		-1-1-	-	-	-	-1-	-4-3-2-3-	-1-3-	12-	350-	-	3.73
35-36.0817-103.0772-2-08-						0-N06320-10/02/76-12-			20-21.0-	-	-		7.8-	490-		-1-1-	-	-	-	-1-	-4-3-2-3-	-1-1-	6-	-	-	6.27
35-36.0864-103.0917-2-08-						0-N06321-10/02/76-12-			20-16.3-	-	-		7.4-	500-		-1-1-	-	-	-	-1-	-4-3-2-3-	-1-3-	6-	-	-	3.83
35-36.0806-103.0953-2-08-						0-N06322-10/02/76-12-			20-16.0-	-	-		7.4-	460-		-1-1-	-	-	-	-1-	-4-3-2-3-	-1-1-	6-	-	-	5.20
35-36.0600-103.0956-2-08-						0-N06323-10/02/76-13-			22-16.7-	-	-		7.4-	550-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-3-	6-	-	-	5.29
35-36.0539-103.1208-2-08-						0-N06324-10/02/76-13-			20-18.0-	-	-		7.7-	650-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	6-	120-	115-	5.45
35-36.0603-103.0706-2-08-						0-N06325-10/02/76-13-			20-16.0-	-	-		7.2-	440-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	6-	-	-	5.98
35-36.0492-103.0775-2-08-						0-N06326-10/02/76-13-			20-15.6-	-	-		7.6-	550-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	6-	-	-	3.54
35-36.0286-103.0775-2-08-						0-N06327-10/02/76-14-			18-15.8-	-	-		6.9-	600-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	6-	-	-	0.68
35-36.0356-103.0889-2-08-						0-N06328-10/02/76-14-			20-15.7-	-	-		7.3-	500-		-1-1-	-	-	-	-1-	-3-2-2-3-	-1-3-	6-	-	-	6.26
35-36.0117-103.1019-2-08-						0-N06330-10/02/76-15-			18-16.2-	-	-		7.2-	480-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	5-	-	-	3.04
35-36.0183-103.1239-2-08-						0-N06331-10/02/76-15-			18-14.6-	-	-		7.4-	470-		-1-1-	-	-	-	-1-	-3-1-2-3-	-1-1-	6-	-	-	6.70
35-36.0136-103.0636-2-08-						0-N06332-10/02/76-16-			18-14.0-	-	-		7.1-	510-		-1-1-	-	-	-	-1-	-3-2-2-3-	-1-1-	4-	-	-	4.22
48-36.0772-103.0411-2-08-						0-N06333-10/02/76-17-			16-13.6-	-	-		7.1-	450-		-1-1-	-	-	-	-1-	-4-3-2-3-	-1-3-	6-	-	-	5.17
48-36.0983-103.0303-2-08-						0-N06334-10/02/76-17-			17-14.2-	-	-		7.4-	320-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	8-	-	-	0.63
48-36.0722-103.0294-2-08-						0-N06335-10/02/76-17-			16-14.2-	-	-		7.2-	370-		-1-1-	-	-	-	-1-	-4-2-2-3-	-1-1-	6-	-	-	3.60
48-36.0486-103.0208-2-08-						0-N06336-10/02/76-18-			17-14.4-	-	-		7.3-	320-		-1-1-	-	-	-	-1-	-3-3-2-3-	-1-1-	6-	-	-	4.73
48-36.0381-103.0233-2-08-						0-N06337-10/02/76-18-			17-14.3-	-	-		7.2-	440-		-1-1-	-	-	-	-1-	-3-3-2-3-	-1-1-	6-	-	-	4.57
48-36.0694-103.0106-2-08-						0-N06338-10/02/76-18-			17-14.0-	-	-		7.4-	375-		-1-1-	-	-	-	-1-	-4-3-2-3-	-1-1-	6-	140-	90-	4.41
35-36.3475-103.0761-2-08-						0-N06340-10/03/76-12-			26-14.8-	-	-		7.4-	360-		-1-1-	-	-	-	-1-	-4-3-1-1-	-1-1-	8-	-	-	0.10
35-36.3514-103.1081-2-08-						0-N06341-10/03/76-12-			26-15.4-	-	-		7.8-	420-		-1-1-	-	-	-	-1-	-4-3-1-1-	-1-1-	6-	-	-	4.42
35-36.5939-103.6139-2-08-						0-N06342-09/28/76-14-			20-15.0-	-	-		7.7-	290-		-1-1-	-	-	-	-1-	-4-2-3-2-	-1-2-	6-	-	-	0.83
35-36.6181-103.6606-2-08-						0-N06343-09/28/76-15-			12-11.5-	-	-		7.6-	320-		-1-1-	-	-	-	-1-	-4-2-2-2-	-1-1-	6-	230-	-	0.96
35-36.6044-103.6556-2-08-						0-N06344-09/28/76-15-			14-12.0-	-	-		6.8-	480-		-1-1-	-	-	-	-1-	-4-2-3-2-	-1-1-	6-	300-	-	0.10
35-36.5397-103.6497-2-08-						0-N06347-09/28/76-17-			14-12.0-	-	-		7.5-	340-		-1-1-	-	-	-	-1-	-4-2-3-2-	-1-1-	6-	-	-	1.39
35-36.5886-103.9981-2-08-						0-N06349-09/29/76-11-			16-11.0-	-	-		7.2-	440-		-1-1-	-	-	-	-1-	-4-2-3-2-	-1-1-	-	-	-	1.59
35-36.5097-103.8753-2-08-						0-N06350-09/29/76-12-			19-12.0-	-	-		6.9-	400-		-1-1-	-	-	-	-1-	-4-2-3-1-	-1-1-	6-	-	-	1.14
35-36.5144-103.8894-2-08-						0-N06351-09/29/76-13-			21-14.2-	-	-		6.9-	240-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	1.23
35-36.5089-103.9006-2-08-						0-N06352-09/29/76-	-		21-11.5-	-	-		6.8-	600-		-1-1-	-	-	-	-1-	-4-2-3-1-	-1-1-	6-	-	-	3.33
35-36.5761-103.6525-2-08-						0-N06353-09/29/76-14-			22-16.2-	-	-		6.9-	700-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	0.10
35-36.5775-103.6692-2-08-						0-N06355-09/29/76-15-			20-16.0-	-	-		7.3-	280-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	1.03
35-36.5664-103.6767-2-08-						0-N06356-09/29/76-16-			20-14.0-	-	-		6.9-	200-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	0.39
35-36.5589-103.7117-2-08-						0-N06357-09/29/76-16-			21-15.5-	-	-		6.9-	290-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	1.62
35-36.5511-103.7033-2-08-						0-N06358-09/29/76-16-			19-13.5-	-	-		7.1-	290-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	2.22
35-36.5333-103.7033-2-08-						0-N06359-09/29/76-16-			21-15.2-	-	-		7.4-	330-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	2.95
35-36.5206-103.6947-2-08-						0-N06360-09/29/76-16-			21-16.5-	-	-		7.5-	280-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	3.35
35-36.5061-103.6864-2-08-						0-N06361-09/29/76-17-			20-14.2-	-	-		6.9-	310-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	2.44
35-36.5097-103.7303-2-08-						0-N06362-09/29/76-17-			20-14.5-	-	-		7.2-	360-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	1.74
35-36.9739-103.6283-2-08-						0-N06363-10/07/76-13-			1-13.9-	-	-		7.9-	1400-		-1-1-	-	-3-	-1-	-4-3-4-5-	-1-1-	6-	-	-	13.73
35-36.5392-103.7294-2-08-						0-N06364-09/29/76-18-			20-16.5-	-	-		7.2-	420-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	1.42
35-36.6206-103.7136-2-08-						0-N06365-09/30/76-11-			21-12.5-	-	-		7.4-	300-		-1-1-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	0.10
35-36.7853-103.6583-2-08-						0-N06366-10/06/76-14-			10-11.2-	-	-		7.6-	340-		-1-1-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-	-	-	1.53
35-36.5878-103.7064-2-08-						0-N06367-09/30/76-11-			22-12.0-	-	-		7.4-	270-		-3-8-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	1.82
35-36.5256-103.6108-2-08-						0-N06368-09/30/76-12-			23-14.5-	-	-		7.2-	250-		-1-1-	-	-	-	-1-	-4-2-3-1-	-1-1-	6-	-	-	1.91
35-36.6978-103.7289-2-08-						0-N06370-10/03/76-	8-		19-10.5-	-	-		7.4-	500-		9-3-8-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	6.47

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	[illegible]	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
35-36.6972-103.7469-2-08-						0-N06371-10/03/76-	9-		19-12.0-		-	-	7.8-	285-	3-3-8-	-	-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	1.54
35-36.7136-103.6825-2-08-						0-N06372-10/03/76-	9-		20-13.5-		-	-	7.6-	310-	17-1-	-	-	-	-	-	-1-	-4-3-2-2-	-1-2-	6-	-	-	2.58
35-36.7097-103.6969-2-08-						0-N06373-10/03/76-	9-		20-13.0-		-	-	7.6-	400-	9-1-	-	-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	2.41
35-36.7333-103.6911-2-08-						0-N06374-10/03/76-11-			21-12.5-		-	-	7.6-	320-	13-3-4-	-	-	-	-	-	-1-	-4-3-2-2-	-1-1-	-	-	-	2.76
35-36.7364-103.7053-2-08-						0-N06376-10/03/76-11-			20-18.0-		-	-	7.4-	265-	-3-8-	-	-	-	-	-	-1-	-4-3-2-1-	-1-2-	-	-	-	1.88
35-36.7414-103.7428-2-08-						0-N06377-10/03/76-11-			20-11.5-		-	-	7.4-	310-	6-3-8-	-	-	-	-	-	-1-	-4-3-2-1-	-1-2-	-	-	-	2.10
35-36.7303-103.7378-2-08-						0-N06378-10/03/76-12-			20-13.0-		-	-	8.0-	250-	12-3-8-	-	-	-	-	-	-1-	-4-3-2-1-	-1-1-	6-	-	-	1.84
35-36.8911-103.8747-2-08-						0-N06379-10/07/76-10-			-1- 5.0-		-	-	7.8-	575-	9-3-8-	-	-	-	-	-	-1-	-1-3-3-3-	-1-1-	-	-	-	6.89
35-36.9175-103.8344-2-08-						0-N06380-10/07/76-10-			-2-22.0-		-	-	7.6-	1375-	12-1-2-	-	-	-	-	-	-1-	-1-3-3-3-	-1-2-	-	-	-	6.14
35-36.9006-103.8131-2-08-						0-N06381-10/07/76-12-			- 3.0-		-	-	7.3-	2000-	10-3-7-	-	-	-	-	-	-1-	-1-3-3-3-	-1-1-	-	-	-	12.03
35-36.9103-103.7653-2-08-						0-N06382-10/07/76-12-			-1-12.0-		-	-	7.0-	1050-	8-3-7-	-	-	-	-	-	-1-	-1-3-3-3-	-1-2-	-	-	-	12.50*
35-36.9147-103.7533-2-06-						0-N06383-10/07/76-12-			1-15.4-		-	-	7.9-	1700-	9-1-1-	-	-3-	-1-	-1-	-3-4-3-	-1-	-3-	5-	-	-	8.88
35-36.1536-103.6464-2-08-						0-N06390-09/22/76-15-			25-16.0-		-	-	7.4-	1800-	3-1-1-	-	-	-	-1-	-3-2-1-2-	-1-1-	6-	-	-	11.59
35-36.1597-103.6306-2-06-						0-N06392-09/22/76-10-			24-19.0-		-	-	8.8-	230-	11-1-1-	-	-1-	2-2-	-2-	3-2-2-	-1-	-	-	-	-	1.38
35-36.4939-103.1297-2-08-						0-N06393-10/02/76-11-			18-13.0-C-		-	-	6.9-	390-	-3-8-	-	-	-	-1-	-4-3-2-3-	-1-1-	8-	-	-	2.71
35-36.4708-103.2100-2-08-						0-N06394-10/02/76-17-			16-13.0-C-		-	-	7.4-	460-	-3-8-	-	-	-	-1-	-4-2-2-2-	-3-1-	6-	-	-	7.85
35-36.4797-103.2364-2-08-						0-N06395-10/02/76-17-			15-12.0-C-		-	-	8.4-	600-	-1-1-	-	-	-	-1-	-4-2-1-2-	-1-1-	6-	-	-	1.55
35-36.4944-103.2086-2-06-						0-N06397-10/02/76-18-			14-10.0-C-		-	-	7.4-	650-	-3-8-5-6-1-3-1-					-3-3-2-3-	-1-	-	-	-	-	4.29
35-36.4814-103.1928-2-08-						0-N06398-10/03/76-12-			30-15.0-		-	-	8.2-	360-	31-3-8-	-	-	-	-1-	-4-2-1-1-	-1-1-	6-	-	-	3.22
35-36.4783-103.1714-2-07-						0-N06399-10/03/76-12-			30-18.0-		-	-	7.7-	150-	7-3-8-5-6-1-4-4-2-4-2-1-1-						-3-	-	-	-	-	0.26
35-36.4931-103.1842-2-08-						0-N06400-10/03/76-13-			25-15.0-		-	-	7.2-	480-	5-3-8-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-	-	-	1.62
35-36.4869-103.1647-2-08-						0-N06401-10/03/76-13-			25-20.C-		-	-	9.4-	1300-	1-3-8-	-	-	-	-1-	-4-2-1-1-	-1-1-	4-	-	-	5.85
35-36.4683-103.1406-2-08-						0-N06402-10/03/76-14-			24-16.0-		-	-	7.8-	500-	5-3-8-	-	-	-	-1-	-4-2-1-1-	-1-1-	6-	-	-	0.22
35-36.4511-103.2044-2-08-						0-N06403-10/03/76-15-			28-16.C-		-	-	7.6-	500-	11-1-1-	-	-	-	-1-	-2-2-1-1-	-1-4-	-	-	-	3.38
35-36.4494-103.2228-2-08-						0-N06404-10/03/76-15-			28-16.0-		-	-	7.7-	550-	11-1-1-	-	-	-	-1-	-4-2-1-1-	-1-1-	6-	-	-	3.62
35-36.4542-103.2233-2-08-						0-N06405-10/03/76-15-			28-18.0-		-	-	8.7-	350-	36-1-1-	-	-	-	-1-	-4-2-1-1-	-1-1-	2-	-	-	2.22
35-36.4489-103.2353-2-08-						0-N06406-10/03/76-15-			28-18.0-		-	-	8.9-	400-	-1-1-	-	-	-	-1-	-4-2-1-1-	-1-1-	6-	-	-	4.19
35-36.4650-103.2317-2-08-						0-N06407-10/03/76-17-			26-18.0-		-	-	8.9-	400-	5-3-8-	-	-	-	-1-	-4-2-1-1-	-1-1-	6-	-	-	2.66
35-36.4342-103.2136-2-08-						0-N06408-10/03/76-17-			26-16.0-		-	-	7.8-	470-	13-1-1-	-	-	-	-1-	-2-2-1-1-	-1-1-	6-	-	-	4.55
35-36.4369-103.2329-2-08-						0-N06409-10/03/76-17-			23-15.0-		-	-	8.4-	500-	3-1-1-	-	-	-	-1-	-4-2-1-1-	-1-1-	6-	-	-	3.81
35-36.4292-103.2386-2-07-						0-N06410-10/03/76-17-			24-14.0-		-	-	8.3-	500-	1-3-7-5-6-1-2-1-1-4-3-2-2-						-1-	-	-	-	-	3.49
35-36.4225-103.2165-2-06-						0-N06411-10/03/76-18-			22-14.0-		-	-	7.7-	460-	7-1-1-5-6-4-4-1-					-4-4-2-3-	-1-	-	-	-	-	4.49
35-36.5089-103.3950-2-08-						0-N06412-10/05/76-13-			19-15.8-		-	-	7.2-	312-	5-1-1-	-	-	-	-1-	-4-3-3-2-	-1-1-	-	-	-	-	2.46
35-36.5128-103.4108-2-08-						0-N06413-10/05/76-13-			16-17.2-		-	-	8.0-	375-	4-1-1-	-	-	-	-1-	-4-3-3-2-	-1-1-	5-	-	-	-	1.87
35-36.5108-103.4503-2-08-						0-N06414-10/05/76-14-			16-15.2-		-	-	7.8-	362-	17-3-8-	-	-	-	-1-	-4-3-3-2-	-1-1-	6-	-	-	-	1.86
35-36.5952-103.3903-2-08-						0-N06415-10/05/76-16-			14-14.2-		-	-	7.1-	425-	10-3-7-	-	-	-	-1-	-4-3-2-2-	-1-1-	-	-	-	-	2.08
35-36.5911-103.4175-2-08-						0-N06416-10/05/76-17-			14-14.8-		-	-	8.0-	990-	3-3-8-	-	-	-	-1-	-4-3-3-2-	-1-1-	-	-	-	-	0.10
35-36.5239-103.4156-2-08-						0-N06418-10/05/76-18-			13-13.8-		-	-	7.6-	400-	13-1-1-	-	-	-	-1-	-4-3-3-3-	-1-1-	-	-	-	-	1.99
35-36.6747-103.4211-2-08-						0-N06419-10/06/76-14-			15-13.8-		-	-	7.8-	850-	13-1-1-	-	-	-	-1-	-4-3-2-3-	-1-1-	6-	-	-	-	8.95
35-36.7400-103.4133-2-07-						0-N06420-10/07/76-13-			6- 8.0-		-	-	7.6-	500-	5-1-1-5-6-2-2-3-2-4-3-4-3-						-1-	-	-	-	-	1.95
35-36.9328-103.3672-2-08-						0-N06422-10/07/76-14-			4- 8.2-		-	-	6.7-	600-	-1-4-	-	-	-	-1-	-4-2-3-3-	-1-1-	6-	-	-	-	14.11
35-36.9592-103.3464-2-08-						0-N06423-10/07/76-15-			4-11.3-		-	-	6.6-	1500-	-1-4-	-	-	-	-1-	-4-3-2-3-	-1-3-	6-100-	-	-	-	12.71
35-36.9747-103.3917-2-08-						0-N06424-10/07/76-15-			6-12.2-		-	-	6.7-	1100-	-1-4-	-	-	-	-1-	-4-2-3-3-	-1-2-	5-600-	-	-	-	6.64
35-36.9658-103.4244-2-06-						0-N06425-10/07/76-15-			6-14.8-		-	-	6.6-	500-	-1-4-5-6-3-				-2-	-4-3-3-3-	-1-	-	-	-	-	3.09
35-36.9458-103.4619-2-08-						0-N06426-10/07/76-16-			6-11.9-		-	-	6.7-	1100-	-1-4-	-	-	-	-1-	-4-2-4-3-	-1-1-	5-	-	-	-	22.62
35-36.9889-103.4539-2-08-						0-N06427-10/07/76-16-			8- 8.7-		-	-	6.7-	550-	-1-4-	-	-	-	-	-4-3-2-3-	-1-3-	8-600-	-	-	-	8.36
35-36.9797-103.4864-2-08-						0-N06428-10/07/76-16-			6- 8.7-		-	-	6.8-	1900-	-1-4-	-	-	-	-1-	-4-2-2-3-	-1-2-	5-120-112-				19.84
35-36.7703-103.6653-2-08-						0-N06429-10/06/76-14-			10-11.2-		-	-	7.6-	550-	-1-1-	-	-	-	-1-	-4-3-1-3-	-1-1-	6-	-	-	-	4.70
35-36.7717-103.6272-2-08-						0-N06430-10/06/76-15-			8-11.2-		-	-	7.2-	410-	-3-7-	-	-	-	-1-	-4-3-2-3-	-1-1-	6-	-	-	-	2.11
35-36.6258-103.6175-2-08-						0-N06431-09/30/76-	9-		13-12.0-		-	-	6.8-	230-	-1-	-	-	-	-1-	-4-3-2-3-	-1-1-	5-	-	-	-	0.79
35-36.6336-103.6139-2-08-						0-N06432-09/30/76-	9-		14-13.0-		-	-	7.2-	285-	-1-	-	-	-	-1-	-4-3-2-3-	-1-1-	6-	-	-	-	\0.27

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (cts (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
35-	36.6422-	103.6014-	2-	08-		0-N06433-	09/30/76-	10-	15-	13.5-	-	-	7.6-	345-		-1-	-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	6-		-	-	2.16
35-	36.6439-	103.5994-	2-	08-		0-N06434-	09/30/76-	10-	15-	11.0-	-	-	7.4-	350-		-1-	-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	6-		-	-	1.32
35-	36.6644-	103.6186-	2-	08-		0-N06435-	09/30/76-	11-	19-	14.2-	-	-	7.6-	500-		-3-	8-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	-		-	-	3.30
35-	36.6558-	103.5778-	2-	08-		0-N06436-	09/30/76-	12-	20-	14.2-	-	-	6.8-	410-		-1-	-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	6-		-	-	2.15
35-	36.6406-	103.5233-	2-	08-		0-N06439-	09/30/76-	15-	20-	13.9-	-	-	7.4-	500-		-1-	-	-	-	-	-1-	-4-	3-	2-	2-	-1-	1-	6-		-	-	4.66
35-	36.6431-	103.5186-	2-	08-		0-N06440-	09/30/76-	15-	17-	14.5-	-	-	7.6-	600-		-1-	-	-	-	-	-1-	-4-	3-	2-	2-	-1-	1-	5-		-	-	3.32
35-	36.6272-	103.5083-	2-	08-		0-N06441-	09/30/76-	16-	15-	13.5-	-	-	7.4-	550-		-1-	-	-	-	-	-1-	-4-	3-	2-	2-	-1-	1-	6-		-	-	3.60
35-	36.6272-	103.5408-	2-	08-		0-N06442-	09/30/76-	17-	16-	14.2-	-	-	7.4-	500-		-1-	-	-	-	-	-1-	-4-	3-	2-	2-	-1-	1-	6-	100-	-	-	5.35
35-	36.6872-	103.5931-	2-	08-		0-N06443-	10/02/76-	9-	20-	11.2-	-	-	7.6-	550-		-3-	7-	-	-	-	-1-	-4-	3-	2-	2-	-1-	1-	-		-	-	2.07
35-	36.7025-	103.5758-	2-	07-		0-N06445-	10/02/76-	10-	22-	13.9-	-	-	7.3-	1050-		-1-	2-	4-	6-	2-	2-	1-	1-	4-	3-	2-	2-	1-	-	-	-	-	11.24
35-	36.7153-	103.5581-	2-	08-		0-N06446-	10/02/76-	10-	23-	13.5-	-	-	7.9-	400-		-1-	2-	-	-	-	-1-	-4-	3-	2-	2-	-1-	1-	6-		-	-	1.31
35-	36.7283-	103.5989-	2-	07-		0-N06447-	10/02/76-	11-	22-	13.5-	-	-	8.0-	340-		-1-	1-	4-	6-	1-	2-	1-	-	4-	3-	2-	2-	-1-	-	-	-	-	5.50
35-	36.7353-	103.5936-	2-	08-		0-N06448-	10/02/76-	11-	24-	12.5-	-	-	7.2-	900-		-1-	2-	-	-	-	-1-	-	4-	3-	1-	1-	-1-	1-	6-		-	-	5.56
35-	36.7111-	103.6119-	2-	08-		0-N06450-	10/02/76-	12-	21-	14.5-	-	-	6.8-	500-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	1-	-1-	2-		-	-	-	7.90
35-	36.7489-	103.5622-	2-	07-		0-N06451-	10/02/76-	13-	23-	14.2-	-	-	7.5-	500-		-1-	2-	-	-	2-	3-	2-	-	4-	3-	3-	1-	-1-	-	-	-	-	3.02
35-	36.7386-	103.5164-	2-	08-		0-N06452-	10/02/76-	14-	23-	15.2-	-	-	7.4-	700-		-1-	6-	-	-	-	-1-	-	4-	3-	3-	1-	-1-	1-	6-		-	-	3.42
35-	36.7239-	103.5239-	2-	08-		0-N06453-	10/02/76-	14-	23-	14.2-	-	-	7.4-	650-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	1-	-1-	1-	6-		-	-	4.15
35-	36.7061-	103.5056-	2-	08-		0-N06454-	10/02/76-	14-	23-	16.2-	-	-	7.6-	600-		-1-	4-	-	-	-	-1-	-	4-	3-	2-	1-	-1-	1-	-		-	-	0.19
35-	36.6125-	103.5053-	2-	08-		0-N06455-	10/02/76-	15-	24-	14.2-	-	-	7.2-	355-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	1-	-1-	1-	6-		-	-	4.35
35-	36.6014-	103.5244-	2-	08-		0-N06456-	10/02/76-	16-	22-	16.1-	-	-	6.7-	240-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	1-	-1-	1-	6-		-	-	0.47
35-	36.5986-	103.5069-	2-	08-		0-N06457-	10/02/76-	16-	22-	14.7-	-	-	7.1-	262-		-3-	7-	-	-	-	-1-	-	4-	3-	2-	1-	-1-	1-	6-		-	-	0.74
35-	36.5975-	103.5494-	2-	08-		0-N06458-	10/02/76-	16-	22-	15.2-	-	-	7.0-	295-		-1-	1-	-	-	-	-1-	-	4-	3-	1-	1-	-1-	1-	6-		-	-	1.31
35-	36.6014-	103.5681-	2-	08-		0-N06459-	10/02/76-	17-	21-	16.2-	-	-	6.9-	230-		-3-	8-	-	-	-	-1-	-	4-	3-	2-	2-	-1-	1-	6-		-	-	1.31
35-	36.5111-	103.5508-	2-	08-		0-N06460-	10/04/76-	9-	5-	10.8-	-	-	6.3-	350-		-1-	1-	-	-	-	-1-	-	4-	3-	1-	4-	-1-	5-		-	-	-	3.55
35-	36.5133-	103.5825-	2-	08-		0-N06461-	10/04/76-	10-	5-	8.2-	-	-	6.4-	320-		-1-	1-	-	-	-	-5-	-	4-	3-	1-	4-	-1-	1-	6-		-	-	1.56
35-	36.6119-	103.6214-	2-	08-		0-N06462-	10/04/76-	11-	5-	6.2-	-	-	6.8-	280-		-3-	8-	-	-	-	-1-	-	4-	3-	2-	4-	-1-	1-	6-		-	-	0.75
35-	36.6117-	103.5958-	2-	08-		0-N06463-	10/04/76-	11-	5-	11.5-	-	-	6.8-	290-		-3-	8-	-	-	-	-1-	-	4-	3-	2-	4-	-1-	2-	6-		-	-	0.65
35-	36.6197-	103.5819-	2-	08-		0-N06464-	10/04/76-	12-	5-	12.2-	-	-	6.8-	310-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	3-	-1-	1-	6-		-	-	1.56
35-	36.6053-	103.5669-	2-	08-		0-N06465-	10/04/76-	12-	6-	11.2-	-	-	6.5-	440-		-3-	7-	-	-	-	-1-	-	4-	3-	3-	3-	-1-	1-	6-		-	-	0.10
35-	36.6128-	103.5617-	2-	08-		0-N06466-	10/04/76-	12-	6-	13.2-	-	-	6.8-	280-		-3-	8-	-	-	-	-1-	-	4-	3-	2-	3-	-1-	1-	6-		-	-	1.27
35-	36.6131-	103.5508-	2-	08-		0-N06467-	10/04/76-	13-	6-	11.2-	-	-	7.3-	395-		-3-	8-	-	-	-	-1-	-	4-	3-	2-	3-	-1-	1-	6-		-	-	2.59
35-	36.5972-	103.5767-	2-	08-		0-N06468-	10/04/76-	13-	6-	11.2-	-	-	7.2-	300-		-1-	1-	-	-	-	-1-	-	4-	3-	1-	3-	-1-	1-	6-		-	-	0.92
35-	36.5811-	103.5256-	2-	08-		0-N06469-	10/04/76-	-	8-	12.0-	-	-	7.4-	290-		-3-	8-	-	-	-	-1-	-	4-	3-	2-	3-	-1-	1-	6-		-	-	1.35
35-	36.5692-	103.5531-	2-	08-		0-N06470-	10/04/76-	15-	8-	11.2-	-	-	7.8-	270-		-1-	2-	-	-	-	-1-	-	4-	3-	2-	2-	-1-	1-	6-		-	-	1.44
35-	36.2181-	103.3433-	2-	08-		0-N06471-	09/26/76-	12-	21-	16.8-	-	-	7.6-	485-		-1-	1-	-	-	-	-1-	-	4-	3-	3-	3-	-1-	1-	-		-	-	3.13
35-	36.2347-	103.3444-	2-	08-		0-N06472-	09/26/76-	12-	22-	18.8-	-	-	7.5-	432-		-1-	1-	-	-	-	-1-	-	4-	3-	3-	3-	-1-	1-	-		-	-	1.73
35-	36.2433-	103.3481-	2-	08-		0-N06473-	09/26/76-	12-	22-	20.1-	-	-	7.2-	375-		-1-	1-	-	-	-	-1-	-	4-	3-	3-	3-	-1-	-	6-		-	-	1.87
35-	36.2164-	103.3114-	2-	08-		0-N06474-	09/25/76-	13-	18-	16.0-	-	-	7.6-	500-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	2-	-1-	3-	6-		-	-	9.05
35-	36.2033-	103.2978-	2-	08-		0-N06475-	09/26/76-	13-	22-	16.1-	-	-	7.6-	700-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	2-	-1-	1-	6-		-	-	21.03
35-	36.1956-	103.3372-	2-	08-		0-N06477-	09/26/76-	14-	22-	16.0-	-	-	7.4-	499-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	2-	-1-	1-	-		-	-	2.68
35-	36.1789-	103.2583-	2-	08-		0-N06478-	09/26/76-	15-	19-	16.2-	-	-	7.0-	1340-		-1-	1-	-	-	-	-1-	-	4-	3-	1-	3-	-1-	1-	6-		-	-	18.05
35-	36.1361-	103.3458-	2-	08-		0-N06479-	09/28/76-	12-	10-	9.5-	-	-	7.4-	690-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	3-	-1-	1-	-		-	-	4.85
35-	36.1533-	103.2856-	2-	08-		0-N06481-	09/28/76-	13-	12-	19.2-	-	-	7.2-	800-		-1-	1-	-	-	-	-1-	-	4-	3-	3-	3-	-1-	3-		120-	-	7.79
35-	36.2458-	103.3086-	2-	08-		0-N06482-	09/28/76-	14-	11-	17.8-	C-	-	6.2-	498-		-1-	1-	-	-	-	-1-	-	4-	3-	1-	2-	-1-	3-	-		-	-	9.37
35-	36.2350-	103.2936-	2-	08-		0-N06483-	09/28/76-	14-	13-	15.8-	-	-	7.4-	600-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	2-	-1-	1-	-		-	-	1.48
35-	36.2450-	103.2539-	2-	08-		0-N06484-	09/28/76-	14-	16-	18.5-	-	-	7.5-	362-		-1-	1-	-	-	-	-1-	-	4-	3-	1-	2-	-1-	1-	-		-	-	1.96
35-	36.7506-	103.5600-	2-	08-		0-N06485-	10/04/76-	16-	8-	11.2-	-	-	7.4-	600-		-1-	6-	-	-	-	-1-	-	3-	3-	3-	2-	-1-	2-	-		-	-	0.45
35-	36.7694-	103.5256-	2-	08-		0-N06487-	10/04/76-	14-	8-	12.2-	-	-	6.2-	750-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	3-	-1-	1-	6-		-	-	7.30
35-	36.7936-	103.5114-	2-	08-		0-N06491-	10/05/76-	13-	11-	12.5-	-	-	8.5-	780-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	1-	-1-	1-	6-		-	-	5.94
35-	36.8442-	103.5500-	2-	08-		0-N06492-	10/06/76-	11-	12-	9.2-	-	-	7.8-	600-		-1-	1-	-	-	-	-1-	-	4-	3-	2-	1-	-1-	1-	6-		-	-	4.80
35-	36.8339-	103.5561-	2-	06-		0-N06493-	10/06/76-	12-	12-	12.1-	-	-	6.6-	190-		-1-	4-	-	-	-	-3-	-	4-	3-	2-	1-	-3-	-	-		-	-	1.57

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (αU ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	ALLUVIUM LOCUM	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
35-36.8089-103.6181-2-08-						0-N06494-10/06/76-12-	12-	12.2-	-	-	7.3-	600-		-1-2-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-		-	-	4.37
35-36.8244-103.6253-2-08-						0-N06495-10/06/76-13-	12-	14.2-	-	-	7.2-	500-		-1-6-	-	-	-	-1-	-4-3-1-2-	-1-2-	6-		-	-	2.94
35-36.8267-103.6878-2-08-						0-N06496-10/06/76-13-	12-	12.9-	-	-	7.4-	600-		-1-4-	-	-	-	-1-	-4-3-2-2-	-1-2-	6-		-	-	0.10
35-36.8078-103.6825-2-08-						0-N06497-10/06/76-13-	12-	12.2-	-	-	7.3-	400-		-1-1-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-		-	-	1.47
35-36.7861-103.7181-2-08-						0-N06498-10/06/76-13-	10-	12.2-	-	-	7.8-	650-		-1-1-	-	-	-	-1-	-4-3-1-3-	-1-1-	6-		-	-	5.45
35-36.5125-103.0833-2-08-						0-N06500-09/27/76- 9-	10-	17.8-C-	-	-	6.6-	410-		-1-9-	-	-	-	-1-	-4-3-2-4-	-1-2-	-		-	-	3.65
35-36.5111-103.0994-2-08-						0-N06501-09/27/76-10-	10-	17.9-C-	-	-	6.7-	380-		-1-9-	-	-	-	-1-	-4-3-2-5-	-1-2-	-		-	-	3.06
35-36.5097-103.1042-2-08-						0-N06502-09/29/76-10-	19-	12.2-C-	-	-	8.4-	305-		20-3-6-	-	-	-	-1-	-4-3-2-1-	-1-1-	6-		-	-	2.67
35-36.5108-103.1147-2-07-						0-N06503-09/29/76-11-	18-	15.8-C-	-	-	7.5-	90-		20-3-6-4-6-2-4-4-					-4-3-2-1-	-3-	-		-	-	0.10
35-36.5608-103.1194-2-08-						0-N06504-09/29/76-11-	20-	16.9-C-	-	-	7.6-	580-		6-3-6-	-	-	-	-1-	-4-3-2-1-	-1-1-	6-		-	-	5.50
35-36.5553-103.0894-2-08-						0-N06505-09/29/76-11-	20-	15.0-C-	-	-	9.6-	350-		24-3-6-	-	-	-	-1-	-4-2-2-1-	-1-1-	6-		-	-	3.77
35-36.5553-103.0736-2-08-						0-N06506-09/29/76-11-	19-	16.2-C-	-	-	8.2-	400-		13-1-	-	-	-	-1-	-4-3-2-1-	-1-1-	6-		-	-	4.24
35-36.5614-103.0567-2-08-						0-N06507-09/29/76-12-	20-	19.5-C-	-	-	8.0-	310-		10-1-	-	-	-	-1-	-4-3-2-1-	-1-8-	-		-	-	2.47
35-36.5522-103.0278-2-08-						0-N06509-09/29/76-14-	19-	14.9-C-	-	-	7.3-	300-		13-1-	-	-	-	-	-	-4-4-2-1-	-1-3-	-140-		-	3.52
35-36.5569-103.0225-2-08-						0-N06510-09/29/76-14-	22-	21.0-C-	-	-	9.1-	200-		3-1-	-	-	-	-5-	-4-3-2-1-	-1-1-	6-	80-		-	1.21
35-36.5117-103.0033-2-08-						0-N06511-09/29/76-15-	21-	19.1-C-	-	-	6.8-	390-		13-1-	-	-	-	-1-	-4-3-2-1-	-1-3-	-350-			-	3.79
35-36.5078-103.0231-2-08-						0-N06512-09/29/76-15-	21-	18.7-C-	-	-	8.0-	320-		10-1-	-	-	-	-1-	-4-2-2-1-	-3-1-	6-		-	-	4.99
35-36.5008-103.0392-2-08-						0-N06513-09/29/76-16-	21-	18.7-C-	-	-	7.3-	410-		6-1-	-	-	-	-1-	-4-4-1-1-	-1-8-	-		-	-	3.55
35-36.6178-103.0033-2-08-						0-N06515-09/29/76-17-	20-	15.8-C-	-	-	7.7-	370-		13-1-	-	-	-	-1-	-4-3-1-1-	-1-1-	6-		-	-	7.36
35-36.6056-103.0039-2-08-						0-N06516-09/29/76-17-	19-	18.1-C-	-	-	7.7-	350-		12-1-	-	-	-	-1-	-4-3-1-1-	-3-1-	6-		-	-	7.00
35-36.5981-103.0192-2-08-						0-N06517-09/29/76-18-	19-	15.3-C-	-	-	7.4-	410-		10-1-	-	-	-	-1-	-4-2-2-1-	-9-1-	-		-	-	5.89
35-36.6017-103.0361-2-08-						0-N06518-09/29/76-18-	18-	15.9-C-	-	-	7.2-	405-		8-1-	-	-	-	-1-	-4-3-2-1-	-1-8-	-		-	-	8.79
35-36.6167-103.0364-2-08-						0-N06519-09/29/76-18-	18-	17.8-C-	-	-	7.7-	460-		15-1-	-	-	-	-1-	-4-2-2-1-	-3-1-	6-		-	-	8.64
35-36.5331-103.2697-2-08-						0-N06520-09/27/76-10-	10-	7.8-C-	-	-	7.8-	290-		-3-8-	-	-3-	-1-	-4-3-3-	-	-1-1-	3-		-	-	2.79
35-36.5642-103.2883-2-08-						0-N06521-09/28/76- 9-	8-	8.2-C-	-	-	7.9-	330-		-3-8-	-	-2-	-1-	-4-3-2-2-		-1-1-	3-		-	-	3.58
35-36.5706-103.3019-2-08-						0-N06522-09/28/76- 9-	8-	14.3-	-	-	7.8-	420-		-3-8-	-	-2-	-1-	-4-3-2-3-		-1-1-	6-		-	-	3.69
35-36.5817-103.2844-2-06-						0-N06523-09/28/76-10-	10-	18.8-C-	-	-	7.4-	500-		-1-1-	-	-3-	-1-	-4-4-2-3-		-1-	-		-	-	3.09
35-36.6011-103.2942-2-08-						0-N06524-09/28/76-10-	10-	16.1-	-	-	7.4-	450-		-1-1-	-	-3-	-1-	-4-3-2-3-		-1-1-	3-	60-	45-	-	5.46
35-36.6058-103.2806-2-08-						0-N06525-09/28/76-11-	10-	14.5-	-	-	7.6-	550-		-1-1-	-	-3-	-1-	-4-3-2-3-		-1-1-	6-		-	-	5.91
35-36.5975-103.2533-2-08-						0-N06526-09/28/76-11-	10-	14.7-	-	-	7.4-	600-		-1-1-	-	-2-	-1-	-4-3-2-3-		-1-1-	3-	160-	90-	-	4.41
35-36.6117-103.2519-2-08-						0-N06527-09/28/76-12-	10-	14.2-	-	-	7.6-	500-		-1-1-	-	-3-	-1-	-4-3-2-2-		-1-1-	3-	120-	90-	-	3.71
35-36.6161-103.3336-2-08-						0-N06528-09/28/76-12-	13-	15.4-	-	-	7.4-	460-		-1-1-	-	-3-	-1-	-4-3-2-2-		-1-1-	8-		-	-	5.07
35-36.5111-103.3285-2-07-						0-N06530-09/28/76-14-	20-	16.3-C-	-	-	7.7-	70-		-3-8-5-6-2-2-2-2-4-3-2-2-							-3-	-	-	-	-	0.10
35-36.5247-103.3619-2-08-						0-N06531-09/28/76-13-	20-	14.6-	-	-	7.4-	370-		-1-1-	-	-3-	-1-	-4-3-2-2-		-1-1-	3-		-	-	1.68
35-36.5358-103.3681-2-08-						0-N06532-09/28/76-14-	20-	14.3-	-	-	7.6-	440-		-1-1-	-	-3-	-1-	-4-3-2-2-		-1-1-	3-		-	-	1.56
35-36.5606-103.3408-2-08-						0-N06533-09/28/76-15-	20-	13.9-	-	-	7.9-	420-		-3-8-	-	-2-	-1-	-4-3-2-2-		-1-1-	3-		-	-	6.15
35-36.5689-103.3439-2-07-						0-N06534-09/28/76-15-	20-	14.2-C-	-	-	7.9-	55-		-3-8-5-5-2-2-2-1-4-3-1-2-							-3-	-	-	-	-	0.25
35-36.5861-103.3405-2-08-						0-N06535-09/28/76-16-	21-	14.1-	-	-	7.7-	500-		-1-1-	-	-3-	-1-	-4-3-2-2-		-1-1-	4-		-	-	4.39
35-36.5819-103.3673-2-08-						0-N06536-09/28/76-16-	21-	14.0-	-	-	7.9-	500-		-1-1-	-	-2-	-1-	-4-3-2-2-		-1-1-	3-		-	-	6.25
35-36.4106-103.3609-2-08-						0-N06537-09/29/76-15-	25-	13.0-	-	-	7.8-	400-		-1-1-	-	-3-	-1-	-4-3-2-1-		-1-1-	2-		-	-	2.25
35-36.4906-103.3472-2-08-						0-N06538-09/29/76-16-	25-	15.3-	-	-	8.1-	300-		-1-1-	-	-2-	-1-	-4-2-2-1-		-1-1-	3-		-	-	2.50
35-36.4478-103.2972-2-06-						0-N06539-09/29/76-17-	23-	15.4-	-	-	7.6-	430-		-3-8-	-	-2-2-1-		-4-4-2-1-		-1-	-		-	-	6.86
35-36.4289-103.3428-2-08-						0-N06541-09/30/76-10-	26-	14.1-C-	-	-	8.4-	500-		-1-1-	-	-	-	-1-	-4-3-2-1-	-1-1-	3-		-	-	2.98
35-36.4369-103.3500-2-07-						0-N06543-09/30/76-10-	26-	14.2-	-	-	6.9-	300-		-1-1-	-	-2-2-1-2-4-3-2-1-					-3-	-	-	-	-	1.30
35-36.4100-103.3775-2-08-						0-N06544-09/30/76-12-	26-	14.4-C-	-	-	7.5-	600-		-1-1-	-	-	-	-1-	-4-3-2-1-	-3-1-	6-		-	-	2.39
35-36.4481-103.4117-2-06-						0-N06545-09/30/76-13-	26-	14.2-	-	-	7.3-	700-		-1-1-	-	-2-2-1-		-6-3-2-1-		-3-	-		-	-	3.53
35-36.4239-103.4075-2-08-						0-N06546-09/30/76-14-	27-	17.8-C-	-	-	8.2-	400-		-1-1-	-	-	-	-1-	-4-3-2-1-	-3-1-	2-		-	-	3.21
35-36.4161-103.4147-2-08-						0-N06547-09/30/76-15-	26-	14.C-	-	-	7.2-	700-		-1-1-	-	-2-	-1-	-4-3-2-1-		-1-1-	2-		-	-	8.98
35-36.3961-103.4019-2-08-						0-N06549-09/30/76-15-	26-	17.9-C-	-	-	8.2-	900-		-1-1-	-	-	-	-1-	-4-3-2-1-	-3-1-	3-		-	-	5.54
35-36.3828-103.4350-2-08-						0-N06551-09/30/76-15-	26-	19.0-C-	-	-	8.0-	500-		-1-1-	-	-	-	-1-	-4-3-2-1-	-3-1-11-			-	-	4.32
35-36.3969-103.4569-2-08-						0-N06552-09/30/76-15-	26-	19.0-C-	-	-	7.9-	400-		-1-1-	-	-	-	-1-	-4-3-2-1-	-1-1-	5-		-	-	2.91

APPENDIX I-A. (continued). Uranium Concentrations for Water 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)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
35-36.3872-103.4781-2-08-						0-N06553-09/30/76-15-			26-	20.0	-C-	-	8.0	650		-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-3	-1	6	-	-	0.10
35-36.4375-103.4553-2-08-						0-N06555-09/30/76-16-			26-	18.2	-	-	8.6	850		-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-3	-1	6	-	-	5.04
35-36.4231-103.4703-2-08-						0-N06556-09/30/76-16-			26-	19.5	-	-	8.6	900		-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-3	-1	3	-	-	3.97
35-36.4361-103.4881-2-08-						0-N06557-09/30/76-16-			25-	19.9	-	-	8.9	400		-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-3	-1	4	-	-	0.10
35-36.6989-103.6758-2-08-						0-N06561-10/01/76-15-			19-	12.5	-	-	7.4	273		9	-1	-	-	-	-1	-	-4	-3	-2	-2	-	-1	-1	-	-	-	0.72
35-36.6983-103.6700-2-08-						0-N06562-10/01/76-15-			18-	11.5	-	-	7.1	410		8	-1	-	-	-	-1	-	-4	-3	-2	-2	-	-1	-2	-	-	-	1.83
35-36.7064-103.6542-2-08-						0-N06563-10/01/76-15-			18-	13.0	-	-	7.0	650		9	-3	-8	-	-	-1	-	-4	-3	-3	-1	-	-1	-1	-	-	-	2.28
35-36.6972-103.6517-2-08-						0-N06564-10/01/76-15-			15-	13.5	-	-	7.1	330		8	-3	-8	-	-	-1	-	-4	-3	-2	-2	-	-1	-1	6	-	-	5.73
35-36.6981-103.6253-2-08-						0-N06565-10/01/76-16-			15-	13.0	-	-	7.2	380		5	-3	-8	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	-	-	-	0.85
35-36.7336-103.6347-2-08-						0-N06566-10/01/76-17-			16-	11.5	-	-	7.0	840		12	-1	-6	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	6	-	-	15.11
35-36.7408-103.6536-2-08-						0-N06567-10/01/76-17-			14-	11.5	-	-	7.1	525		19	-3	-8	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	6	-	-	3.38
35-36.6558-103.7486-2-08-						0-N06568-10/03/76- 8-			15-	12.5	-	-	7.3	220		10	-1	-	-	-	-	-1	-	-4	-3	-2	-2	-	-1	-1	6	-	-	1.28
35-36.6128-103.4875-2-08-						0-N06569-09/28/76-16-			15-	14.2	-	-	7.5	410			-1	-9	-	-	-	-1	-	-4	-3	-3	-2	-	-1	-1	-	-	-	4.03
35-36.5969-103.4558-2-07-						0-N06570-09/28/76-18-			12-	14.2	-	-	7.8	300			-1	-1	-5	-7	-3	-2	-3	-2	-4	-3	-3	-2	-	-1	-	-	-	-	1.78
35-36.6156-103.4544-2-08-						0-N06571-09/28/76-18-			12-	13.2	-	-	7.8	465			-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	6	-	-	5.45
35-36.5106-103.4997-2-08-						0-N06572-09/29/76-13-			18-	14.8	-	-	7.8	362			-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	-	-	-	-	1.74
35-36.5358-103.4808-2-08-						0-N06573-09/29/76-13-			23-	15.9	-	-	7.5	580			-3	-8	-	-	-	-1	-	-4	-3	-3	-1	-	-1	-1	6	-	-	0.10
35-36.5631-103.4853-2-08-						0-N06574-09/29/76-13-			21-	14.2	-	-	7.6	300			-1	-1	-	-	-	-1	-	-4	-3	-3	-1	-	-1	-1	6	-	-	1.72
35-36.5764-103.4494-2-08-						0-N06575-09/29/76-14-			23-	15.8	-	-	7.7	405			-3	-7	-	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	6	-	-	3.14
35-36.5822-103.4794-2-06-						0-N06577-09/29/76-14-			21-	15.2	-	-	7.7	1200			-1	-	5	-8	-1	-4	-4	-	-4	-3	-2	-1	-	-1	-	-	-	-	0.10
35-36.6278-103.4861-2-08-						0-N06578-09/29/76-15-			22-	16.0	-	-	7.4	480			-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	6	-	-	3.73
35-36.6275-103.4294-2-08-						0-N06579-09/29/76-15-			23-	15.8	-	-	7.1	450			-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	6	-	-	3.38
35-36.6503-103.4886-2-08-						0-N06580-09/29/76-16-			25-	16.2	-	-	7.6	800			-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	6	-	-	0.27
35-36.6758-103.4992-2-08-						0-N06581-09/29/76-16-			22-	16.2	-	-	7.8	1090			-1	-1	-	-	-	-1	-	-4	-3	-4	-1	-	-1	-2	6	-	-	0.32
35-36.6567-103.4800-2-08-						0-N06582-09/29/76-16-			21-	18.0	-	-	7.8	490			-1	-1	-	-	-	-1	-	-4	-3	-3	-1	-	-1	-1	6	-	-	5.66
35-36.6508-103.4442-2-08-						0-N06583-09/29/76-	-		21-	16.2	-	-	7.5	500			-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	5	-	-	6.23
35-36.6492-103.4142-2-08-						0-N06584-09/29/76-17-			22-	14.8	-	-	7.6	452			-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	6	-	-	3.79
35-36.6556-103.3961-2-08-						0-N06585-09/29/76-18-			18-	16.2	-	-	7.7	460			-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-1	-1	-	-	-	3.05
35-36.8017-103.8564-2-08-						0-N06586-10/04/76-10-			-	4.5	-	-	8.0	575		11	-1	-	-	-	-1	-	-4	-3	-2	-4	-	-1	-1	-	-	-	8.66
35-36.7681-103.8714-2-08-						0-N06587-10/06/76- 9-			9-	10.0	-	-	7.2	550		19	-3	-6	-	-	-	-1	-	-4	-3	-2	-3	-	-1	-1	-	-	-	8.25
35-36.7714-103.8444-2-08-						0-N06588-10/06/76- 9-			10-	10.5	-	-	7.0	520		12	-1	-	-	-	-	-1	-	-4	-3	-2	-3	-	-1	-1	-	-	-	9.01
35-36.7811-103.8444-2-08-						0-N06589-10/06/76-10-			9-	9.5	-	-	7.2	1075		13	-1	-	-	-	-	-	-	-4	-3	-2	-3	-	-1	-1	-	-	-	18.80*
35-36.8017-103.8419-2-08-						0-N06590-10/06/76-10-			9-	9.5	-	-	7.1	600		11	-1	-	-	-	-	-1	-	-4	-3	-2	-3	-	-1	-1	-	-	-	5.03
35-36.8369-103.8458-2-08-						0-N06591-10/06/76-10-			9-	7.0	-	-	8.0	700		13	-3	-8	-	-	-	-5	-	-4	-3	-3	-3	-	-1	-1	-	-	-	4.05
35-36.3125-103.3100-2-08-						0-N06592-09/29/76-11-			17-	16.8	-C-	-	8.0	380		13	-1	-1	-	-	-	-1	-	-4	-2	-3	-1	-	-3	-1	-	-	-	3.27
35-36.2967-103.3372-2-08-						0-N06594-09/29/76-12-			17-	15.2	-	-	7.7	325		9	-1	-1	-	-	-	-1	-	-4	-2	-3	-1	-	-3	-1	-	-	-	3.46
35-36.3267-103.3558-2-08-						0-N06595-09/29/76-13-			18-	17.5	-	-	7.8	300		7	-1	-1	-	-	-	-2	-	-4	-2	-2	-1	-	-3	-1	-	-	-	0.10
35-36.3061-103.3719-2-08-						0-N06596-09/29/76-13-			18-	15.2	-	-	8.0	375		12	-1	-1	-	-	-	-1	-	-4	-2	-3	-1	-	-3	-1	-	-	-	3.51
35-36.2881-103.3678-2-08-						0-N06597-09/29/76-14-			20-	15.9	-	-	8.0	625		7	-1	-1	-	-	-	-1	-	-4	-2	-4	-4	-	-3	-1	8	-	-	0.75
35-36.2947-103.4100-2-08-						0-N06598-09/29/76-14-			20-	19.0	-	-	7.7	650		6	-1	-1	-	-	-	-1	-	-4	-2	-2	-1	-	-	-1	-	-	-	3.41
35-36.3117-103.3900-2-08-						0-N06599-09/29/76-14-			20-	19.2	-C-	-	7.9	600		7	-1	-1	-	-	-	-1	-	-4	-2	-2	-1	-	-	-1	-	-	-	3.49
35-36.3042-103.4458-2-08-						0-N06600-09/29/76-16-			20-	18.0	-C-	-	7.8	450		13	-1	-1	-	-	-	-1	-	-4	-2	-2	-1	-	-3	-1	-	-	-	6.64
35-36.3453-103.4064-2-08-						0-N06601-09/29/76-16-			20-	16.5	-	-	7.9	600		13	-1	-1	-	-	-	-1	-	-4	-2	-2	-1	-	-3	-1	-	-	-	3.89
35-36.3000-103.4406-2-06-						0-N06602-09/29/76-17-			21-	20.1	-	-	8.2	925		10	-1	-1	-5	-6	-1	-2	-2	-	-4	-2	-2	-1	-	-1	-	-	-	-	0.98
35-36.2894-103.4403-2-06-						0-N06603-09/29/76-17-			20-	18.0	-	-	8.7	900		3	-1	-2	-4	-6	-1	-2	-2	-	-4	-3	-3	-1	-	-1	-	-	-	-	5.56
35-36.2725-103.4242-2-06-						0-N06604-09/29/76-17-			19-	18.9	-	-	8.2	150		6	-1	-1	-4	-6	-1	-2	-2	-	-4	-3	-4	-1	-	-1	-	-	-	-	0.10
35-36.2711-103.4467-2-06-						0-N06606-09/29/76-18-			19-	19.5	-	-	7.6	625		9	-1	-1	-4	-6	-1	-2	-3	-	-4	-3	-3	-1	-	-1	-	-	-	-	0.71
35-36.2858-103.4797-2-08-						0-N06607-09/29/76-19-			18-	16.0	-	-	8.1	450		10	-1	-1	-	-	-	-1	-	-4	-2	-2	-1	-	-1	-	-	-	-	6.42
35-36.3253-103.4717-2-08-						0-N06608-09/29/76-19-			17-	15.6	-C-	-	7.9	450		10	-1	-1	-	-	-	-1	-	-4	-2	-2	-1	-	-3	-1	8	-	-	2.42
35-36.6319-103.3025-2-08-						0-N06609-09/30/76-10-			24-	13.2	-C-	-	7.8	1100		14	-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-3	-1	-	-	-	7.56
35-36.6347-103.2869-2-08-						0-N06610-09/30/76-11-			24-	14.5	-C-	-	7.9	350		12	-1	-1	-	-	-	-1	-	-4	-3	-2	-1	-	-3	-1	-	-	-	9.16

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB 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 TYPE (FVF)	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
35-36.6419-103.3339-2-08-						0-N06611-09/30/76-11-			24-15.5-		-	-	8.0-	450-	9-1-1-	-	-	-	-	-1-	-4-3-2-1-		-3-1-10-			-	-	4.26
35-36.6436-103.3619-2-08-						0-N06612-09/30/76-11-			24-13.6-C-		-	-	7.9-	650-	11-1-1-	-	-	-	-	-1-	-4-2-1-1-		-3-1-			-	-	8.62
35-36.6692-103.3647-2-08-						0-N06613-09/30/76-12-			26-14.8-C-		-	-	8.8-	300-	6-1-1-	-	-	-	-	-3-	-4-2-3-1-		-3-1-			-	-	3.88
35-36.6628-103.3394-2-08-						0-N06614-09/30/76-12-			26-19.2-		-	-	8.7-	400-	9-1-1-	-	-	-	-	-1-	-4-2-2-1-		- -1-			-	-	7.33
35-36.6639-103.2717-2-08-						0-N06615-09/30/76-12-			26-18.0-		-	-	8.6-	450-	7-1-1-	-	-	-	-	-1-	-4-2-2-1-		-3-1-	6-		-	-	8.30
35-36.6814-103.2639-2-08-						0-N06616-09/30/76-13-			26-16.2-C-		-	-	8.9-	350-	18-1-1-	-	-	-	-	-1-	-4-3-2-1-		-3-1-	6-		-	-	7.07
35-36.6781-103.3097-2-08-						0-N06617-09/30/76-14-			26-16.6-C-		-	-	8.6-	425-	10-1-1-	-	-	-	-	-1-	-4-2-3-1-		- -1-	-		-	-	6.74
35-36.6556-103.2275-2-08-						0-N06618-09/30/76-14-			26-18.1-C-		-	-	7.9-	350-	13-1-1-	-	-	-	-	-1-	-4-3-2-1-		- -1-	-		-	-	5.95
35-36.6333-103.1444-2-08-						0-N06619-09/30/76-15-			26-19.1-		-	-	8.1-	675-	14-1-1-	-	-	-	-	-	-4-2-1-1-		- -1-	-		-	-	4.35
35-36.6267-103.1272-2-08-						0-N06620-09/30/76-15-			26-18.0-C-		-	-	9.5-	325-	0-1-1-	-	-	-	-	-1-	-4-2-1-1-		-3-1-	8-		-	-	1.89
35-36.7469-103.1467-2-08-						0-N06621-09/30/76-16-			26-17.5-		-	-	7.6-	500-	0-1-1-	-	-	-	-	-1-	-4-2-3-1-		- -1-10-			-	-	3.26
35-36.7353-103.1669-2-08-						0-N06622-09/30/76-16-			26-22.6-C-		-	-10.5-		400-	12-1-1-	-	-	-	-	-1-	-4-2-2-1-		-3-1-	-		-	-	0.52
35-36.7467-103.1953-2-08-						0-N06623-09/30/76-16-			26-21.1-		-	-	8.6-	750-	6-1-2-	-	-	-	-	-1-	-4-2-3-1-		- -1-10-			-	-	6.37
35-36.7436-103.2236-2-07-						0-N06624-09/30/76-17-			23-20.2-		-	-	8.0-	40-	11-1-1-5-6-1-4-2-1-4-2-3-1-								- - -	-		-	-	0.86
35-36.7147-103.2069-2-08-						0-N06625-09/30/76-17-			21-18.0-C-		-	-	8.5-	450-	7-1-1-	-	-	-	-	-1-	-4-2-2-1-		- -1-	-		-	-	4.62
35-36.8375-103.8383-2-08-						0-N06626-10/06/76-12-			8-11.0-		-	-	7.0-	325-	19-1-	-	-	-	-	-1-	-4-3-3-2-		-1-1-	6-		-	-	1.93
35-36.8183-103.8403-2-08-						0-N06627-10/06/76-13-			9- 9.0-		-	-	7.7-	425-	12-3-7-	-	-	-	-	-1-	-4-3-3-3-		-1-1-	6-		-	-	1.42
35-36.8217-103.8228-2-08-						0-N06628-10/06/76-13-			9- 9.5-		-	-	8.2-	365-	6-3-8-	-	-	-	-	-1-	-1-2-3-3-		-1-1-	6-		-	-	2.94
35-36.8139-103.7964-2-08-						0-N06629-10/06/76-13-			9- 8.0-		-	-	8.1-	260-	220-3-6-	-	-	-	-	-1-	-4-3-3-3-		-1-1-	6-		-	-	2.16
35-36.7992-103.8014-2-08-						0-N06630-10/06/76-14-			6-10.5-		-	-	7.4-	350-	5-1-	-	-	-	-	-1-	-4-3-2-4-		-1-1-	6-		-	-	3.11
35-36.8378-103.7328-2-08-						0-N06632-10/07/76-11-			- 9.2-		-	-	6.6-	600-	-1-4-	-	-	-	-	-1-	-4-3-2-5-		-1-1-	6-		-	-	4.16
35-36.8378-103.7114-2-08-						0-N06633-10/07/76-11-			-1-10.2-		-	-	7.0-	400-	-1-1-	-	-	-	-	-1-	-4-3-2-5-		-1-1-	6-		-	-	1.65
35-36.8478-103.6753-2-08-						0-N06634-10/07/76-11-			- 8.9-		-	-	7.2-	550-	-1-1-	-	-	-	-	-1-	-4-3-1-3-		-1-1-	5-		-	-	3.66
35-36.7214-103.2425-2-08-						0-N06635-09/30/76-18-			20-18.5-C-		-	-	7.8-	300-	12-1-1-	-	-	-	-	-1-	-4-2-2-1-		-3-1-	8-		-	-	2.89
35-36.6969-103.2378-2-07-						0-N06636-09/30/76-18-			20-19.4-		-	-	7.9-	550-	3-1-1-4-1-2-2-1-2-4-2-4-1-								- - -	-		-	-	5.95
35-36.6822-103.1889-2-08-						0-N06637-09/30/76-19-			18-17.4-C-		-	-	7.8-	625-	-1-1-	-	-	-	-	-1-	-4-3-2-1-		- -1-	6-		-	-	3.90
35-36.6422-103.1317-2-08-						0-N06638-10/02/76-12-			20-15.9-		-	-	7.5-	400-	18-1-1-	-	-	-	-	-	-4-2-2-3-		-3-1-	-		-	-	4.30
35-36.6425-103.1472-2-08-						0-N06639-10/02/76-12-			21-16.2-		-	-	7.6-	325-	10-1-1-	-	-	-	-	-1-	-4-2-3-3-		-3-1-	-		-	-	4.26
35-36.6608-103.1503-2-08-						0-N06640-10/02/76-12-			21-15.9-		-	-	7.6-	450-	9-1-1-	-	-	-	-	-1-	-4-2-2-3-		-3-1-	8-		-	-	4.57
35-36.6831-103.0792-2-08-						0-N06641-09/30/76-14-			27-19.8-C-		-	-	6.9-	720-	3-1-1-	-	-	-	-	-1-	-4-2-2-1-		-1-2-	6-		-	-	14.04
35-36.6814-103.1031-2-06-						0-N06642-09/30/76-15-			26-19.4-C-		-	-	7.7-	500-	3-1-1-4-6-	-	-	-	-	-1-	-4-2-2-1-		-3- -	-		-	-	4.23
35-36.6928-103.0650-2-08-						0-N06643-09/30/76-16-			29-19.7-C-		-	-	8.4-	410-	22-1-1-	-	-	-	-	-1-	-4-2-2-1-		-3-1-	8-		-	-	2.58
35-36.6922-103.0628-2-07-						0-N06644-09/30/76-16-			-23.2-C-		-	-	8.0-	340-	3-1-1-4-1-3-3-1-3-4-2-2-1-								-3- -	-		-	-	2.50
35-36.7125-103.0611-2-08-						0-N06645-09/30/76-16-			26-19.0-C-		-	-	7.2-	710-	8-1-1-	-	-	-	-	-1-	-4-2-3-1-		-1-2-	6-	160-	-	-	2.76
35-36.7172-103.0239-2-08-						0-N06646-09/30/76-17-			26-21.2-C-		-	-	7.9-	570-	10-1-1-	-	-	-	-	-1-	-4-2-2-1-		-1-1-	6-		-	-	4.58
35-36.6358-103.0839-2-08-						0-N06647-09/30/76-18-			24-18.7-C-		-	-	9.3-	290-	15-1-1-	-	-	-	-	-1-	-4-2-2-1-		-1-1-	-		-	-	6.06
35-36.5611-103.8425-2-08-						0-N06652-10/02/76-11-			14- 9.5-		-	-	7.5-	340-	-3-8-	-	-	-4-	-	-1-	-4-3-3-3-		-1-1-	-		-	-	2.04
35-36.5522-103.8706-2-08-						0-N06653-10/02/76-11-			14-10.2-		-	-	7.7-	305-	-3-8-	-	-	-3-	-	-1-	-4-3-3-3-		-1-1-	-		-	-	0.77
35-36.5328-103.8700-2-08-						0-N06654-10/02/76-12-			14-10.0-		-	-	6.6-	450-	-3-8-	-	-	-2-	-	-1-	-4-3-3-3-		-1-1-	-		-	-	0.98
35-36.5053-103.8506-2-08-						0-N06656-10/02/76-12-			14- 8.3-		-	-	7.4-	500-	-1-	-	-	-2-	-	-1-	-4-3-2-3-		-1-1-	-		-	-	3.54
35-36.5242-103.8247-2-08-						0-N06660-10/02/76-13-			14- 8.9-		-	-	7.5-	425-	-3-1-	-	-	-2-	-	-1-	-4-3-2-3-		-1-1-	-		-	-	0.10
35-36.5236-103.7653-2-08-						0-N06662-10/02/76-13-			13-10.1-		-	-	7.5-	370-	-3-8-	-	-	-2-	-	-1-	-4-3-2-3-		-3-1-	-		-	-	0.99
35-36.5344-103.7617-2-08-						0-N06663-10/02/76-14-			14-10.2-		-	-	6.6-	315-	-1-	-	-	-2-	-	-1-	-4-3-2-3-		-1-1-	-		-	-	0.97
35-36.5444-103.8033-2-08-						0-N06664-10/02/76-14-			16-10.5-		-	-	7.8-	305-	-1-	-	-	-2-	-	-1-	-4-3-2-2-		-1-8-	-		-	-	0.79
35-36.5892-103.7933-2-08-						0-N06665-10/02/76-16-			16-12.1-		-	-	7.3-	490-	-3-8-	-	-	-2-	-	-1-	-4-3-2-2-		-1-1-	-		-	-	0.56
35-36.6481-103.1814-2-08-						0-N06667-10/02/76-13-			21-16.5-		-	-	7.1-	375-	9-1-1-	-	-	-	-	-1-	-4-3-1-3-		- -1-	-		-	-	0.27
35-36.6558-103.2000-2-08-						0-N06668-10/02/76-14-			21-17.5-		-	-	7.5-	300-	25-1-1-	-	-	-	-	-1-	-4-3-2-3-		- -2-	-		-	-	3.60*
35-36.7089-103.2014-2-07-						0-N06669-10/02/76-15-			20-17.9-		-	-	7.9-	600-	13-1-1-4-1-3-2-1-2-4-2-3-3-								- - -	-		-	-	5.62
35-36.6706-103.1992-2-08-						0-N06670-10/02/76-16-			19-15.1-		-	-	7.6-	350-	8-1-1-	-	-	-	-	-1-	-4-2-2-3-		-3-1-	-		-	-	3.08
35-36.6747-103.1708-2-08-						0-N06671-10/02/76-19-			18-15.1-		-	-	7.8-	300-	7-1-1-	-	-	-	-	-1-	-4-3-3-2-		- -1-	8-		-	-	1.64
35-36.6797-103.1639-2-08-						0-N06673-10/03/76-16-			24-18.2-C-		-	-	8.1-	250-	9-1-1-	-	-	-	-	-1-	-4-3-3-1-		- -1-	-		-	-	1.89

APPENDIX I-A. (continued). Uranium Concentrations for Water 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)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
35-36.6956-103.1281-2-08-						0-N06674-10/03/76-16-	24-21.9-	-	-	7.6-	800-		14-1-1-	-	-	-	-1-	-4-2-3-1-	-	-	-1-	-	-	-	11.79
35-36.7353-103.2336-2-08-						0-N06675-10/03/76-17-	24-18.9-C-	-	-	8.0-	325-		10-1-1-	-	-	-	-1-	-4-3-2-1-	-	-	-	-	-	-	4.48
35-36.7494-103.2517-2-08-						0-N06676-10/03/76-17-	24-19.4-C-	-	-	7.7-	475-		18-1-6-	-	-	-	-1-	-4-3-2-1-	-3-1-	-	-	-	-	-	5.12
35-36.7411-103.2978-2-08-						0-N06677-10/03/76-17-	22-17.8-C-	-	-	7.9-	350-		7-1-1-	-	-	-	-1-	-4-3-2-1-	-	-	-1-	8-	-	-	3.85
35-36.7411-103.3239-2-08-						0-N06679-10/03/76-18-	20-18.8-	-	-	7.3-	750-		13-1-1-	-	-	-	-1-	-4-4-2-1-	-	-2-	-	-	-	-	9.02
35-36.4103-103.0797-2-08-						0-N06680-09/30/76- 9-	22-13.5-	-	-	7.0-	510-		-1-	-	-	-	-1-	-4-3-1-1-	-1-1-	6-	-	-	-	-	4.94
35-36.3814-103.0486-2-08-						0-N06681-09/30/76-10-	24-13.8-	-	-	6.2-	420-		-1-	-	-	-	-1-	-4-3-2-1-	-1-1-	6-	-	-	-	-	5.28
35-36.3942-103.0722-2-08-						0-N06682-09/30/76-10-	26-16.5-	-	-	7.2-	360-		-1-	-	-	-	-1-	-4-3-2-1-	-1-1-	6-	-	-	-	-	2.68
35-36.3833-103.1039-2-08-						0-N06683-09/30/76-10-	26-16.2-	-	-	6.9-	500-		-1-1-	-	-	-	-1-	-4-3-2-1-	-1-1-	6-	-	-	-	-	4.01
35-36.3856-103.1175-2-08-						0-N06685-09/30/76-11-	26-17.5-	-	-	7.6-	600-		-1-	-	-	-	-1-	-4-3-2-1-	-1-2-	6-	-	-	-	-	2.83
35-36.4164-103.1233-2-08-						0-N05686-09/30/76-12-	28-27.5-	-	-	7.6-	450-		-1-	-	-	-	-1-	-4-3-2-1-	-1-2-	6-	-	-	-	-	1.03
35-36.3986-103.1069-2-08-						0-N06687-09/30/76-11-	26-18.1-	-	-	8.6-	500-		-1-	-	-	-	-1-	-4-3-2-1-	-1-1-	6-	-	-	-	-	9.35
35-36.4242-103.0914-2-08-						0-N05688-09/30/76-12-	28-17.2-	-	-	7.8-	445-		-1-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	-	-	1.26
35-36.4386-103.0686-2-08-						0-N06689-09/30/76-12-	30-17.2-	-	-	7.8-	420-		-1-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-	-	-	-	-	3.48
48-36.3994-103.0231-2-08-						0-N05690-09/30/76-12-	28-19.3-	-	-	7.8-	500-		-1-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	-	-	2.48
48-36.4286-103.0392-2-08-						0-N06691-09/30/76-12-	26-17.0-	-	-	7.7-	385-		-1-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	-	-	3.25
48-36.4347-103.0061-2-08-						0-N06692-09/30/76-14-	30-17.5-	-	-	7.6-	450-		-1-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-	-	-	-	-	5.67
48-36.4494-103.0086-2-08-						0-N06693-09/30/76-14-	26-17.5-	-	-	7.8-	370-		-1-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-	-	-	-	-	1.74
48-36.4653-103.0239-2-08-						0-N06694-09/30/76-14-	29-17.9-	-	-	7.8-	450-		-1-	-	-	-	-1-	-4-3- -2-	-3-1-	6-	-	-	-	-	9.93
35-36.4758-103.0447-2-08-						0-N05695-09/30/76-15-	29-18.0-	-	-	8.0-	340-		-1-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-	-	-	-	-	3.78
48-36.4867-103.0097-2-08-						0-N06696-09/30/76-15-	26-20.5-	-	-	7.4-	380-		-1-	-	-	-	-2-	-4-3-2-2-	-1-1-	6-	-	-	-	-	4.70
35-36.4900-103.0519-2-08-						0-N06697-09/30/76-15-	26-18.0-	-	-	7.6-	460-		-1-	-	-	-	-	- -4-3-2-2-	-1-1-	6-	-	-	-	-	2.74
35-36.4603-103.0611-2-08-						0-N06698-09/30/76-16-	29-16.0-	-	-	7.6-	430-		-1-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-	-	-	-	-	7.61
35-36.4831-103.0778-2-08-						0-N06699-09/30/76-15-	25-16.0-	-	-	7.3-	600-		-1-	-	-	-	-1-	-4-3-2-2-	-1-2-	6-	-	-	-	-	4.32
35-36.4825-103.1003-2-08-						0-N06700-09/30/76-17-	25-18.0-	-	-	7.4-	420-		-1-	-	-	-	-1-	-4-3-1-2-	-1-2-	6-	-	-	-	-	4.85
35-36.4756-103.1211-2-08-						0-N06701-09/30/76-17-	24-14.0-	-	-	7.2-	1175-		-1-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	-	-	9.98
35-36.4519-103.0964-2-08-						0-N06702-09/30/76-17-	26-17.8-	-	-	6.4-	475-		-1-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	-	-	5.86
35-36.6436-103.7406-2-08-						0-N06703-10/03/76- 8-	16-13.5-	-	-	7.0-	245-		10-3-8-	-	-	-	-1-	-4-3-2-2-	-1-1-	-	-	-	-	-	0.34
35-36.6286-103.6297-2-08-						0-N06704-10/01/76-10-	15-12.5-	-	-	6.8-	245-		10-3-8-	-	-	-	-1-	-4-3-3-3-	-1-1-	6-	-	-	-	-	0.59
35-36.6253-103.6322-2-08-						0-N06705-10/01/76-10-	15-10.5-	-	-	7.0-	205-		13-3-8-	-	-	-	-1-	-4-3-3-3-	-1-1-	4-	-	-	-	-	0.72
35-36.6472-103.6286-2-08-						0-N06706-10/01/76-10-	17-12.5-	-	-	6.6-	310-		6-3-8-	-	-	-	-1-	-4-3-3-3-	-1-1-	-	-	-	-	-	0.80
35-36.6544-103.6722-2-08-						0-N06707-10/10/76-11-	18-13.0-	-	-	6.6-	235-		10-3-8-	-	-	-	-1-	-4-3-3-3-	-1-1-	6-	-	-	-	-	0.80
35-36.6617-103.6567-2-08-						0-N06708-10/01/76-11-	20-13.0-	-	-	6.5-	292-		13-3-8-	-	-	-	-1-	-4-3-3-3-	-1-1-	6-	-	-	-	-	1.33
35-36.6561-103.6981-2-08-						0-N06710-10/01/76-12-	19-11.5-	-	-	8.6-	175-		12-3-8-	-	-	-	-1-	-4-3-3-3-	-1-1-	6-	-	-	-	-	0.31
35-36.6533-103.7208-2-08-						0-N06711-10/01/76-13-	19-13.5-	-	-	7.2-	220-		9-3-8-	-	-	-	-1-	-4-3-2-3-	-1-1-	6-	-	-	-	-	0.10
35-36.6597-103.7372-2-08-						0-N06712-10/01/76-14-	19-14.0-	-	-	7.2-	215-		20-1-	-	-	-	-1-	-4-3-2-3-	-1-1-	6-	-	-	-	-	0.43
35-36.6794-103.7297-2-08-						0-N06713-10/01/76-14-	19-12.0-	-	-	8.0-	270-		10-3-8-	-	-	-	-1-	-4-3-3-3-	-1-1-	5-	-	-	-	-	0.93
35-36.6781-103.6753-2-08-						0-N06714-10/01/76-15-	20-13.0-	-	-	-	340-		10-1-	-	-	-	-1-	-4-3-2-2-	-1-1-	5-	-	-	-	-	1.28
35-36.6964-103.6817-2-08-						0-N06715-10/01/76- -	21-12.5-	-	-	6.8-	280-		11-1-	-	-	-	-1-	-4-3-2-2-	-1-1-	-	-	-	-	-	1.57
35-36.5772-103.7689-2-08-						0-N06716-10/02/76-16-	14-11.9-	-	-	7.4-	500-		-3-8-	-	-2-	-1-	-4-3-2-2-	-1-1-	-	-	-	-	-	1.29
35-36.5556-103.7819-2-08-						C-N06717-10/02/76-17-	16- 9.9-	-	-	7.4-	320-		-3-8-	-	-3-	-1-	-4-3-2-1-	-1-1-	-	-	-	-	-	1.21
35-36.5883-103.8292-2-08-						D-N06719-10/02/76-17-	15-10.2-	-	-	7.6-	310-		-3-8-	-	-3-	-1-	-4-3-2-1-	-1-1-	-	-	-	-	-	1.53
35-36.6228-103.8067-2-08-						0-N06721-10/02/76-18-	14- 9.9-	-	-	7.2-	330-		-3-8-	-	-3-	-1-	-4-3-2-1-	-1-1-	-	-	-	-	-	1.70
35-36.6242-103.7569-2-08-						0-N06723-10/02/76-18-	13- 9.0-	-	-	7.9-	300-		-3-8-	-	-3-	-1-	-4-3-3-1-	-1-1-	-	-	-	-	-	0.10
35-36.7644-103.0489-2-07-						0-N06724-10/03/76-13-	26-20.5-	-	-	8.6-	215-		-1-1-5-6-1-2-3-1-4-3-3-1-						-3-	-	-	-	-	1.10
35-36.7686-103.0894-2-07-						0-N06727-10/03/76-16-	29-18.5-	-	-	8.2-	290-		-1-4-5-6-1-2-2-					-2-3-3-1-	-3-	-	-	-	-	2.38
35-36.7778-103.1119-2-06-						0-N06728-10/03/76-16-	29-22.1-	-	-	7.4-	2850-		-1-4-5-6-2-2-1-					-2-3-3-1-	-3-	-	-	-	-	0.63
35-36.7619-103.2192-2-08-						0-N06729-10/04/76- 9-	5-12.1-	-	-	6.2-	600-		-1-	-	-	-3-	-1-	-4-3-2-4-	-1-1-	-	-	-	-	-	13.08
35-36.7575-103.2414-2-08-						0-N06730-10/04/76-10-	5-11.2-	-	-	7.8-	370-		-1-	-	-	-3-	-1-	-4-3-2-4-	-1-1-	-	-	-	-	-	3.55
35-36.7706-103.2161-2-08-						0-N06731-10/04/76-10-	5-12.1-	-	-	8.0-	600-		-1-	-	-	-2-	-1-	-4-3-2-4-	-1-1-	-	-	-	-	-	11.07
35-36.7564-103.1833-2-08-						0-N06732-10/04/76-10-	5-12.0-	-	-	7.5-	415-		-1-	-	-	-3-	-1-	-4-3-2-4-	-1-1-	-	-	-	-	-	3.84

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 MEASURMENTS	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 (ff) UNITS IN ppb
35-36.7514-103.1417-2-07-						0-N06733-10/04/76-11-			5-17.1-	-	-		7.9-	115-		-1-1-5-6-1-2-4-1-4-3-3-4-												-3-	-	-	-	-	0.10
35-36.7722-103.1256-2-06-						0-N06734-10/04/76-11-			5-15.1-	-	-		8.0-	155-		-1-4-5-6-2-2-3-												-4-3-3-4-	-3-	-	-	-	0.34
35-36.7908-103.1531-2-08-						0-N06735-10/04/76-12-			6-	-	-		7.7-	370-		-1-	-	-	-2-	-1-	-4-3-2-4-								-1-1-	-	-	-	-	3.88
35-36.7872-103.1644-2-08-						0-N06736-10/04/76-13-			7-13.1-	-	-		7.6-	510-		-1-1-	-	-3-	-1-	-4-3-2-4-								-1-1-	-	-	-	-	7.42
35-36.8283-103.1492-2-08-						0-N06737-10/04/76-12-			7-	-	-		8.3-	600-		-1-1-	-	-2-	-1-	-4-3-3-4-								-1-1-	-	-	-	-	1.71
35-36.4433-103.2681-2-06-						0-N06739-10/02/76-11-			22-20.3-	-	-		7.9-	500-		-1-1-5-8-2-2-1-					-4-3-2-3-							-3-	-	-	-	-	3.97
35-36.4433-103.3167-2-07-						0-N06740-10/02/76-11-			22-17.8-	-	-		8.0-	135-		-1-1-5-6-2-2-2-2-4-3-2-3-												-3-	-	-	-	-	0.10
35-36.4544-103.3425-2-07-						0-N06741-10/02/76-11-			22-18.1-	-	-		8.3-	95-		-3-8-4-6-1-2-2-2-4-3-2-3-												-3-	-	-	-	-	0.10
35-36.4672-103.3239-2-08-						0-N06743-10/02/76-14-			22-15.2-	-	-		8.8-	350-		-1-1-	-	-	-	-1-	-4-3-2-3-							-3-1-	3-	-	-	-	3.79
35-36.4850-103.2822-2-08-						0-N06746-10/02/76-16-			21-14.5-	-	-		7.7-	385-		-3-8-	-	-3-	-1-	-4-3-2-2-								-1-1-	6-	-	-	-	2.83
35-36.4892-103.2683-2-08-						0-N06747-10/02/76-18-			19-17.6-	-	-		7.7-	475-		-3-8-	-	-3-	-1-	-4-3-2-2-								-1-2-	3-	45-	23-		4.12
35-36.4981-103.3086-2-08-						0-N06748-10/02/76-18-			17-14.7-	-	-		7.7-	410-		-3-8-	-	-3-	-1-	-4-3-2-2-								-1-1-	6-	100-	-		1.55
35-36.4978-103.3353-2-08-						0-N06749-10/02/76-18-			16-14.2-	-	-		7.9-	500-		-3-8-	-	-3-	-1-	-4-3-2-2-								-1-1-	3-	-	-	-	2.57
35-36.3872-103.4961-2-08-						0-N06751-10/03/76-10-			20-14.4-	-	-		7.8-	440-		-3-8-	-	-3-	-1-	-4-3-3-2-								-1-1-	6-	-	-	-	6.13
35-36.4092-103.4878-2-08-						0-N06752-10/03/76-10-			20-14.1-	-	-		7.8-	390-		-1-1-	-	-3-	-1-	-4-3-2-2-								-1-1-11-		-	-		0.38
35-36.4311-103.4253-2-08-						0-N06753-10/03/76-11-			23-15.8-	-	-		7.7-	500-		-1-1-	-	-2-	-1-	-4-3-2-1-								-1-1-	6-	-	-	-	1.06
35-36.4464-103.4331-2-08-						0-N06754-10/03/76-12-			25-16.3-	-	-		7.5-	600-		-1-1-	-	-3-	-1-	-4-2-2-1-								-1-3-	3-	160-	120-		3.05
35-36.4536-103.4508-2-08-						0-N06755-10/03/76-13-			25-17.8-C-	-	-		8.7-	1350-		-1-1-	-	-	-	-1-	-4-3-2-1-							-1-1-	6-	90-	-		9.40
35-36.4656-103.4536-2-06-						0-N06756-10/03/76-13-			26-19.3-	-	-		8.9-	440-		-1-1-6-8-2-2-1-					-6-3-3-1-							-3-	-	-	-	-	1.96
35-36.4914-103.4650-2-08-						0-N06758-10/03/76-15-			25-18.7-C-	-	-		8.5-	250-		-3-8-	-	-	-	-1-	-4-3-2-1-							-3-1-	3-	-	-	-	1.17
35-36.7194-103.3000-2-08-						0-N06763-10/05/76-10-			16-18.9-	-	-		7.5-	825-		16-1-1-	-	-	-	-1-	-4-3-2-1-							- -2-	-	-	-	-	18.89
35-36.7200-103.2789-2-08-						0-N06764-10/05/76-11-			15-11.9-C-	-	-		8.3-	400-		13-1-1-	-	-	-	-1-	-4-2-3-1-							-3-1-	-	-	-	-	2.43
35-36.7117-103.2561-2-08-						0-N06765-10/05/76-11-			16-10.5-C-	-	-		7.9-	350-		14-1-1-	-	-	-	-1-	-4-3-2-1-							- -2-	-	-	-	-	5.89
35-36.7194-103.2681-2-08-						0-N06766-10/05/76-12-			16-11.5-C-	-	-		7.6-	350-		14-1-1-	-	-	-	-1-	-4-3-3-1-							- -1-	-	-	-	-	3.26
35-36.7167-103.2750-2-06-						0-N06767-10/05/76-12-			18-13.6-	-	-		7.9-	375-		9-1-1-4-6-	-	-	-1-	-4-4-3-1-								- - -	-	-	-	-	1.53
35-36.6800-103.3422-2-08-						0-N06769-10/05/76-14-			18-14.8-C-	-	-		7.9-	275-		16-1-6-	-	-	-	-1-	-4-3-2-1-							-3-1-	-	-	-	-	1.87
35-36.6856-103.3294-2-08-						0-N06771-10/05/76-14-			16-17.8-	-	-		8.4-	500-		16-1-1-	-	-	-	-1-	-4-2-2-1-							- -1-	-	-	-	-	1.31
35-36.6661-103.3103-2-08-						0-N06773-10/05/76-15-			14-14.5-	-	-		7.5-	400-		12-1-6-	-	-	-	-1-	-4-3-3-1-							-3-1-	-	-	-	-	8.59
35-36.6675-103.2897-2-08-						0-N06774-10/05/76-16-			14-14.9-C-	-	-		8.5-	250-		8-1-1-	-	-	-	-1-	-4-3-3-1-							-3-1-	-	-	-	-	4.61
35-36.6944-103.2856-2-06-						0-N06775-10/05/76-16-			13-16.2-	-	-		7.9-	100-		14-1-2-5-6-	-	-	-1-	-4-4-3-1-								- - -	-	-	-	-	0.93
35-36.6792-103.2853-2-08-						0-N06776-10/05/76-16-			13-13.2-C-	-	-		8.0-	400-		15-1-1-	-	-	-	-1-	-4-2-3-1-							-3-1-	-	-	-	-	5.60
35-36.5072-103.1303-2-08-						0-N06777-10/06/76-11-			16-14.9-	-	-		7.5-	300-		6-3-8-	-	-	-	-1-	-4-2-2-1-							-3-1-	8-	-	-	-	3.60
35-36.5508-103.1542-2-08-						0-N06778-10/06/76-11-			16-15.5-	-	-		7.6-	350-		16-3-8-	-	-	-	-1-	-4-2-4-1-							- -1-	8-	-	-	-	2.04
35-36.6069-103.1283-2-08-						0-N06780-10/06/76-12-			18-15.1-	-	-		7.6-	450-		19-1-1-	-	-	-	-1-	-4-3-2-1-							- -1-	-	-	-	-	3.85
35-36.6158-103.1625-2-08-						0-N06782-10/06/76-14-			17-15.4-	-	-		7.5-	300-		9-1-2-	-	-	-	-1-	-4-3-2-2-							- -1-	6-	-	-	-	5.19
35-36.6031-103.1783-2-08-						0-N06783-10/06/76-14-			15-14.8-	-	-		7.3-	450-		11-1-1-	-	-	-	-1-	-4-2-3-2-							-3-	-	-	-	-	3.94
35-36.5492-103.2303-2-08-						0-N06785-10/06/76-16-			12-14.3-	-	-		7.4-	300-		6-3-6-	-	-	-	-1-	-4-2-3-4-							- -1-	-	-	-	-	3.57
35-36.8631-103.8356-2-08-						0-N06788-10/07/76-12-			-2- 3.9-	-	-		7.2-	450-		-1-1-	-	-	-	-1-	-4-3-2-3-							-1-1-	6-	-	-	-	2.18
35-36.8717-103.5833-2-08-						0-N06789-10/07/76-12-			3-10.2-	-	-		7.0-	600-		-1-4-	-	-	-	-1-	-4-3-2-3-							-1-1-	6-	-	-	-	7.33
35-36.3603-103.1206-2-08-						0-N06790-10/03/76-13-			26-17.4-	-	-		7.7-	420-		-1-1-	-	-	-	-1-	-4-2-1-1-							-1-1-	6-	-	-	-	2.92
35-36.3572-103.0717-2-08-						0-N06791-10/03/76-13-			28-15.9-	-	-		6.7-	420-		-1-1-	-	-	-	-1-	-4-3-2-1-							-1-1-	8-	-	-	-	0.10
48-36.3664-103.0417-2-08-						0-N06792-10/03/76-14-			29-17.6-	-	-		7.8-	400-		-1-1-	-	-	-	-1-	-4-2-2-1-							-1-1-	4-	-	-	-	3.31
35-36.3025-103.0933-2-08-						0-N06794-10/03/76-15-			30-16.2-	-	-		7.2-	385-		-1-1-	-	-	-	-1-	-4-3-2-1-							-1-1-	6-	-	-	-	3.97
35-36.3261-103.0936-2-08-						0-N06795-10/03/76-16-			29-15.7-	-	-		7.2-	480-		-1-1-	-	-	-	-1-	-4-2-1-1-							-1-1-	6-	-	-	-	7.27
35-36.3333-103.1114-2-08-						0-N06796-10/03/76-16-			30-14.5-	-	-		7.1-	430-		-1-1-	-	-	-	-1-	-4-3-1-1-							-1-2-	6-	-	-	-	3.44
35-36.3328-103.0772-2-08-						0-N06797-10/03/76-16-			28-16.4-	-	-		7.0-	290-		-1-1-	-	-	-	-1-	-4-3-	-1-	-1-1-	6-	-	-	-	0.35
35-36.3331-103.0575-2-08-						0-N06798-10/03/76-16-			27-17.2-	-	-		6.6-	-		-1-1-	-	-	-	-1-	-4-3-1-1-							-1-3-	8-	-	-	-	0.67
35-36.3503-103.0547-2-08-						0-N06799-10/03/76-18-			18-16.2-	-	-		7.0-	480-		-1-1-	-	-	-	-1-	-4-3-1-1-							-1-3-	6-	210-	-		1.42
35-36.3019-103.0558-2-08-						0-N06800-10/05/76- 9-			12- 9.4-	-	-		7.5-	440-		-1-1-	-	-	-	-1-	-3-2-1-2-							-1-1-	6-	-	-	-	1.96
35-36.2822-103.0686-2-08-						0-N06801-10/05/76-10-			15-10.0-	-	-		7.3-	400-		-1-1-	-	-	-	-1-	-4-2-2-2-							-1-1-	6-	-	-	-	2.22
35-36.2800-103.0944-2-08-						0-N06802-10/05/76-10-			16- 8.2-	-	-		8.6-	300-		-1-1-	-	-	-	-1-	-4-2-2-2-							-1-1-	6-	-	-	-	3.77

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (µmho/cm)	SCINTILLOMETER (arb. units)	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
							DATE	HOUR																										
35-36.2758-103.1217-2-08-						0-N06803-10/05/76-11-			18-12.8-	-	-	-	7.9-	400-		-1-1-	-	-	-	-	-1-	-4-2-1-2-	-1-1-	8-	-	-	2.32
35-36.2819-103.0428-2-08-						0-N06804-10/05/76-11-			18-15.2-	-	-	-	8.5-	375-		-1-1-	-	-	-	-	-1-	-3-2-2-2-	-1-1-	6-	-	-	3.05
48-36.2906-103.0108-2-08-						0-N06805-10/05/76-12-			20-15.6-	-	-	-	7.5-	390-		-1-1-	-	-	-	-	-1-	-4-3-2-2-	-1-3-	8-	-	-	4.75
48-36.3311-103.0294-2-08-						0-N06806-10/05/76-12-			20-11.2-	-	-	-	7.2-	510-		-1-1-	-	-	-	-	-1-	-4-2-1-2-	-1-2-	5-	-	-	5.76
48-36.3481-103.0311-2-08-						0-N06807-10/05/76-12-			21-21.2-	-	-	-	7.4-	490-		-1-1-	-	-	-	-	-1-	-4-4-1-2-	-1-3-	-	-	-	4.08
35-36.3583-103.1639-2-08-						0-N06808-10/05/76-13-			21-14.2-	-	-	-	7.2-	500-		-1-1-	-	-	-	-	-1-	-4-2-2-2-	-1-1-	6-	-	-	4.64
35-36.3508-103.1361-2-08-						0-N06809-10/05/76-13-			20-14.0-	-	-	-	7.6-	600-		-1-1-	-	-	-	-	-1-	-3-5-2-2-	-1-2-	6-	-	-	2.35
35-36.3328-103.1472-2-08-						0-N06810-10/05/76-15-			18-13.2-	-	-	-	7.4-	400-		-1-1-	-	-	-	-	-1-	-4-2-2-2-	-1-1-	6-	-	-	2.12
35-36.3553-103.2000-2-08-						0-N06811-10/05/76-15-			21-15.7-	-	-	-	6.9-	390-		-1-1-	-	-	-	-	-1-	-4-4-1-2-	-1-3-	6-	-	-	3.64
35-36.3536-103.2192-2-08-						0-N06812-10/05/76-16-			20-13.6-	-	-	-	7.5-	360-		-1-1-	-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	2.31
35-36.3286-103.1844-2-08-						0-N06813-10/05/76-16-			20-13.8-	-	-	-	7.7-	375-		-1-1-	-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-	-	-	6.25
35-36.3328-103.2292-2-08-						0-N06814-10/05/76-16-			20-14.0-	-	-	-	7.3-	440-		-1-1-	-	-	-	-	-1-	-4-2-1-2-	-1-1-	8-	-	-	4.86
35-36.3189-103.2175-2-08-						0-N06815-10/05/76-16-			20-13.6-	-	-	-	7.2-	510-		-1-1-	-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-135-		-	4.19
35-36.3081-103.2208-2-08-						0-N06816-10/05/76-16-			20-14.3-	-	-	-	7.5-	320-		-1-1-	-	-	-	-	-1-	-4-2-1-2-	-1-2-	6-	-	-	2.13
35-36.2958-103.2022-2-08-						0-N06817-10/05/76-17-			20-13.8-	-	-	-	7.1-	510-		-1-1-	-	-	-	-	-1-	-4-3-1-2-	-1-2-	6-	-	-	4.11
35-36.3033-103.1833-2-08-						0-N06818-10/05/76-17-			18-11.9-	-	-	-	7.5-	410-		-1-1-	-	-	-	-	-1-	-4-3-2-2-	-1-1-	5-	-	-	2.73
35-36.2758-103.1950-2-08-						0-N06819-10/05/76-17-			18-16.2-	-	-	-	7.5-	420-		-1-1-	-	-	-	-	-1-	- - -2-2-	-1-2-	4- 85-		-	2.55
35-36.2756-103.2244-2-08-						0-N06820-10/05/76-17-			16-13.7-	-	-	-	7.2-	620-		-1-1-	-	-	-	-	-1-	-4-3-2-2-	-1-3-	6-110-		-	12.80
35-36.2606-103.2339-2-08-						0-N06821-10/05/76-17-			16-13.6-	-	-	-	6.9-	340-		-1-1-	-	-	-	-	-1-	-4-3-2-2-	-1-3-	6-400-		-	2.57
35-36.2550-103.1853-2-08-						0-N06822-10/05/76-18-			14-13.1-	-	-	-	7.0-	-		-1-1-	-	-	-	-	-	-4-3-2-2-	-1-2-	6-	-	-	3.26
35-36.2611-103.1514-2-08-						0-N06823-10/05/76-18-			15-13.8-	-	-	-	7.2-	440-		-1-1-	-	-	-	-	-	-4-2-2-2-	-1-1-	6-	-	-	2.61
35-36.2533-103.1300-2-08-						0-N06824-10/05/76-18-			14-13.2-	-	-	-	7.2-	320-		-1-1-	-	-	-	-	-1-	-4-2-2-2-	-1-1-	8-	-	-	1.79
35-36.2753-103.1444-2-08-						0-N06825-10/05/76-18-			14-13.6-	-	-	-	7.1-	-		-1-1-	-	-	-	-	-1-	-3-3-2-2-	-1-1-	5-	-	-	3.50
35-36.2900-103.1256-2-08-						0-N06826-10/05/76-19-			14-13.0-	-	-	-	6.9-	410-		-1-1-	-	-	-	-	-1-	-3-3-1-2-	-1-1-	6-	-	-	0.47
35-36.3800-103.1861-2-08-						0-N06827-10/06/76-10-			12-13.1-	-	-	-	6.9-	440-		-1-1-	-	-	-	-	-1-	-4-2-1-2-	-1-1-	6-	-	-	3.90
35-36.3797-103.2358-2-08-						0-N06828-10/06/76-10-			12-12.8-	-	-	-	7.1-	580-		-1-1-	-	-	-	-	-1-	-4-2-2-3-	-1-1-	6-	-	-	3.32
35-36.4308-103.1794-2-08-						0-N06829-10/06/76-11-			14-13.6-	-	-	-	7.1-	440-		-1-1-	-	-	-	-	-1-	-4-3-1-2-	-1-1-	6-	-	-	3.56
35-36.3983-103.1442-2-08-						0-N06830-10/06/76-11-			14-13.8-	-	-	-	7.2-	480-		-1-1-	-	-	-	-	-1-	-4-2-1-2-	-1-1-	6-	-	-	3.43
35-36.9428-103.2825-2-08-						0-N06831-10/06/76-13-			14-14.0-	-	-	-	7.2-	670-		-1-3-	-	-	-	-	-1-	-4-2-4-3-	-1-1-	-	-	-	6.52
35-36.9986-103.2731-2-08-						0-N06832-10/06/76-14-			14-13.2-	-	-	-	6.9-	960-		-1-3-	-	-	-	-	-1-	-3-2-4-3-	-1-1-	5-	-	-	11.30
35-36.9864-103.2878-2-08-						0-N06833-10/07/76- 9-			4-13.0-	-	-	-	8.9-	65-		-1-3-	-	-	-	-	-1-	-4-2-3-3-	-1-2-	8-100-		-	8.68
35-36.9908-103.3494-2-08-						0-N06834-10/07/76-10-			4-12.6-	-	-	-	7.4-	600-		-1-4-	-	-	-	-	-1-	-4-3-4-3-	-1-1-	8-	-	-	4.03
35-36.9719-103.3075-2-08-						0-N06835-10/07/76-10-			4-16.0-	-	-	-	6.9-	950-		-1-4-	-	-	-	-	-1-	-4-3-2-4-	-1-3-	-	-	-	16.70
35-36.9486-103.3186-2-08-						0-N06836-10/07/76-11-			4-12.2-	-	-	-	6.9-	950-		-1-4-	-	-	-	-	-1-	-4-2-4-4-	-1-1-	5-	-	-	10.55
35-36.9206-103.3272-2-08-						0-N06837-10/07/76-11-			5-12.8-	-	-	-	6.7-	900-		-1-3-	-	-	-	-	-1-	-4-2-3-3-	-1-1-	6-	-	-	10.04
35-36.8844-103.3553-2-08-						0-N06838-10/07/76-12-			4-13.1-	-	-	-	6.5-	1200-		-1-1-	-	-	-	-	-1-	-4-2-4-4-	-1-1-	5-	-	-	18.83*
35-36.9153-103.3653-2-08-						0-N06839-10/07/76-14-			4-10.2-	-	-	-	6.9-	700-		-1-4-	-	-	-	-	-1-	-4-2-3-3-	-1-1-	6-	-	-	17.49
35-36.7625-103.8897-2-08-						0-N06840-10/05/76- 8-			7- 6.5-	-	-	-	7.8-	405-		15-3-8-	-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	3.75
35-36.7558-103.9056-2-08-						0-N06841-10/05/76- 8-			9- 6.5-	-	-	-	7.3-	410-		12-3-8-	-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	2.06
35-36.7514-103.9242-2-08-						0-N06842-10/05/76- 8-			9- 5.0-	-	-	-	7.8-	230-		12-3-8-	-	-	-	-	-1-	-4-3-2-2-	-1-1-	6-	-	-	2.89
35-36.7786-103.9794-2-08-						0-N06843-10/05/76- 9-			10-17.5-	-	-	-	7.7-	245-		10-3-8-	-	-	-	-	-1-	-1-3-4-2-	-1-3-	-	-	-	1.77
35-36.8100-103.9808-2-08-						0-N06844-10/05/76- 9-			10- 9.5-	-	-	-	7.8-	275-		19-3-6-	-	-3-3-1-2-1-3-3-2-					-1-	-	-	-	0.58
35-36.8356-103.9258-2-08-						0-N06845-10/05/76-11-			11-11.0-	-	-	-	8.4-	265-		17-3-8-	-	-	-	-	-1-	-1-3-3-2-	-1-1-	6-	-	-	4.29
35-36.8508-103.9300-2-08-						0-N06846-10/05/76-13-			11-12.0-	-	-	-	7.8-	600-		17-3-8-	-	-	-	-	-1-	-1-3-2-2-	-1-1-	6-	-	-	1.37
35-36.8514-103.9489-2-08-						0-N06847-10/05/76-13-			12-16.0-	-	-	-	7.2-	750-		52-3-8-	-	-	-	-	-3-	-2-3-2-2-	-1-2-	-	-	-	9.13
35-36.8683-103.9700-2-08-						0-N06848-10/05/76-13-			12-11.0-	-	-	-	7.5-	1100-		19-3-7-	-	-	-	-	-1-	-2-3-2-2-	-1-1-	-	-	-	4.80
35-36.8733-103.9792-2-08-						0-N06849-10/05/76-14-			13-10.5-	-	-	-	7.2-	420-		12-3-8-	-	-	-	-	-1-	-1-3-3-3-	-1-1-	-	-	-	0.90
35-36.8633-103.9797-2-08-						0-N06850-10/05/76-14-			13-11.0-	-	-	-	7.2-	280-		3-1-	-	-	-	-	-1-	-2-3-3-3-	-1-3-	-	-	-	0.84
35-36.8542-103.8847-2-08-						0-N06851-10/05/76-15-			12-12.5-	-	-	-	7.2-	600-		17-3-6-	-	-	-	-	-1-	-1-2-3-3-	-1-2-	-	-	-	2.97
35-36.8731-103.8769-2-07-						0-N06852-10/05/76-15-			12-11.0-	-	-	-	8.0-	415-		21-3-8-	-	-	-	-	-1-2-	-1-3-4-3-	-1-	-	-	-	2.23
35-36.8225-103.9008-2-08-						0-N06854-10/05/76-16-			13-10.0-	-	-	-	7.3-	560-		3-3-6-	-	-	-	-	-1-	-4-3-3-3-	-1-1-	-	-	-	6.64

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (μmho/cm)	SCINTILLOMETER (relative 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
35-	36.8067-	103.8975-	2-	08-	0-	N06855-	10/05/76-	17-	11-	10.0-	-	-	7.2-	470-	10-	3-	7-	-	-	-	-1-	-4-	3-	3-	3-	-1-	1-	6-	-	-	-	4.76
35-	36.7942-	103.8917-	2-	08-	0-	N06856-	10/05/76-	17-	9-	10.0-	-	-	7.2-	800-	13-	3-	7-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	-	-	-	-	4.29
35-	36.8006-	103.9028-	2-	08-	0-	N06857-	10/05/76-	17-	10-	12.0-	-	-	7.3-	370-	9-	3-	6-	-	-	-	-1-	-4-	3-	2-	3-	-1-	8-	-	-	-	-	2.28
35-	36.8114-	103.9175-	2-	08-	0-	N06858-	10/05/76-	18-	8-	10.0-	-	-	7.1-	410-	10-	3-	8-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	-	-	-	-	4.95
35-	36.8064-	103.9308-	2-	08-	0-	N06859-	10/05/76-	18-	8-	11.0-	-	-	7.1-	280-	12-	3-	8-	-	-	-	-1-	-4-	3-	3-	3-	-1-	1-	-	-	-	-	4.51
35-	36.7853-	103.9319-	2-	08-	0-	N06860-	10/05/76-	19-	6-	5.5-	C-	-	8.6-	370-	10-	3-	8-	-	-	-	-2-	-4-	3-	3-	3-	-1-	1-	-	-	-	-	3.99
35-	36.7531-	103.9586-	2-	08-	0-	N06861-	10/06/76-	8-	7-	5.5-	-	-	7.2-	255-	13-	3-	8-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	-	-	-	-	3.83
35-	36.7606-	103.9636-	2-	08-	0-	N06862-	10/06/76-	8-	8-	8.0-	-	-	7.4-	1350-	8-	3-	8-	-	-	-	-1-	-4-	3-	2-	3-	-1-	1-	-	-	-	-	24.43
35-	36.7936-	103.9933-	2-	08-	0-	N06863-	10/04/76-	13-	7-	12.2-	-	-	7.9-	600-	-1-	1-	-	-	-	-	-1-	-4-	3-	3-	3-	-3-	1-	-	-	-	-	5.32
35-	36.8081-	103.2344-	2-	08-	0-	N06864-	10/04/76-	14-	7-	13.2-	-	-	7.3-	750-	-1-	1-	-	-2-	-1-	-	-4-	-3-	3-	3-	3-	-1-	1-	-	-	-	-	5.82
35-	36.7797-	103.2117-	2-	08-	0-	N06865-	10/04/76-	14-	8-	17.2-	-	-	7.5-	600-	-1-	1-	-	-2-	-1-	-	-4-	-3-	3-	3-	3-	-1-	8-	-	-	-	-	6.01
35-	36.7600-	103.1108-	2-	08-	0-	N06866-	10/04/76-	15-	8-	14.5-	-	-	7.5-	470-	-1-	4-	5-	6-	2-	2-	1-	-2-	3-	3-	3-	-3-	-	-	-	-	-	4.13
35-	36.7672-	103.1078-	2-	08-	0-	N06867-	10/04/76-	16-	7-	12.5-	-	-	7.3-	390-	-1-	1-	-	-3-	-1-	-	-2-	-3-	3-	3-	3-	-1-	8-	-	-	-	-	3.45
35-	36.7661-	103.1042-	2-	08-	0-	N06868-	10/04/76-	16-	7-	16.8-	-	-	7.6-	750-	-1-	4-	-	-3-	-1-	-	-2-	-3-	3-	3-	3-	-1-	1-	-	-	30-	-	9.17
35-	36.7675-	103.0117-	2-	08-	0-	N06869-	10/04/76-	16-	6-	12.1-	-	-	7.3-	500-	-1-	-	-	-3-	-1-	-	-4-	-3-	2-	3-	3-	-1-	1-	-	-	-	-	4.79
35-	36.7506-	103.0056-	2-	08-	0-	N06870-	10/04/76-	16-	7-	14.2-	-	-	7.2-	600-	-1-	1-	-	-2-	-1-	-	-4-	-3-	2-	3-	3-	-1-	1-	-	-	-	-	8.29
35-	36.7769-	103.0164-	2-	08-	0-	N06871-	10/04/76-	16-	6-	15.1-	-	-	7.1-	550-	-1-	-	-	-3-	-1-	-	-4-	-3-	2-	3-	3-	-1-	1-	-	-	-	-	3.27
35-	36.8047-	103.0031-	2-	08-	0-	N06873-	10/04/76-	17-	6-	11.2-	-	-	7.4-	810-	-1-	4-	-	-2-	-1-	-	-2-	-3-	3-	3-	3-	-1-	1-	-	-	-	-	64.60*
35-	36.8122-	103.0278-	2-	08-	0-	N06874-	10/04/76-	17-	6-	12.1-	-	-	7.8-	580-	-1-	1-	-	-3-	-1-	-	-2-	-3-	3-	3-	3-	-1-	1-	-	-	-	-	18.43
35-	36.8411-	103.0258-	2-	07-	0-	N06875-	10/04/76-	17-	7-	16.5-	-	-	7.8-	380-	-1-	4-	5-	6-	1-	2-	2-	1-	2-	3-	3-	3-	3-	-	-	-	-	-	0.85
35-	36.8722-	103.0422-	2-	07-	0-	N06877-	10/05/76-	11-	22-	16.9-	-	-	8.3-	290-	-1-	1-	5-	1-	1-	2-	1-	1-	4-	3-	3-	1-	3-	-	-	-	-	-	2.77
35-	36.8564-	103.1878-	2-	08-	0-	N06883-	10/06/76-	15-	20-	12.5-	-	-	7.8-	650-	-1-	4-	-	-2-	-1-	-	-4-	-3-	3-	1-	-1-	1-	-	-	-	-	-	16.18
35-	36.8383-	103.1803-	2-	08-	0-	N06884-	10/05/76-	15-	20-	12.1-	-	-	7.8-	700-	-1-	4-	-	-2-	-1-	-	-4-	-3-	3-	1-	-1-	1-	-	-	-	-	-	5.10
35-	36.9072-	103.0575-	2-	08-	0-	N06889-	10/05/76-	17-	18-	12.1-	-	-	7.6-	850-	-1-	3-	-	-2-	-1-	-	-4-	-3-	4-	2-	-1-	1-	-	-	-	-	-	20.32
35-	36.9250-	103.1250-	2-	08-	0-	N06891-	10/05/76-	17-	16-	11.9-	-	-	7.8-	1050-	-1-	4-	-	-3-	-1-	-	-4-	-3-	4-	2-	-1-	1-	-	-	-	-	-	39.26
35-	36.9211-	103.0678-	2-	08-	0-	N06892-	10/05/76-	17-	18-	10.2-	-	-	7.6-	1400-	-1-	3-	-	-3-	-1-	-	-4-	-3-	4-	2-	-1-	1-	-	-	-	-	-	35.47
35-	36.8900-	103.0322-	2-	08-	0-	N06893-	10/06/76-	10-	16-	12.1-	-	-	7.6-	850-	-1-	1-	-	-3-	-1-	-	-4-	-3-	3-	3-	-1-	1-	-	-	-	-	-	6.75
35-	36.8872-	103.0506-	2-	08-	0-	N06894-	10/06/76-	10-	12-	12.1-	-	-	7.7-	1100-	-1-	3-	-	-2-	-1-	-	-4-	-3-	3-	3-	-1-	1-	-	-	-	-	-	105.24*
35-	36.9853-	103.0456-	2-	06-	0-	N06895-	10/06/76-	11-	12-	9.2-	-	-	8.1-	140-	-1-	3-	5-	6-	1-	2-	1-	-4-	3-	3-	3-	-3-	-	-	-	-	-	0.56
35-	36.9903-	103.0717-	2-	08-	0-	N06896-	10/06/76-	12-	12-	11.1-	-	-	7.6-	1320-	-1-	3-	-	-3-	-1-	-	-4-	-3-	3-	3-	-1-	1-	-	-	-	-	-	36.21
35-	36.9672-	103.0756-	2-	06-	0-	N06897-	10/06/76-	12-	12-	10.0-	C-	-	7.8-	500-	-1-	3-	-	-3-	-1-	-	-4-	-3-	3-	3-	-1-	-	-	-	-	-	-	10.36
35-	36.9794-	103.0919-	2-	08-	0-	N06898-	10/06/76-	12-	12-	12.5-	-	-	7.7-	1250-	-1-	3-	-	-2-	-1-	-	-4-	-3-	3-	3-	-1-	1-	-	-	-	-	-	38.50*
35-	36.9833-	103.1197-	2-	06-	0-	N06899-	10/06/76-	12-	13-	11.8-	C-	-	7.5-	600-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.70
35-	36.7625-	103.2669-	2-	08-	0-	N06900-	10/04/75-	10-	8-	14.0-	-	-	7.7-	500-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	4-	-1-	1-	1-	6-	-	-	-	1.97
35-	36.7728-	103.2605-	2-	08-	0-	N06901-	10/04/75-	10-	8-	13.8-	-	-	7.8-	400-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	4-	-1-	1-	1-	6-	-	-	-	6.20
35-	36.7703-	103.2931-	2-	08-	0-	N06903-	10/04/75-	10-	8-	13.5-	-	-	7.8-	600-	-1-	1-	-	-3-	-1-	-	-2-	-2-	2-	4-	-1-	1-	1-	12-	-	-	-	6.41
35-	36.7661-	103.3056-	2-	08-	0-	N06904-	10/04/75-	11-	8-	14.1-	-	-	7.7-	430-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	4-	-1-	1-	1-	6-	-	-	-	5.77
35-	36.7761-	103.3064-	2-	08-	0-	N06905-	10/04/75-	11-	8-	14.3-	-	-	7.9-	470-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	4-	-1-	1-	1-	6-	-	-	-	0.72
35-	36.7639-	103.3458-	2-	08-	0-	N06906-	10/04/75-	12-	8-	14.0-	-	-	7.8-	600-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	4-	-1-	1-	1-	2-	-	-	-	5.02
35-	36.7728-	103.3314-	2-	08-	0-	N06907-	10/04/75-	12-	10-	13.8-	-	-	8.0-	500-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	3-	-1-	1-	1-	6-	-	-	-	3.13
35-	36.7878-	103.3419-	2-	08-	0-	N06908-	10/04/75-	13-	10-	14.0-	-	-	7.8-	425-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	4-	-1-	1-	1-	6-	-	-	-	5.08
35-	36.7953-	103.3581-	2-	08-	0-	N06909-	10/04/76-	13-	10-	15.3-	-	-	7.6-	485-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	3-	-1-	1-	1-	6-	-	-	-	3.91
35-	36.7972-	103.3450-	2-	08-	0-	N06910-	10/04/76-	14-	11-	15.1-	-	-	7.8-	630-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	3-	-1-	1-	1-	2-	-	-	-	4.78
35-	36.8081-	103.3475-	2-	06-	0-	N06911-	10/04/76-	14-	11-	11.8-	-	-	7.8-	700-	-1-	1-	5-	6-	2-	2-	1-	-2-	3-	2-	3-	-3-	-	-	-	-	-	5.30
35-	36.8314-	103.3619-	2-	08-	0-	N06912-	10/04/76-	15-	10-	13.7-	-	-	7.7-	800-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	3-	-1-	1-	1-	3-	-	-	-	9.75
35-	36.8600-	103.3356-	2-	08-	0-	N06913-	10/04/76-	16-	9-	12.3-	C-	-	8.3-	1900-	-1-	1-	-	-	-	-	-1-	-2-	2-	3-	3-	-3-	1-	3-	-	-	-	1457.65*
35-	36.8631-	103.2925-	2-	08-	0-	N06914-	10/04/76-	16-	9-	13.8-	-	-	7.9-	1400-	-1-	3-	-	-2-	-1-	-	-4-	-3-	3-	3-	-1-	1-	1-	6-	-	-	-	75.26*
35-	36.8706-	103.2569-	2-	08-	0-	N06915-	10/04/76-	16-	9-	14.1-	-	-	7.7-	1500-	-1-	1-	-	-2-	-1-	-	-1-	-3-	3-	3-	-1-	1-	1-	5-	-	-	-	33.84*
35-	36.8008-	103.3056-	2-	08-	0-	N06916-	10/04/76-	17-	9-	13.8-	-	-	7.9-	700-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	3-	-1-	1-	1-	6-	-	-	-	3.78
35-	36.8067-	103.2775-	2-	06-	0-	N06917-	10/04/76-	17-	9-	17.6-	-	-	7.0-	800-	-1-	1-	-	-3-	-1-	-	-2-	-3-	2-	3-	-1-	-	-	-	-	-	-	8.26
35-	36.8261-	103.2733-	2-	08-	0-	N06918-	10/04/76-	17-	8-	13.7-	-	-	7.8-	750-	-1-	1-	-	-3-	-1-	-	-4-	-3-	2-	3-	-1-	1-	1-	6-	-	-	-	3.14

APPENDIX I-A. (continued). Uranium Concentrations for Water 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)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
35-36.8431-	103.2789-2-08-		0-	N06919-	10/04/76-	18-	8-	14.2-	-	-	-	7.7-	1500-		-1-	1-	-	-2-	-1-	-4-	3-	2-	3-	-1-	1-	6-	-	-	12.88					
35-36.8361-	103.2575-2-08-		0-	N06920-	10/04/76-	18-	8-	14.1-	-	-	-	7.9-	2000-		-1-	1-	-	-2-	-1-	-4-	3-	2-	3-	-1-	1-	6-	-	-	1.77					
35-36.8069-	103.2692-2-08-		0-	N06921-	10/04/76-	18-	8-	19.6-	-	-	-	7.7-	1000-		-1-	1-	-	-3-	-1-	-4-	3-	3-	3-	-1-	3-	-	-	-	2.38					
35-36.7817-	103.4303-2-08-		0-	N06922-	10/05/76-	9-	11-	14.1-	-	-	-	7.9-	500-		-1-	1-	-	-2-	-1-	-4-	3-	2-	1-	-1-	1-	6-	-	-	4.42					
35-36.7517-	103.3100-2-08-		0-	N06923-	10/04/76-	9-	8-	13.1-	-	-	-	7.9-	450-		-1-	1-	-	-3-	-1-	-4-	3-	2-	4-	-1-	1-	6-	-	-	3.35					
35-36.7558-	103.2742-2-08-		0-	N06924-	10/04/76-	9-	8-	13.7-	-	-	-	7.8-	500-		-1-	1-	-	-3-	-1-	-4-	3-	2-	4-	-1-	1-	6-	-	-	2.17					
35-36.7631-	103.4056-2-06-		0-	N06925-	10/05/76-	10-	11-	12.8-	-	-	-	7.6-	500-		-1-	3-	-	-2-	2-	1-	-6-	3-	3-	1-	-3-	-	-	-	2.74					
35-36.7692-	103.2772-2-06-		0-	N06926-	10/05/76-	10-	13-	18.7-	-	-	-	7.9-	600-		-1-	1-	-	-2-	2-	1-	-6-	3-	3-	1-	-3-	-	-	-	0.81					
35-36.7747-	103.3936-2-08-		0-	N06927-	10/05/76-	11-	15-	14.4-	-	-	-	7.7-	1050-		-1-	1-	-	-2-	-1-	-4-	3-	2-	1-	-1-	1-	6-	-	-	0.22					
35-36.8100-	103.4039-2-08-		0-	N06928-	10/05/76-	11-	15-	-	-	-	-	7.8-	700-		-1-	1-	-	-2-	-1-	-4-	3-	2-	1-	-1-	1-	8-	-	-	3.72					
48-36.0136-	102.4719-2-08-		0-	N06929-	06/07/78-	10-	24-	18.2-	C-	-	-	7.4-	1950-		10-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	-3-	-500-	-	-	4.19					
48-36.0161-	102.4281-2-08-		0-	N06931-	06/07/78-	10-	26-	19.2-	-	-	-	7.4-	1900-		6-	1-	6-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	1-	-	-	-	7.31					
48-36.0453-	102.4053-2-08-		0-	N06932-	06/07/78-	11-	27-	18.4-	C-	-	-	7.2-	1825-		8-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	2.57					
48-36.0656-	102.4464-2-08-		0-	N06933-	06/07/78-	11-	27-	18.8-	C-	-	-	7.2-	1700-		10-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	4.62					
48-36.0867-	102.4397-2-08-		0-	N06935-	06/07/78-	11-	26-	20.6-	C-	-	-	7.1-	1700-		6-	1-	1-	-	-1-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	8-	-	-	0.35					
48-36.0894-	102.4911-2-08-		0-	N06936-	06/07/78-	11-	27-	18.4-	C-	-	-	7.2-	1900-		11-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-494-	-		7.37*					
48-36.1119-	102.4547-2-08-		0-	N06937-	06/07/78-	12-	27-	19.8-	C-	-	-	7.3-	1800-		10-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	3.25					
48-36.1228-	102.4808-2-08-		0-	N06938-	06/07/78-	12-	28-	19.4-	-	-	-	7.1-	2000-		6-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	1-	3-	-	-	2.40					
48-36.0653-	102.4797-2-08-		0-	N06939-	06/07/78-	12-	28-	22.4-	C-	-	-	7.3-	2100-		6-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	5.73					
48-36.0433-	102.4767-2-08-		0-	N06940-	06/07/78-	12-	28-	29.5-	C-	-	-	7.3-	2500-		5-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	3.42					
48-36.0369-	102.4319-2-08-		0-	N06941-	06/07/78-	13-	27-	17.6-	C-	-	-	7.1-	1700-		11-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	5.27					
48-36.0642-	102.4122-2-08-		0-	N06942-	06/07/78-	13-	28-	19.8-	C-	-	-	7.1-	1700-		6-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-200-	-		3.17					
48-36.0672-	102.3503-2-08-		0-	N06943-	06/07/78-	13-	28-	19.1-	C-	-	-	7.1-	2000-		10-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	3.53					
48-36.0361-	102.3700-2-08-		0-	N06944-	06/07/78-	14-	29-	19.6-	C-	-	-	7.2-	1950-		10-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	4.45					
48-36.0044-	102.3183-2-08-		0-	N06945-	06/07/78-	14-	29-	17.6-	-	-	-	7.3-	1800-		4-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	2-	3-	-	-	3.20					
48-36.0039-	102.2928-2-08-		0-	N06946-	06/07/78-	14-	29-	18.4-	C-	-	-	7.3-	1900-		7-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	4.45					
48-36.0411-	102.2928-2-08-		0-	N06947-	06/07/78-	14-	29-	19.4-	C-	-	-	7.3-	2050-		10-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	-	-	-	3.20					
48-36.0403-	102.3144-2-08-		0-	N06949-	06/07/78-	14-	29-	19.6-	C-	-	-	7.4-	1900-		6-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	4.62					
48-36.0703-	102.3161-2-08-		0-	N06949-	06/07/78-	15-	28-	19.8-	C-	-	-	7.4-	1900-		9-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	-250-	-		5.15					
48-36.0575-	102.2608-2-08-		0-	N06950-	06/07/78-	15-	29-	19.4-	C-	-	-	7.5-	1800-		5-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	5.23					
48-36.1106-	102.2567-2-08-		0-	N06951-	06/07/78-	16-	28-	19.8-	-	-	-	7.6-	2000-		5-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	2-	-1-	1-	3-	-	-	4.92					
48-36.0875-	102.2925-2-08-		0-	N06952-	06/07/78-	16-	29-	19.9-	-	-	-	7.8-	1800-		6-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	1-	3-	-	-	4.00					
48-36.1342-	102.2675-2-08-		0-	N06953-	06/07/78-	16-	28-	19.4-	-	-	-	7.7-	2350-		9-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	1-	-	-	-	5.31					
48-36.1069-	102.2958-2-08-		0-	N06954-	06/07/78-	17-	28-	21.4-	C-	-	-	7.4-	2250-		6-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	5.23					
48-36.1394-	102.3083-2-08-		0-	N06955-	06/07/78-	17-	28-	18.8-	-	-	-	7.5-	3300-		9-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	1-	-	-	-	0.53					
48-36.0897-	102.3181-2-08-		0-	N06956-	06/07/78-	17-	27-	19.6-	C-	-	-	7.6-	1950-		6-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	2.80					
48-36.1058-	102.3339-2-08-		0-	N06957-	06/07/78-	17-	29-	20.6-	C-	-	-	7.4-	2000-		9-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	-445-	400-		3.18					
48-36.0797-	102.3697-2-08-		0-	N06958-	06/07/78-	17-	28-	19.6-	C-	-	-	7.6-	2000-		8-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-200-	-		1.36					
48-36.0669-	102.3322-2-08-		0-	N06959-	06/07/78-	18-	26-	17.4-	C-	-	-	7.7-	1600-		6-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	-	-	-	7.27					
48-36.1131-	102.3850-2-08-		0-	N06960-	06/07/78-	18-	26-	20.4-	C-	-	-	7.8-	3400-		3-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	2.96					
48-36.1161-	102.4022-2-08-		0-	N06961-	06/07/78-	18-	25-	19.6-	C-	-	-	7.9-	2050-		10-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	3.31					
48-36.0950-	102.4069-2-08-		0-	N06962-	06/07/78-	19-	24-	19.6-	C-	-	-	7.8-	1850-		5-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	10-	480-	400-	3.63					
48-36.1522-	102.3428-2-08-		0-	N06963-	06/08/78-	10-	27-	19.4-	C-	-	-	7.5-	3100-		9-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	7.00					
48-36.1911-	102.3508-2-08-		0-	N06964-	06/08/78-	11-	28-	20.6-	C-	-	-	7.9-	2000-		10-	1-	1-	-	-1-	-3-	2-	-4-	-3-	2-	1-	-1-	3-	-1-	-	-	-	5.75					
48-36.1756-	102.3403-2-08-		0-	N06965-	06/08/78-	11-	27-	18.4-	C-	-	-	7.5-	3000-		3-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	7.09					
48-36.1828-	102.3242-2-08-		0-	N06966-	06/08/78-	12-	27-	19.1-	C-	-	-	7.4-	2000-		5-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	8-	-	-	-	6.37					
48-36.1925-	102.3125-2-08-		0-	N06967-	06/08/78-	12-	28-	17.8-	C-	-	-	7.4-	2400-		10-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	-	-	-	10.08					
48-36.2256-	102.3053-2-08-		0-	N06968-	06/08/78-	12-	28-	17.4-	-	-	-	7.5-	2300-		6-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	5-	-	-	9.11					
48-36.2467-	102.3575-2-08-		0-	N06969-	06/08/78-	13-	28-	17.9-	-	-	-	7.3-	2000-		13-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	-	-	-	6.81					
48-36.2369-	102.3361-2-08-		0-	N06970-	06/08/78-	13-	28-	18.4-	-	-	-	7.3-	1800-		6-	1-	1-	-	-3-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	-	-	-	5.57					
48-36.2233-	102.2800-2-08-		0-	N06971-	06/08/78-	13-	28-	22.6-	C-	-	-	7.7-	2800-		5-	1-	1-	-	-1-	-3-	1-	-4-	-3-	2-	1-	-1-	3-	-320-	-		5.84					

APPENDIX I-A. (continued). Uranium Concentrations for Water 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)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (θ) UNITS IN ppb
48-	36.2108-	102.2931-	2-08-			0-N06972-	06/08/78-	14-	28-	18.1-	C-	-	7.5-	1550-	10-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	8-	-	-	-	-	1.56
48-	36.1817-	102.2611-	2-08-			0-N06973-	06/08/78-	15-	28-	23.2-	C-	-	7.4-	2700-	3-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	3-	-320-		-	12.70*	
48-	36.1611-	102.2586-	2-08-			0-N06974-	06/08/78-	15-	28-	18.6-	C-	-	7.5-	2500-	5-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	8-	-	-	-	9.06	
48-	36.1425-	102.2225-	2-08-			0-N06975-	06/08/78-	15-	28-	23.4-	C-	-	7.4-	2700-	8-	1-	1-	-	-1-	3-	1-	-4-	3-	2-	1-	-1-	3-	4-	-	-	3.96	
48-	36.1542-	102.2053-	2-08-			0-N06976-	06/08/78-	16-	28-	19.1-	C-	-	7.4-	2400-	7-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	8-	-	-	-	16.49*	
48-	36.1689-	102.1964-	2-08-			0-N06977-	06/08/78-	16-	28-	24.8-	C-	-	8.2-	2300-	9-	1-	1-	-	-1-	3-	1-	-4-	3-	2-	1-	-1-	3-	1-	-	-	-	7.63	
48-	36.1386-	102.1425-	2-08-			0-N06978-	06/08/78-	16-	28-	20.4-	C-	-	7.6-	2350-	6-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	8-	-	-	-	7.18	
48-	36.0331-	102.7383-	2-08-			0-N06979-	06/07/78-	14-	35-	18.2-	-	-	6.9-	450-	5-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	1-	5-	-	-	3.55	
48-	36.0286-	102.7114-	2-08-			0-N06980-	06/07/78-	15-	35-	20.5-	-	-	6.9-	440-	5-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	5-	-	-	4.27	
48-	36.0469-	102.7100-	2-08-			0-N06981-	06/07/78-	15-	34-	18.8-	-	-	6.9-	420-	5-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	2.74	
48-	36.0142-	102.6386-	2-08-			0-N06982-	06/07/78-	16-	34-	18.5-	-	-	7.0-	430-	10-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	1-	6-	-	-	1.45	
48-	36.0069-	102.6558-	2-08-			0-N06983-	06/07/78-	16-	35-	19.2-	C-	-	7.1-	440-	11-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	9-	6-	220-	180-	6.94	
48-	36.0383-	102.6544-	2-08-			0-N06984-	06/07/78-	16-	35-	18.5-	C-	-	7.4-	650-	6-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-	-	-	2.32	
48-	36.0781-	102.6750-	2-08-			0-N06986-	06/07/78-	16-	35-	19.2-	-	-	7.4-	470-	8-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	1-	6-	-	-	7.02	
48-	36.1061-	102.6881-	2-08-			0-N06988-	06/07/78-	17-	35-	17.5-	-	-	7.4-	480-	10-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	3-	-	-	-	5.21	
48-	36.1225-	102.6669-	2-08-			0-N06989-	06/07/78-	18-	34-	18.5-	C-	-	7.4-	440-	6-	1-	1-	-	-3-	3-	1-	-4-	4-	1-	2-	-1-	8-	-	-	-	4.30	
48-	36.1089-	102.7106-	2-08-			0-N06990-	06/07/78-	18-	30-	17.5-	C-	-	7.3-	600-	5-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	8-	-	-	-	4.55	
48-	36.0800-	102.7097-	2-08-			0-N06991-	06/07/78-	18-	32-	17.8-	C-	-	7.2-	490-	10-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	-	-	4.65	
48-	36.0797-	102.7300-	2-08-			0-N06992-	06/07/78-	18-	30-	19.8-	C-	-	7.2-	500-	9-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	3-	6-	350-	180-	3.36	
48-	36.0800-	102.6186-	2-08-			0-N06994-	06/07/78-	19-	30-	17.2-	-	-	7.3-	490-	8-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	-	-	6.81	
48-	36.1192-	102.5808-	2-08-			0-N06997-	06/07/78-	20-	26-	18.4-	C-	-	7.2-	450-	10-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	3-	-1-	2-	6-	-	-	3.63	
48-	36.1192-	102.6181-	2-08-			0-N06999-	06/07/78-	20-	26-	18.5-	C-	-	7.2-	465-	6-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	3-	-1-	1-	6-	-	-	6.11	
48-	36.1247-	102.5275-	2-08-			0-N07000-	06/08/78-	13-	36-	18.5-	C-	-	7.4-	380-	5-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	3-	6-	470-	180-	0.89	
48-	36.1033-	102.5075-	2-08-			0-N07001-	06/08/78-	13-	36-	17.8-	C-	-	7.3-	420-	4-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	9-	-	-	-	4.16	
48-	36.0828-	102.5492-	2-08-			0-N07002-	06/08/78-	14-	36-	17.2-	-	-	7.5-	470-	8-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	2-	6-	-	-	4.77	
48-	36.0611-	102.5494-	2-08-			0-N07003-	06/08/78-	14-	36-	18.8-	C-	-	7.4-	550-	6-	1-	1-	-	-3-	3-	1-	-4-	4-	1-	1-	-1-	8-	-	-	-	9.24	
48-	36.0161-	102.5300-	2-08-			0-N07007-	06/08/78-	16-	36-	18.5-	-	-	7.3-	650-	10-	1-	1-	-	-3-	3-	1-	-4-	4-	1-	2-	-1-	3-	-	-	-	14.39	
48-	36.0358-	102.5036-	2-08-			0-N07008-	06/08/78-	17-	36-	22.5-	C-	-	7.4-	800-	6-	1-	1-	-	-3-	3-	1-	-4-	4-	1-	2-	-1-	8-	-	-	-	3.49	
48-	36.0078-	102.5928-	2-08-			0-N07009-	06/08/78-	17-	36-	19.6-	C-	-	7.5-	550-	8-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	8-	-	-	-	6.89	
48-	36.0750-	102.7769-	2-08-			0-N07010-	06/08/78-	17-	34-	23.5-	C-	-	7.4-	500-	6-	1-	1-	-	-3-	3-	1-	-4-	3-	1-	2-	-1-	1-	-	-	-	3.21	
48-	36.0572-	102.7872-	2-08-			0-N07012-	06/08/78-	18-	34-	23.8-	C-	-	7.7-	500-	6-	1-	1-	-	-3-	3-	1-	-3-	3-	2-	2-	-1-	1-	6-	-	-	2.90	
48-	36.0572-	102.8067-	2-08-			0-N07013-	06/08/78-	18-	34-	23.8-	-	-	7.6-	500-	7-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	6-	-	-	3.60	
48-	36.0758-	102.8556-	2-08-			0-N07014-	06/08/78-	19-	34-	18.5-	C-	-	7.3-	500-	3-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	3-	6-	-	180-	4.30	
48-	36.0833-	102.8669-	2-08-			0-N07015-	06/08/78-	19-	32-	18.2-	C-	-	7.5-	600-	6-	1-	1-	-	-3-	3-	1-	-4-	4-	1-	2-	-1-	8-	-	-	-	3.52	
48-	36.0989-	102.8739-	2-08-			0-N07016-	06/08/78-	19-	30-	17.8-	C-	-	7.6-	490-	8-	1-	1-	-	-3-	3-	1-	-4-	4-	1-	2-	-1-	8-	-	-	-	1.73	
48-	36.0953-	102.8044-	2-08-			0-N07019-	06/08/78-	20-	34-	22.8-	C-	-	7.2-	470-	3-	1-	1-	-	-3-	3-	1-	-3-	3-	2-	2-	-1-	1-	-	-	-	4.14	
48-	36.0842-	102.7886-	2-08-			0-N07020-	06/08/78-	20-	32-	17.5-	C-	-	7.4-	480-	8-	1-	1-	-	-3-	3-	1-	-4-	4-	1-	2-	-1-	8-	-	-	-	2.15	
48-	36.0744-	102.8139-	2-08-			0-N07021-	06/08/78-	12-	36-	18.5-	-	-	7.2-	420-	8-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	1-	-	-	-	4.20	
48-	36.0058-	102.7681-	2-08-			0-N07022-	06/09/78-	12-	35-	23.5-	C-	-	7.3-	435-	6-	1-	1-	-	-3-	3-	1-	-4-	4-	1-	1-	-1-	3-	-	-	-	5.18	
48-	36.0231-	102.7881-	2-08-			0-N07023-	06/09/78-	13-	36-	22.2-	C-	-	7.4-	470-	5-	1-	1-	-	-3-	3-	1-	-4-	4-	1-	1-	-1-	3-	6-	300-	250-	5.71	
48-	36.0406-	102.7703-	2-08-			0-N07024-	06/09/78-	13-	36-	18.5-	-	-	7.3-	440-	5-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	1-	6-	-	-	3.66	
48-	36.0092-	102.8208-	2-08-			0-N07025-	06/09/78-	13-	35-	24.2-	C-	-	7.2-	280-	3-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	1-	6-	-	-	0.23	
48-	36.0281-	102.8867-	2-08-			0-N07026-	06/09/78-	14-	36-	17.8-	-	-	7.2-	480-	8-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	1-	-	-	-	3.30	
48-	36.0422-	102.8858-	2-08-			0-N07027-	06/09/78-	14-	36-	19.4-	-	-	7.1-	470-	6-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	1-	6-	-	-	4.15	
48-	36.0336-	102.9172-	2-08-			0-N07028-	06/09/78-	14-	36-	23.5-	C-	-	7.2-	380-	5-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	3-	-	-	-	3.99	
48-	36.0261-	102.9700-	2-08-			0-N07030-	06/09/78-	16-	28-	22.0-	C-	-	7.7-	370-	10-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	-	-	3.83	
48-	36.0225-	102.9125-	2-08-			0-N07031-	06/09/78-	16-	27-	19.0-	C-	-	7.7-	420-	10-	1-	4-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	-	-	-	-	5.28	
48-	36.0542-	102.9050-	2-08-			0-N07034-	06/09/78-	17-	28-	22.0-	C-	-	8.1-	470-	9-	1-	6-	-	-3-	3-	1-	-4-	3-	1-	2-	-1-	3-	-	-	500-	5.44	
48-	36.0861-	102.9081-	2-08-			0-N07035-	06/09/78-	18-	27-	25.0-	C-	-	8.4-	500-	10-	1-	1-	-	-3-	3-	1-	-4-	2-	1-	2-	-1-	3-	-	-	275-	4.84	
48-	36.1111-	102.9525-	2-08-			0-N07037-	06/09/78-	19-	26-	20.0-	C-	-	8.0-	510-	4-	1-	1-	-	-3-	3-	1-	-4-	2-	1-	3-	-1-	8-	-	-	-	6.47	
48-	36.1100-	102.1058-	2-08-			0-N07038-	06/09/78-	19-	27-	19.8-	C-	-	8.2-	475-	9-	1-	4-	-	-3-	3-	1-	-4-	3-	1-	2-	-1-	3-	-	-	-	6.61	

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
48-	36.0672-	102.0997-2-08-				0-N07039-	06/07/78-	21-	25-	20.0-	C-	-	8.2-	470-	8-1-1-	-	-3-3-1-	-4-3-1-2-	-1-3-	6-	260-	-	7.60												
48-	36.0458-	102.0269-2-08-				0-N07041-	06/08/78-	11-	27-	22.0-	C-	-	7.6-	430-	12-1-1-	-	-3-3-1-	-4-3-2-2-	-3-8-		450-	-	7.82												
48-	36.0489-	102.0728-2-08-				0-N07042-	07/08/78-	12-	28-	22.9-	-	-	7.6-	370-	11-1-1-	-	-3-3-1-	-4-3-2-2-	-3-3-		500-	-	6.25												
48-	36.1497-	102.0297-2-08-				0-N07044-	06/08/78-	13-	28-	22.9-	-	-	7.8-	510-	17-1-1-	-	-3-3-1-	-4-3-2-3-	-3-1-	6-	-	-	8.14												
48-	36.1878-	102.0092-2-08-				0-N07047-	07/08/78-	14-	28-	27.0-	-	-	7.8-	500-	8-1-1-	-	-2-3-1-	-4-3-2-2-	-3-1-	-	-	-	8.50												
48-	36.2197-	102.0069-2-08-				0-N07048-	06/08/78-	15-	28-	22.0-	C-	-	7.9-	500-	14-1-1-	-	-3-3-1-	-4-3-2-2-	-1-3-	-	-	-	11.18												
48-	36.2094-	102.0344-2-08-				0-N07049-	06/08/78-	15-	28-	22.5-	C-	-	7.8-	600-	9-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	8.38												
48-	36.2389-	102.0436-2-08-				0-N07050-	06/08/78-	15-	28-	22.8-	C-	-	8.0-	600-	10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	8.32												
48-	36.2042-	102.0622-2-08-				0-N07051-	06/08/78-	16-	28-	25.8-	C-	-	7.8-	470-	14-1-1-	-	-3-3-1-	-4-3-2-2-	-3-8-	-	-	-	3.60												
48-	36.1833-	102.0700-2-08-				0-N07052-	06/08/78-	16-	28-	19.0-	-	-	8.2-	470-	14-1-6-	-	-3-3-1-	-4-2-2-2-	-3-1-	6-	-	-	6.01												
48-	36.1481-	102.0517-2-08-				0-N07054-	06/08/78-	17-	27-	19.8-	-	-	8.0-	510-	10-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	6-	-	-	8.85												
48-	36.1617-	102.0881-2-08-				0-N07055-	06/08/78-	18-	27-	19.0-	-	-	8.2-	510-	8-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	10.70												
48-	36.2231-	102.1094-2-08-				0-N07057-	06/09/78-	16-	28-	24.0-	C-	-	7.4-	400-	11-1-1-	-	-3-3-1-	-4-3-2-1-	-1-3-	6-	220-	-	4.25												
48-	36.2122-	102.0925-2-08-				0-N07058-	06/09/78-	16-	28-	20.5-	C-	-	7.3-	470-	11-1-1-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	9.16												
48-	36.2539-	102.1161-2-08-				0-N07060-	06/09/78-	16-	28-	22.0-	-	-	7.2-	470-	12-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	7.45												
48-	36.3039-	102.0556-2-08-				0-N07061-	06/09/78-	17-	27-	19.5-	C-	-	7.4-	500-	11-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	3.01												
48-	36.2708-	102.0072-2-08-				0-N07063-	06/09/78-	18-	27-	21.0-	C-	-	7.4-	800-	11-1-1-	-	-3-3-1-	-4-3-1-1-	-1-3-	-	-	-	9.48												
48-	36.3297-	102.0028-2-08-				0-N07065-	06/09/78-	18-	27-	22.1-	C-	-	7.4-	550-	18-1-1-	-	-3-3-1-	-4-3-1-1-	-1-3-	-	-	-	10.72												
48-	36.3525-	102.0436-2-08-				0-N07066-	06/09/78-	19-	27-	20.5-	C-	-	7.2-	470-	16-1-1-	-	-3-3-1-	-4-3-2-1-	-1-3-	6-	500-	270-	8.29												
48-	36.3489-	102.0894-2-08-				0-N07072-	06/09/78-	21-	26-	20.5-	C-	-	7.4-	400-	4-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	9.93												
48-	36.2942-	102.1167-2-08-				0-N07073-	06/10/78-	12-	27-	22.0-	C-	-	7.2-	510-	5-1-1-	-	-3-3-1-	-4-3-2-1-	-1-3-		500-	-	10.46												
48-	36.3175-	102.1108-2-08-				0-N07074-	06/10/78-	12-	27-	20.8-	C-	-	7.1-	510-	4-1-1-	-	-3-3-1-	-4-3-3-1-	-1-6-	8-	660-	-	8.56												
48-	36.3278-	102.0267-2-08-				0-N07078-	06/19/78-	13-	29-	21.8-	-	-	7.4-	600-	6-1-6-	-	-4-3-1-	-4-3-2-1-	-1-6-	-	-	-	17.48												
48-	36.0272-	102.1942-2-08-				0-N07079-	06/07/78-	14-	31-	21.0-	C-	-	7.5-	410-	3-1-6-	-	-3-3-1-	-4-2-1-2-	-1-4-	-	-	-	2.78												
48-	36.0481-	102.2469-2-08-				0-N07081-	06/07/78-	15-	31-	19.2-	-	-	7.5-	400-	8-1-6-	-	-3-3-1-	-4-2-1-2-	-1-1-	-	-	-	4.18												
48-	36.0025-	102.2222-2-08-				0-N07082-	06/07/78-	15-	31-	20.5-	C-	-	7.6-	380-	7-1-6-	-	-3-3-1-	-2-2-1-2-	-1-3-		300-	-	3.25												
48-	36.0236-	102.1408-2-08-				0-N07083-	06/07/78-	15-	30-	19.5-	C-	-	7.3-	360-	4-1-6-	-	-3-3-1-	-4-2-1-2-	-1-3-		480-	-	3.30												
48-	36.0561-	102.1300-2-08-				0-N07084-	06/07/78-	16-	30-	19.0-	-	-	7.6-	400-	16-1-6-	-	-3-3-1-	-4-2-1-2-	-1-1-	6-	-	-	4.60												
48-	36.0703-	102.1633-2-08-				0-N07085-	06/07/78-	16-	30-	18.8-	-	-	7.6-	370-	8-1-6-	-	-3-3-1-	-4-2-1-2-	-1-1-	-	-	-	4.93												
48-	36.0656-	102.1761-2-08-				0-N07087-	06/07/78-	17-	30-	24.2-	-	-	7.8-	500-	9-1-6-	-	-2-3-2-	-4-2-1-2-	-1-1-	-	-	-	7.43												
48-	36.0778-	102.1900-2-08-				0-N07089-	06/07/78-	17-	30-	19.3-	C-	-	7.5-	500-	10-1-6-	-	-3-3-1-	-4-2-1-2-	-1-3-		500-	290-	4.80												
48-	36.0661-	102.2400-2-08-				0-N07090-	06/07/78-	18-	30-	20.4-	C-	-	7.5-	410-	10-1-6-	-	-3-3-1-	-4-2-1-2-	-1-8-	-	-	-	4.34												
48-	36.0986-	102.2342-2-08-				0-N07091-	06/07/78-	18-	30-	18.3-	C-	-	7.6-	430-	12-1-6-	-	-3-3-1-	-4-2-1-2-	-1-3-	-	-	-	4.23												
48-	36.0954-	102.1325-2-08-				0-N07092-	06/07/78-	19-	30-	19.5-	C-	-	7.5-	480-	10-1-6-	-	-3-3-1-	-4-2-1-2-	-1-3-		366-	-	5.54												
48-	36.1119-	102.1336-2-08-				0-N07093-	06/07/78-	20-	28-	22.2-	C-	-	7.7-	480-	4-1-6-	-	-3-3-1-	-2-2-1-2-	-1-1-	-	-	-	6.02												
48-	36.1408-	102.7514-2-08-				0-N07094-	06/08/78-	12-	29-	20.2-	C-	-	7.3-	625-	14-1-6-	-	-3-3-1-	-4-2-1-1-	-1-3-	-	-	-	4.18												
48-	36.1400-	102.7694-2-08-				0-N07095-	06/08/78-	12-	30-	18.6-	C-	-	7.5-	420-	15-1-6-	-	-3-3-1-	-4-2-1-1-	-1-3-		420-	-	3.33												
48-	36.1389-	102.7900-2-08-				0-N07096-	06/08/78-	12-	31-	19.5-	C-	-	7.6-	410-	8-1-6-	-	-3-3-1-	-4-2-1-1-	-1-3-		480-	340-	4.97												
48-	36.1317-	102.8267-2-08-				0-N07097-	06/08/78-	13-	30-	24.0-	C-	-	9.1-	370-	8-1-6-	-	-1-3-1-	-4-2-1-1-	-3-1-	-	-	-	3.96												
48-	36.1481-	102.8328-2-08-				0-N07098-	06/08/78-	13-	30-	20.2-	C-	-	7.8-	410-	9-1-6-	-	-1-3-1-	-4-2-1-1-	-3-1-	-	-	-	2.93												
48-	36.1283-	102.8725-2-08-				0-N07100-	06/08/78-	14-	31-	18.0-	C-	-	7.6-	370-	12-1-6-	-	-3-3-1-	-2-1-1-1-	-1-8-	-	-	-	2.23												
48-	36.1700-	102.8725-2-08-				0-N07101-	06/08/78-	14-	32-	19.5-	C-	-	7.3-	410-	14-1-6-	-	-3-3-1-	-4-2-1-1-	-1-3-	-	-	-	3.35												
48-	36.1986-	102.8681-2-08-				0-N07102-	06/08/78-	14-	31-	18.5-	C-	-	7.5-	430-	10-1-6-	-	-3-3-1-	-3-2-1-2-	-1-3-		300-	190-	3.16												
48-	36.2275-	102.8678-2-08-				0-N07103-	06/08/78-	14-	31-	18.0-	C-	-	7.5-	460-	8-1-6-	-	-2-3-1-	-4-2-1-2-	-1-1-10-		-	-	4.66												
48-	36.2442-	102.8517-2-08-				0-N07104-	06/08/78-	15-	31-	20.5-	C-	-	7.2-	500-	14-1-6-	-	-3-3-1-	-4-2-1-1-	-1-3-	8-	400-	190-	4.14												
48-	36.2361-	102.8100-2-08-				0-N07105-	06/08/78-	15-	31-	21.5-	C-	-	7.5-	450-	10-1-6-	-	-3-3-1-	-2-2-1-1-	-1-3-	6-	370-	-	2.87												
48-	36.2067-	102.7942-2-08-				0-N07106-	06/08/78-	16-	32-	24.0-	C-	-	7.6-	480-	8-1-6-	-	-1-3-2-	-4-2-1-2-	-3-1-	-	-	-	0.51												
48-	36.2053-	102.7533-2-08-				0-N07107-	06/08/78-	16-	32-	20.0-	C-	-	7.5-	420-	9-1-6-	-	-3-3-1-	-2-2-1-1-	-1-8-	-	-	-	4.04												
48-	36.2272-	102.8311-2-08-				0-N07108-	06/08/78-	16-	32-	17.9-	C-	-	7.5-	440-	12-1-6-	-	-3-3-2-	-2-2-1-1-	-1-2-		220-	190-	3.80												
48-	36.1919-	102.8597-2-08-				0-N07109-	06/08/78-	17-	32-	24.8-	C-	-	8.3-	390-	8-1-6-	-	-1-3-1-	-4-2-1-2-	-3-1-	-	-	-	3.28												
48-	36.1706-	102.9275-2-08-				0-N07111-	06/08/78-	17-	30-	18.2-	C-	-	7.5-	410-	6-1-6-	-	-3-3-1-	-4-2-1-2-	-1-3-		310-	-	4.16												

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
48-	36.1903-	102.9633-	2-	08-		0-N07112-	06/08/78-	18-	31-24.2-	C-	-		8.0-	410-		11-1-6-	-	-1-	3-	1-	-4-	2-	1-	2-	-3-	1-	6-		-	-	2.70
48-	36.1856-	102.9889-	2-	08-		0-N07113-	06/08/78-	18-	31-22.0-	C-	-		7.5-	440-		8-1-6-	-	-3-	3-	1-	-2-	2-	1-	2-	-1-	8-	-		-	-	6.10
48-	36.1549-	102.9978-	2-	08-		0-N07114-	06/08/78-	18-	32-17.5-	C-	-		7.5-	400-		7-1-6-	-	-3-	3-	1-	-2-	2-	1-	2-	-1-	3-	-	120-	-	-	4.39
48-	36.1439-	102.9333-	2-	08-		0-N07116-	06/08/78-	19-	30-21.0-	C-	-		7.6-	400-		11-1-6-	-	-3-	3-	1-	-4-	2-	1-	2-	-1-	3-	-		-	-	2.22
48-	36.1561-	102.8928-	2-	08-		0-N07117-	06/08/78-	19-	31-17.1-	C-	-		7.3-	500-		11-1-6-	-	-3-	3-	1-	-2-	2-	1-	2-	-1-	3-	-		-	-	3.26
48-	36.2731-	102.8792-	2-	08-		0-N07119-	06/12/78-	15-	31-18.7-	C-	-		7.3-	500-		6-1-6-	-	-3-	3-	1-	-2-	2-	1-	1-	-1-	3-	-	175-	-	-	2.94
48-	36.2633-	102.9594-	2-	08-		0-N07120-	06/12/78-	15-	32-18.0-	C-	-		7.8-	600-		16-1-6-	-	-3-	3-	1-	-2-	2-	1-	1-	-1-	2-	-		-	80-	1.58
48-	36.2583-	102.9769-	2-	08-		0-N07121-	06/12/78-	15-	32-18.2-	C-	-		7.5-	480-		4-1-6-	-	-3-	3-	1-	-4-	2-	1-	1-	-1-	1-	-		-	-	4.15
48-	36.2367-	102.9878-	2-	08-		0-N07122-	06/12/78-	16-	32-16.8-	-	-		7.6-	410-		8-1-6-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	1-	-		-	-	3.88
48-	36.2094-	102.9400-	2-	08-		0-N07124-	06/12/78-	16-	32-17.9-	-	-		7.3-	400-		4-1-6-	-	-3-	3-	1-	-7-	2-	2-	1-	-1-	6-	-		-	-	3.99
48-	36.2356-	102.9203-	2-	08-		0-N07126-	06/12/78-	17-	32-18.3-	-	-		7.6-	450-		19-1-6-	-	-2-	3-	2-	-3-	2-	1-	1-	-1-	1-	-		-	-	4.48
48-	36.2556-	102.9394-	2-	08-		0-N07127-	06/12/78-	18-	32-20.5-	C-	-		7.5-	480-		10-1-6-	-	-3-	3-	1-	-4-	2-	1-	1-	-1-	3-	-		-	-	4.70
48-	36.2886-	102.9547-	2-	08-		0-N07128-	06/12/78-	18-	32-17.2-	-	-		7.5-	500-		8-1-6-	-	-3-	3-	1-	-4-	2-	1-	1-	-1-	1-	6-		-	-	4.73
48-	36.2186-	102.6231-	2-	08-		0-N07130-	06/07/78-	10-	28-19.6-	-	-		7.5-	415-		11-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	4.53
48-	36.2286-	102.5539-	2-	08-		0-N07131-	06/07/78-	11-	28-19.2-	-	-		7.6-	500-		8-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	7.40
48-	36.2217-	102.5667-	2-	08-		0-N07132-	06/07/78-	11-	28-18.8-	-	-		7.3-	500-		16-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	6.73
48-	36.2064-	102.5503-	2-	08-		0-N07133-	06/07/78-	11-	28-18.6-	-	-		7.7-	425-		11-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	3.87
48-	36.1825-	102.6083-	2-	08-		0-N07134-	06/07/78-	12-	28-19.6-	-	-		7.4-	390-		5-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	4.33
48-	36.1683-	102.5506-	2-	08-		0-N07135-	06/07/78-	12-	28-19.2-	-	-		7.8-	390-		5-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	4.36
48-	36.1522-	102.5667-	2-	08-		0-N07136-	06/07/78-	13-	29-20.2-	-	-		7.5-	390-		4-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	4.20
48-	36.1417-	102.6019-	2-	08-		0-N07137-	06/07/78-	13-	30-19.2-	-	-		7.4-	385-		11-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	3.76
48-	36.1336-	102.5619-	2-	08-		0-N07138-	06/07/78-	13-	30-19.4-	C-	-		7.4-	400-		11-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	460-	-		4.14
48-	36.1622-	102.5061-	2-	08-		0-N07139-	06/07/78-	14-	31-19.6-	C-	-		7.4-	410-		10-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	320-	280-		4.03
48-	36.1717-	102.5100-	2-	08-		0-N07140-	06/07/78-	14-	31-18.8-	C-	-		7.5-	400-		11-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	540-	320-		4.03
48-	36.2256-	102.5119-	2-	08-		0-N07141-	06/07/78-	15-	31-19.8-	C-	-		7.1-	575-		12-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	7.92
48-	36.2111-	102.4914-	2-	08-		0-N07142-	06/07/78-	15-	30-22.8-	C-	-		7.2-	525-		8-1-6-	-	-1-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	6.98
48-	36.2128-	102.4364-	2-	08-		0-N07143-	06/07/78-	16-	28-20.2-	C-	-		7.2-	500-		10-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	8.82
48-	36.2486-	102.4569-	2-	08-		0-N07144-	06/07/78-	18-	28-24.6-	C-	-		7.8-	320-		11-1-6-	-	-1-	3-	1-	-4-	3-	2-	2-	-1-	3-	-		-	-	4.69
48-	36.1564-	102.4856-	2-	08-		0-N07145-	06/08/78-	11-	28-19.6-	C-	-		7.6-	400-		9-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	4.19
48-	36.1536-	102.4533-	2-	08-		0-N07146-	06/08/78-	11-	28-19.8-	C-	-		7.3-	500-		8-1-6-	-	-1-	3-	1-	-4-	3-	2-	2-	-1-	3-	-		-	-	6.03
48-	36.1375-	102.4425-	2-	08-		0-N07147-	06/08/78-	11-	28-18.4-	C-	-		7.2-	500-		12-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	7.93
48-	36.1536-	102.4350-	2-	08-		0-N07148-	06/08/78-	12-	29-19.8-	C-	-		7.5-	470-		8-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	6.09
48-	36.1450-	102.3875-	2-	08-		0-N07149-	06/08/78-	12-	29-23.2-	C-	-		7.2-	500-		10-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	400-		-	9.43
48-	36.1758-	102.6311-	2-	08-		0-N07150-	06/08/78-	13-	30-19.2-	-	-		7.3-	370-		17-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	4.47
48-	36.2003-	102.6400-	2-	08-		0-N07152-	06/08/78-	13-	30-21.8-	C-	-		7.6-	320-		10-1-6-	-	-1-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	3.02
48-	36.2358-	102.6597-	2-	08-		0-N07153-	06/08/78-	14-	30-18.2-	-	-		7.2-	500-		6-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	4.18
48-	36.2492-	102.7053-	2-	08-		0-N07154-	06/08/78-	14-	30-19.2-	-	-		7.2-	650-		13-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	11.99
48-	36.2122-	102.7339-	2-	08-		0-N07156-	06/08/78-	15-	31-25.6-	C-	-		8.1-	305-		11-1-6-	-	-1-	3-	1-	-4-	3-	2-	2-	-1-	3-	-		-	-	2.86
48-	36.1550-	102.7167-	2-	08-		0-N07157-	06/08/78-	15-	31-20.0-	C-	-		7.7-	360-		5-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	3.94
48-	36.1397-	102.7450-	2-	08-		0-N07158-	06/08/78-	16-	31-20.8-	C-	-		7.6-	395-		9-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	4.34
48-	36.1400-	102.6578-	2-	08-		0-N07159-	06/08/78-	16-	31-21.6-	C-	-		7.4-	440-		8-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	6.68
48-	36.1397-	102.6378-	2-	08-		0-N07160-	06/08/78-	16-	31-19.9-	C-	-		7.4-	390-		15-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	2.97
48-	36.1739-	102.6717-	2-	08-		0-N07162-	06/08/78-	17-	30-23.6-	C-	-		7.3-	380-		9-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	2.92
48-	36.1967-	102.5803-	2-	08-		0-N07163-	06/08/78-	17-	30-21.2-	-	-		7.3-	390-		8-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-	400-	280-		3.81
48-	36.1831-	102.7056-	2-	08-		0-N07164-	06/08/78-	17-	29-23.4-	C-	-		7.3-	405-		8-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-		-	-	3.12
48-	36.1639-	102.5019-	2-	08-		0-N07165-	06/13/78-	12-	28-19.8-	-	-		7.5-	650-		9-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	7.27
48-	36.1975-	102.3836-	2-	08-		0-N07166-	06/13/78-	12-	28-17.4-	-	-		7.4-	575-		6-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-		-	-	13.12
48-	36.1997-	102.4203-	2-	08-		0-N07167-	06/13/78-	12-	29-19.3-	-	-		7.2-	525-		6-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-		-	-	6.53
48-	36.2211-	102.3850-	2-	08-		0-N07168-	06/13/78-	13-	28-18.8-	-	-		7.1-	525-		6-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-		-	-	9.89
48-	36.2483-	102.4056-	2-	08-		0-N07169-	06/13/78-	13-	28-19.6-	-	-		7.6-	500-		9-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	500-		-	4.26
48-	36.1756-	102.4594-	2-	08-		0-N07170-	06/13/78-	14-	29-18.4-	-	-		7.3-	650-		4-1-6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-		-	-	19.49

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (μmho/cm)	SCINTILLOMETER (all rnm)	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
48-	36.2206-	102.4897-2-08-				0-N07171-	06/13/78-	14-	29-	19.2-	-	-	7.3-	750-		6-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	6.17
48-	36.2061-	102.5297-2-08-				0-N07172-	06/13/78-	14-	29-	20.1-	-	-	7.3-	500-		9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	5.03
48-	36.1892-	102.5006-2-08-				0-N07173-	06/13/78-	14-	29-	23.2-	C-	-	8.2-	500-		13-1-6-	-	-1-3-1-	-4-3-2-2-	-3-1-	-	-	-	4.21
48-	36.2389-	102.5375-2-08-				0-N07174-	06/13/78-	15-	28-	18.1-	-	-	7.8-	525-		8-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-	-	-	9.69
48-	36.2589-	102.5047-2-08-				0-N07175-	06/13/78-	15-	28-	19.4-	-	-	7.7-	600-		12-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	7.40
48-	36.3006-	102.5783-2-08-				0-N07176-	06/13/78-	15-	28-	23.4-	C-	-	7.7-	440-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	9.69
48-	36.3053-	102.5994-2-08-				0-N07177-	06/13/78-	15-	28-	19.8-	-	-	7.7-	550-		9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	7.48
48-	36.3222-	102.6239-2-08-				0-N07178-	06/13/78-	16-	28-	19.2-	-	-	7.5-	440-		12-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	0.40
48-	36.1617-	102.1322-2-08-				0-N07179-	06/08/78-	16-	28-	26.5-	C-	-	8.7-	2900-		8-1-1-	-	-1-2-2-	-4-3-2-1-	-3-3-	-	-	-	1.99
48-	36.1836-	102.1681-2-08-				0-N07180-	06/08/78-	17-	27-	19.3-	C-	-	7.4-	2650-		6-1-1-	-	-3-3-1-	-4-3-2-1-	-1-3-	-	-	-	6.54
48-	36.1944-	102.1986-2-08-				0-N07181-	06/08/78-	17-	27-	20.4-	C-	-	7.4-	2350-		7-1-1-	-	-3-3-1-	-4-3-2-1-	-1-3-	-	-	-	8.21
48-	36.1692-	102.2383-2-08-				0-N07182-	06/08/78-	18-	27-	19.7-	C-	-	7.5-	3000-		6-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	11.02
48-	36.4453-	102.0144-2-08-				0-N07184-	06/10/78-	14-	28-	24.3-	C-	-	7.2-	460-		13-1-1-	-	-3-3-1-	-4-3-3-1-	-1-3-	-270-	-	-	6.16
48-	36.4033-	102.0994-2-08-				0-N07185-	06/10/78-	14-	28-	27.5-	C-	-	7.3-	470-		13-1-1-	-	-3-3-1-	-4-2-1-1-	-1-8-	-	-	-	11.02
48-	36.4458-	102.0978-2-08-				0-N07187-	06/10/78-	15-	28-	25.0-	C-	-	7.3-	700-		18-1-1-	-	-3-3-1-	-4-3-1-1-	-1-8-	-	-	-	14.80
48-	36.4461-	102.0617-2-08-				0-N07188-	06/10/78-	16-	28-	22.0-	C-	-	7.3-	470-		18-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	6.95
48-	36.4708-	102.0267-2-08-				0-N07190-	06/10/78-	16-	33-	26.5-	C-	-	7.4-	420-		19-1-1-	-	-3-3-1-	-4-3-3-1-	-3-1-	-	-	-	7.93
48-	36.4911-	102.0806-2-08-				0-N07192-	06/10/78-	18-	33-	22.5-	-	-	7.4-	470-		10-1-1-	-	-3-3-1-	-4-3-3-1-	-3-1-	-	-	-	7.82
48-	36.4147-	102.0456-2-08-				0-N07193-	06/10/78-	18-	33-	20.5-	C-	-	7.5-	340-		11-1-1-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	0.98
48-	36.3747-	102.0606-2-08-				0-N07194-	06/10/78-	18-	28-	22.5-	C-	-	7.4-	430-		11-1-1-	-	-3-3-1-	-4-3-1-1-	-1-8-	-	-	-	8.91
40-	36.6789-	102.5183-2-08-				0-N07195-	06/15/78-	20-	35-	35.0-	C-	-	6.9-	510-		4-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	6.90
48-	36.3928-	102.2314-2-08-				0-N07196-	06/12/78-	16-	33-	25.0-	C-	-	7.2-	650-		9-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	15.12
48-	36.3844-	102.1892-2-08-				0-N07197-	06/13/78-	12-	33-	24.0-	C-	-	7.3-	450-		10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-3-	-250-	-	-	11.91
48-	36.4153-	102.1258-2-08-				0-N07198-	06/13/78-	12-	33-	20.5-	-	-	7.6-	560-		14-2-1-	-	-3-	-	-	-4-3-2-2-	-3-	-	-	-	-	10.98
48-	36.4297-	102.1353-2-08-				0-N07199-	06/13/78-	12-	33-	22.5-	C-	-	7.2-	430-		10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-3-	8-300-	-	-	9.21
48-	36.4161-	102.1656-2-08-				0-N07201-	06/13/78-	13-	33-	20.0-	-	-	7.2-	470-		4-1-1-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	7.76
48-	36.4550-	102.2139-2-08-				0-N07202-	06/13/78-	14-	33-	21.3-	-	-	7.2-	500-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	9.12
48-	36.4353-	102.2056-2-08-				0-N07203-	06/13/78-	14-	33-	21.0-	-	-	7.4-	470-		14-1-1-	-	-3-3-1-	-4-3-2-1-	-1-1-	-	-	-	6.64
48-	36.4525-	102.2456-2-08-				0-N07205-	06/13/78-	15-	33-	21.2-	-	-	7.5-	500-		14-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	6.14
48-	36.4875-	102.2067-2-08-				0-N07206-	06/13/78-	16-	33-	19.8-	-	-	7.2-	500-		8-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	7.78
48-	36.4086-	102.2806-2-08-				0-N07207-	06/14/78-	11-	32-	19.0-	-	-	7.2-	450-		10-1-1-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	9.49
48-	36.4053-	102.3044-2-08-				0-N07209-	06/13/78-	13-	33-	20.0-	C-	-	7.1-	470-		10-1-1-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	10.06
48-	36.4506-	102.2867-2-08-				0-N07211-	06/13/78-	14-	33-	20.5-	-	-	7.2-	480-		10-2-4-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	7.44
48-	36.4583-	102.3219-2-08-				0-N07212-	06/13/78-	15-	33-	22.0-	C-	-	7.4-	510-		10-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	8.35
48-	36.4611-	102.3622-2-08-				0-N07214-	06/13/78-	15-	33-	23.0-	C-	-	7.4-	500-		28-1-1-	-	-3-3-1-	-4-3-2-1-	-1-4-	8-300-	-	-	6.56
48-	36.4181-	102.3644-2-08-				0-N07215-	06/13/78-	15-	33-	22.0-	-	-	7.4-	430-		14-1-1-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	2.21
48-	36.3981-	102.3203-2-08-				0-N07216-	06/13/78-	16-	23-	22.0-	-	-	7.2-	550-		6-1-6-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	17.84
48-	36.3803-	102.3394-2-08-				0-N07218-	06/13/78-	16-	33-	21.5-	-	-	7.2-	480-		12-1-6-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	8.11
48-	36.4942-	102.3186-2-08-				0-N07219-	06/13/78-	17-	33-	26.0-	C-	-	7.2-	650-		6-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	8.18
48-	36.4733-	102.2972-2-08-				0-N07220-	06/13/78-	18-	33-	23.0-	C-	-	7.4-	510-		6-1-1-	-	-3-3-1-	-4-3-2-1-	-1-	-	-	-	8.50
48-	36.4903-	102.2706-2-08-				0-N07221-	06/13/78-	18-	33-	24.0-	C-	-	7.2-	480-		11-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	5.74
40-	36.5114-	102.2844-2-08-				0-N07222-	06/13/78-	18-	33-	23.5-	-	-	7.2-	500-		4-1-1-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	7.84
40-	36.5031-	102.3597-2-08-				0-N07223-	06/13/78-	19-	32-	19.0-	-	-	7.2-	480-		4-1-1-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	5.80
40-	36.5006-	102.3436-2-08-				0-N07224-	06/13/78-	20-	32-	19.8-	C-	-	7.1-	500-		10-2-7-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	5.11
40-	36.5014-	102.2531-2-08-				0-N07225-	06/13/78-	20-	32-	22.0-	C-	-	7.2-	500-		14-2-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	6.02
40-	36.5461-	102.3461-2-08-				0-N07226-	06/13/78-	20-	30-	21.0-	C-	-	7.2-	550-		12-2-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	5.68
40-	36.5775-	102.3522-2-08-				0-N07227-	06/13/78-	20-	30-	19.8-	-	-	7.4-	470-		6-1-6-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	4.72
40-	36.5464-	102.3233-2-08-				0-N07228-	06/13/78-	21-	30-	20.0-	-	-	7.3-	510-		10-1-1-	-	-3-3-1-	-4-3-2-1-	-3-1-	-	-	-	9.31
48-	36.0153-	102.9486-2-08-				0-N07229-	06/09/78-	15-	36-	15.8-	C-	-	7.1-	700-		5-1-1-	-	-3-3-1-	-4-4-2-1-	-1-2-	-	-	-	6.64
48-	36.0078-	102.9897-2-08-				0-N07230-	06/09/78-	15-	36-	17.2-	-	-	7.1-	500-		1-1-1-	-	-3-3-1-	-4-3-2-1-	-1-1-	5-	-	-	5.40
48-	36.0322-	102.9667-2-08-				0-N07231-	06/09/78-	15-	36-	17.2-	-	-	7.2-	550-		6-1-1-	-	-3-3-1-	-3-3-2-1-	-1-1-	6-	-	-	9.56

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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 (W) UNITS IN ppb
48-	36.0392-	102.9981-2-08-				0-N07232-06/05/78-16-			36-	17.2-	-	-	6.9-	500-	1-1-1-	-	-	-3-	3-1-	-	3-	2-1-	-1-	1-	4-	-	-	-	6.58
48-	36.0489-	102.9639-2-08-				0-N07233-06/05/78-16-			36-	24.5-	C-	-	7.1-	460-	5-1-1-	-	-	-3-	3-1-	-	3-	2-1-	-1-	1-	6-	-	-	-	3.55
48-	36.0533-	102.9275-2-08-				0-N07234-06/05/78-16-			36-	23.8-	C-	-	7.3-	420-	6-1-1-	-	-	-3-	3-1-	-	3-	2-1-	-1-	1-	-	-	-	-	4.44
48-	36.0661-	102.8967-2-08-				0-N07235-06/05/78-17-			36-	17.5-	-	-	7.3-	440-	8-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	1-	-	-	-	-	3.88
48-	36.0822-	102.8917-2-08-				0-N07236-06/05/78-17-			36-	17.5-	-	-	7.3-	550-	4-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	1-	-	-	-	-	5.79
48-	36.1114-	102.8922-2-08-				0-N07237-06/05/78-17-			36-	17.8-	C-	-	7.2-	750-	11-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	3-	6-	-	-	-	3.21
48-	36.0981-	102.9314-2-08-				0-N07238-06/05/78-18-			36-	17.2-	-	-	7.3-	500-	6-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	1-	-	-	-	-	7.40
48-	36.0894-	102.9672-2-08-				0-N07239-06/05/78-18-			36-	16.5-	-	-	7.2-	550-	6-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	4-	-	-	-	6.65
48-	36.0797-	102.9556-2-08-				0-N07240-06/05/78-18-			36-	16.6-	-	-	7.3-	440-	5-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	1-	6-	-	-	-	4.82
48-	36.0861-	102.9103-2-08-				0-N07241-06/09/78-18-			36-	17.8-	-	-	7.2-	440-	5-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	-	-	-	-	5.53
48-	36.2628-	102.4714-2-08-				0-N07242-06/11/78-12-			36-	18.5-	-	-	7.1-	550-	6-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	2-	-	-	-	-	8.35
48-	36.2744-	102.4564-2-08-				0-N07243-06/11/78-12-			36-	20.2-	C-	-	7.1-	500-	8-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	8-	-	-	-	-	6.41
48-	36.3197-	102.4778-2-08-				0-N07245-06/11/78-13-			36-	23.2-	C-	-	6.9-	850-	6-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	8-	-	-	-	-	9.54
48-	36.3511-	102.4861-2-08-				0-N07246-06/11/78-13-			36-	19.8-	-	-	7.2-	750-	7-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	6-	-	-	-	21.87
48-	36.3517-	102.4278-2-08-				0-N07249-06/11/78-13-			36-	18.8-	-	-	7.1-	680-	-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	6-	-	-	-	10.39
48-	36.3328-	102.4325-2-08-				0-N07250-06/11/78-13-			36-	23.8-	C-	-	7.1-	950-	6-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	6-	-	-	-	5.27
48-	36.3303-	102.4128-2-08-				0-N07252-06/11/78-14-			38-	21.8-	-	-	7.3-	700-	6-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	5-	-	-	-	15.27
48-	36.2611-	102.3872-2-08-				0-N07255-06/11/78-14-			36-	18.8-	-	-	6.9-	550-	6-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	6-	-	-	-	9.51
48-	36.2650-	102.3619-2-08-				0-N07256-06/11/78-15-			36-	22.5-	C-	-	7.1-	600-	7-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	3-	-	-	-	-	12.07
48-	36.3200-	102.3256-2-08-				0-N07260-06/11/78-15-			36-	19.5-	-	-	6.9-	600-	5-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	6-	-	-	-	5.83
48-	36.3500-	102.3306-2-08-				0-N07261-06/11/78-16-			36-	23.5-	C-	-	7.1-	430-	10-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	3-	6-	-	-	-	1.50
48-	36.3706-	102.3656-2-08-				0-N07264-06/11/78-16-			36-	20.5-	-	-	7.3-	500-	7-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	-	-	-	-	7.29
48-	36.3647-	102.3236-2-08-				0-N07266-06/11/78-17-			36-	20.5-	-	-	7.4-	550-	10-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	5-	-	-	-	5.08
48-	36.3394-	102.2986-2-08-				0-N07268-06/11/78-17-			35-	18.8-	-	-	7.5-	460-	7-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	3-	6-	-	-	-	8.04
48-	36.2994-	102.2778-2-08-				0-N07270-06/11/78-18-			35-	21.8-	-	-	7.1-	650-	6-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	3-	5-	-	-	-	5.19
48-	36.2775-	102.3011-2-08-				0-N07272-06/11/78-18-			35-	23.5-	-	-	7.1-	700-	7-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	-	-	-	-	6.50
48-	36.2950-	102.4267-2-08-				0-N07273-06/11/78-19-			35-	19.8-	-	-	7.2-	500-	5-1-1-	-	-	-3-	3-1-	-	4-	4-2-1-	-1-	1-	6-	-	-	-	8.11
48-	36.4494-	102.6489-2-08-				0-N07274-06/13/78-10-			30-	18.6-	C-	-	7.1-	900-	6-1-1-	-	-	-3-	3-1-	-	4-	3-2-3-	-1-	2-	-	-	-	-	21.46
48-	36.4908-	102.5286-2-08-				0-N07276-06/13/78-10-			34-	15.8-	-	-	7.1-	780-	6-1-1-	-	-	-3-	3-1-	-	4-	4-2-2-	3-	1-	1-	6-	-	-	5.85
48-	36.4772-	102.6739-2-08-				0-N07277-06/13/78-11-			34-	16.2-	-	-	7.1-	600-	6-1-1-	-	-	-3-	3-1-	-	4-	4-2-2-	-2-	1-	1-	6-	-	-	13.08
48-	36.4872-	102.6919-2-08-				0-N07279-06/13/78-11-			34-	16.5-	-	-	7.1-	800-	10-1-1-	-	-	-3-	3-1-	-	4-	4-2-2-	-2-	1-	1-	-	-	-	20.54
40-	36.8981-	102.4975-2-08-				0-N07279-06/18/78-17-			30-	17.4-	-	-	7.5-	1000-	11-1-6-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	1-	-	-	-	-	23.98*
40-	36.7369-	102.5356-2-08-				0-N07280-06/15/78-14-			34-	24.0-	C-	-	7.3-	470-	6-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	8-	-	-	-	-	6.52
40-	36.7361-	102.6064-2-08-				0-N07281-06/15/78-14-			34-	23.0-	C-	-	7.4-	470-	4-2-4-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	8-	-	-	-	-	8.03
40-	36.7181-	102.6083-2-08-				0-N07282-06/15/78-14-			38-	25.0-	-	-	7.2-	610-	5-1-1-	-	-	-3-	3-1-	-	4-	2-2-1-	-1-	8-	-	-	-	-	9.10
40-	36.7042-	102.5875-2-08-				0-N07283-06/15/78-15-			38-	19.0-	-	-	7.0-	580-	4-2-4-	-	-	-3-	3-1-	-	4-	2-2-1-	-3-	1-	-	-	-	-	7.83
40-	36.7469-	102.5181-2-08-				0-N07284-06/15/78-15-			38-	22.0-	C-	-	6.9-	600-	7-2-4-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	8-	-	-	-	-	6.40
40-	36.7083-	102.5175-2-08-				0-N07285-06/15/78-15-			38-	24.0-	C-	-	-	-	7-2-5-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	1-	-270-	-	-	-	6.36
40-	36.7017-	102.5628-2-08-				0-N07286-06/15/78-16-			38-	25.0-	C-	-	7.3-	420-	4-2-4-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	4-	-300-	-	-	-	9.13
40-	36.6761-	102.6061-2-08-				0-N07287-06/15/78-17-			38-	29.5-	C-	-	7.2-	400-	12-1-4-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	8-	-	-	-	-	9.84
40-	36.6633-	102.5989-2-08-				0-N07288-06/15/78-17-			38-	20.0-	-	-	7.4-	480-	14-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-3-	1-	-	-	-	-	10.37
40-	36.6708-	102.5522-2-08-				0-N07289-06/15/78-17-			33-	22.5-	-	-	7.1-	450-	14-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	2-	-	-	-	-	9.72
40-	36.6450-	102.5314-2-08-				0-N07292-06/15/78-19-			35-	19.5-	-	-	7.1-	475-	2-1-1-	-	-	-2-	3-1-	-	4-	2-2-1-	-3-	1-	-	-	-	-	7.30
40-	36.6408-	102.5697-2-08-				0-N07293-06/15/78-19-			35-	19.5-	-	-	7.2-	470-	6-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-3-	1-	-	-	-	-	7.00
40-	36.5589-	102.5244-2-08-				0-N07295-06/16/78-11-			35-	24.0-	C-	-	7.2-	400-	10-2-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	8-	-	-	-	-	6.71
40-	36.6119-	102.5064-2-08-				0-N07296-06/16/78-11-			35-	23.0-	C-	-	7.6-	470-	8-1-1-	-	-	-1-	3-5-	-	4-	3-2-1-	-3-	1-	-	-	-	-	7.97
40-	36.5969-	102.0792-2-08-				0-N07297-06/16/78-11-			35-	19.8-	-	-	7.4-	470-	7-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-3-	1-	-	-	-	-	7.42
40-	36.6178-	102.0083-2-08-				0-N07298-06/16/78-12-			36-	18.5-	C-	-	7.6-	370-	8-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	8-	-	-	-	-	10.76
40-	36.6031-	102.0067-2-08-				0-N07299-06/16/78-12-			36-	20.5-	C-	-	7.6-	370-	7-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-3-	1-	-	-	-	-	8.86
40-	36.5808-	102.0314-2-08-				0-N07301-06/16/78-13-			38-	21.0-	-	-	7.6-	370-	8-1-1-	-	-	-3-	3-1-	-	4-	3-2-1-	-1-	-	-	-	-	-	6.83
40-	36.5369-	102.0567-2-08-				0-N07303-06/16/78-13-			38-	21.5-	-	-	7.6-	330-	5-1-1-	-	-	-4-	3-1-	-	4-	3-2-1-	-3-	1-	-	-	-	-	3.76

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
40-36.5008-102.0306-2-08-						0-N07304-06/16/78-14-			38-25.0-C-		-		7.6-	400-		4-1-1-	-	-3-3-1-	-4-3-2-1-	-1-	-	-	-	-	4.44
40-36.5217-102.0669-2-08-						0-N07305-06/16/78-14-			38-24.0-C-		-		7.6-	400-		6-2-6-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	-	6.58
40-36.5081-102.1200-2-08-						0-N07306-06/16/78-14-			38-21.5-C-		-		7.4-	400-		16-1-1-	-	-3-3-1-	-4-3-3-1-	-3-1-	-	-	-	-	2.39
40-36.5589-102.0806-2-08-						C-N07307-06/16/78-15-			38-22.5-C-		-		7.4-	370-		8-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	-	5.12
40-36.5536-102.0592-2-08-						0-N07308-06/16/78-16-			38-21.5-C-		-		7.4-	550-		12-1-1-	-	-3-3-1-	-4-2-1-2-	-1-6-	-450-	-	-	-	4.62
40-36.6025-102.1211-2-08-						0-N07309-06/16/78-16-			38-26.0-		-		7.4-	470-		10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-6-	-	-	-	-	5.38
40-36.6747-102.1100-2-08-						0-N07311-06/16/78-17-			38-26.0-C-		-		7.4-	370-		8-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	-	8.83
40-36.6997-102.0661-2-08-						0-N07312-06/16/78-17-			38-22.0-C-		-		7.6-	400-		9-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	-	12.51
40-36.7264-102.0669-2-08-						0-N07313-06/16/78-17-			38-26.0-C-		-		7.7-	370-		10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	-	11.89
40-36.7281-102.0486-2-08-						0-N07315-06/16/78-18-			38-22.0-C-		-		7.6-	420-		16-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	-	11.71
40-36.6844-102.0572-2-08-						0-N07318-06/16/78-19-			38-19.5-		-		7.7-	470-		4-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	-	12.21
40-36.7056-102.0506-2-08-						0-N07319-06/16/78-18-			35-19.5-C-		-		7.7-	470-		6-1-1-	-	-3-3-1-	-4-3-2-2-	-1-	-	-	-	-	11.06
40-36.6550-102.0828-2-08-						0-N07320-06/17/78-12-			36-19.2-		-		7.6-	370-		8-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	-	5.59
40-36.6456-102.0475-2-08-						0-N07321-06/17/78-12-			37-24.0-C-		-		7.8-	320-		10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	-	7.18
40-36.6361-102.2319-2-08-						0-N07323-06/17/78-13-			38-19.8-		-		7.6-	420-		12-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	-	7.45
40-36.6322-102.2106-2-08-						0-N07324-06/17/78-14-			38-24.0-C-		-		7.5-	400-		6-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	-	6.01
40-36.6328-102.1528-2-08-						0-N07325-06/17/78-14-			38-24.0-C-		-		7.5-	420-		10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-1-	-305-	-	-	-	7.29
40-36.6511-102.1747-2-08-						0-N07326-06/17/78-15-			38-28.0-		-		7.6-	400-		14-1-1-	-	-3-3-1-	-4-3-2-2-	-1-4-	-245-	-	-	-	9.67
40-36.6897-102.2108-2-08-						0-N07328-06/17/78-15-			38-19.7-		-		7.8-	1150-		10-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	-	16.06
48-36.3169-102.9839-2-08-						C-N07329-06/12/78-19-			32-18.0-C-		-		7.4-	500-		4-1-6-	-	-3-3-1-	-4-2-1-1-	-1-3-	-	-	-	-	5.95
48-36.3142-102.9406-2-08-						0-N07330-06/12/78-19-			32-19.8-C-		-		7.5-	500-		13-1-6-	-	-3-3-1-	-2-2-1-1-	-1-3-	-	-	-	-	6.47
48-36.3164-102.8983-2-08-						0-N07331-06/12/78-19-			30-17.2-		-		7.7-	500-		5-1-6-	-	-3-3-1-	-4-2-1-1-	-1-1-	6-	-	-	-	4.25
48-36.2717-102.8531-2-08-						0-N07332-06/12/78-20-			30-19.5-C-		-		7.5-	500-		7-1-6-	-	-3-3-1-	-2-2-1-1-	-1-3-	-	-	-	-	4.84
48-36.3503-102.8911-2-08-						0-N07334-06/13/78-11-			31-19.4-C-		-		7.3-	500-		8-1-6-	-	-3-3-1-	-4-2-1-2-	-1-3-	-	-	-	-	3.17
48-36.3381-102.9333-2-08-						0-N07335-06/13/78-12-			32-17.6-C-		-		7.6-	480-		10-1-6-	-	-3-3-1-	-2-2-2-2-	-1-3-	-	-	-	-	4.18
48-36.3378-102.9642-2-08-						0-N07336-06/13/78-12-			32-16.9-		-		7.6-	500-		6-1-6-	-	-3-3-1-	-4-2-1-2-	-1-1-	6-	-	-	-	5.56
48-36.3589-102.9822-2-08-						0-N07340-06/13/78-13-			32-20.8-		-		8.0-	420-		9-1-6-	-	-2-3-1-	-4-2-1-2-	-1-1-	-	-	-	-	4.06
48-36.3531-102.8614-2-08-						0-N07342-06/13/78-14-			32-19.2-		-		7.4-	650-		6-1-6-	-	-3-3-1-	-4-2-1-2-	-1-1-	8-	-	-	-	61.04*
48-36.3453-102.8386-2-08-						0-N07344-06/13/78-14-			32-17.6-		-		7.6-	500-		11-1-6-	-	-3-3-1-	-4-2-1-1-	-1-1-	6-	60-	-	-	7.33
48-36.3683-102.8222-2-08-						0-N07346-06/13/78-15-			33-17.2-		-		7.8-	500-		11-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	-	-	-	-	10.84
48-36.3642-102.7983-2-08-						0-N07347-06/13/78-15-			33-17.0-		-		7.7-	600-		12-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	8-	-	-	-	12.17
48-36.3661-102.7775-2-08-						0-N07348-06/13/78-15-			33-17.3-		-		7.6-	700-		18-1-6-	-	-3-3-1-	-4-2-1-2-	-1-1-	6-	-	-	-	18.42*
48-36.3267-102.7989-2-08-						0-N07349-06/13/78-15-			33-18.2-		-		7.5-	800-		8-1-6-	-	-3-3-1-	-3-2-2-2-	-1-1-	-	-	-	-	14.42
48-36.3153-102.7708-2-08-						0-N07350-06/13/78-16-			33-18.8-		-		7.8-	700-		7-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	6-	-	-	-	21.87*
48-36.3192-102.7156-2-08-						0-N07351-06/13/78-16-			33-20.0-C-		-		8.8-	1300-		15-1-6-	-	-3-3-1-	-3-2-1-1-	-1-3-	6-	612-	420-		2.79
48-36.3308-102.6703-2-08-						0-N07352-06/13/78-16-			32-18.9-		-		7.7-	500-		10-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	-	-	-	-	5.82
48-36.3531-102.6967-2-08-						0-N07353-06/13/78-16-			32-18.2-		-		7.5-	600-		7-1-6-	-	-3-3-1-	-3-3-1-1-	-1-1-	-	-	-	-	9.45
48-36.3489-102.6464-2-08-						0-N07355-06/13/78-17-			32-20.3-		-		8.0-	1400-		12-1-6-	-	-3-2-2-	-3-3-1-1-	-1-1-	8-	-	-	-	2.55
48-36.3058-102.6539-2-08-						0-N07357-06/13/78-18-			30-17.2-		-		7.6-	480-		9-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	-	-	-	-	5.39
48-36.3131-102.6783-2-08-						0-N07359-06/13/78-18-			30-18.2-		-		7.9-	500-		4-1-6-	-	-3-3-1-	-3-3-1-2-	-1-1-	-	-	-	-	6.85
48-36.3022-102.8392-2-08-						0-N07360-06/13/78-18-			30-18.5-		-		7.8-	650-		4-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	-	-	-	-	10.72
48-36.2569-102.8044-2-08-						0-N07361-06/13/78-19-			30-18.0-		-		7.5-	500-		6-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	-	-	-	-	4.90
48-36.2744-102.7678-2-08-						0-N07362-06/13/78-19-			30-22.0-C-		-		7.6-	500-		5-1-6-	-	-3-3-1-	-2-1-1-2-	-1-3-	-150-	-	-	-	5.35
48-36.3453-102.7328-2-08-						0-N07363-06/14/78-11-			32-17.2-C-		-		7.5-	500-		5-1-6-	-	-3-3-2-	-3-3-1-1-	-1-1-	8-	-	-	-	4.13
48-36.2942-102.6614-2-08-						0-N07364-06/14/78-11-			34-19.0-C-		-		7.7-	500-		12-1-6-	-	-3-3-1-	-3-3-1-1-	-1-1-	-	-	-	-	9.20
48-36.2689-102.6328-2-08-						0-N07365-06/14/78-12-			34-18.9-		-		7.5-	600-		8-1-6-	-	-3-3-1-	-4-2-1-1-	-1-1-	-	-	-	-	9.23
48-36.2750-102.6789-2-08-						0-N07366-06/14/78-12-			34-18.9-C-		-		7.8-	600-		5-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	-	-	-	-	11.68
48-36.2842-102.6944-2-08-						0-N07367-06/14/78-12-			34-19.0-C-		-		7.6-	600-		6-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	-	-	-	-	6.67
48-36.2975-102.7169-2-08-						0-N07368-06/14/78-12-			34-18.2-C-		-		7.5-	800-		8-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	-	-	-	-	6.67
48-36.3175-102.7442-2-08-						0-N07369-06/14/78-13-			34-17.9-C-		-		7.5-	500-		15-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	-	-	-	-	6.67
40-36.5061-102.8289-2-08-						0-N07372-06/14/78-14-			35-18.2-		-		7.6-	240-		13-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	6-	-	-	-	6.67

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
4C-	36.5314-	102.8311-2-	08-			0-N07374-	06/14/78-	14-	35-	17.5-	-	-	7.6-	350-		6-1-6-	-	-3-3-1-	-3-3-1-2-	-1-1-	-	-	-								6.67
4C-	36.5311-	102.8608-2-	08-			0-N07376-	06/14/78-	15-	35-	17.5-	-	-	7.5-	470-		8-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	-	-	-								6.67
48-	36.2450-	102.2417-2-	08-			0-N07379-	06/12/78-	14-	30-	20.4-	-	-	7.6-	550-		12-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								5.92
48-	36.2694-	102.2425-2-	08-			0-N07380-	06/12/78-	15-	30-	20.8-	-	-	7.4-	650-		9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-2-	-	-	-								12.51
48-	36.2956-	102.2406-2-	08-			0-N07382-	06/12/78-	15-	30-	19.3-	-	-	7.4-	500-		11-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-500-	-									4.84
48-	36.3578-	102.2397-2-	08-			0-N07385-	06/12/78-	15-	31-	18.8-	-	-	7.5-	500-		11-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								3.87
48-	36.3336-	102.2103-2-	08-			0-N07388-	06/12/78-	16-	30-	21.4-	-	-	7.5-	525-		6-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								10.90
48-	36.3717-	102.1461-2-	08-			0-N07390-	06/12/78-	16-	30-	19.2-	-	-	7.3-	500-		6-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								7.87
48-	36.3169-	102.1819-2-	08-			0-N07393-	06/12/78-	17-	28-	18.8-	-	-	7.1-	600-		2-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								13.64*
48-	36.2947-	102.1711-2-	08-			0-N07394-	06/12/78-	17-	28-	21.2-	-	-	7.1-	525-		9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-600-	-									4.01
48-	36.2631-	102.1853-2-	08-			0-N07395-	06/12/78-	18-	28-	21.4-	-	-	7.6-	550-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-								7.59
48-	36.2481-	102.1817-2-	08-			0-N07396-	06/12/78-	18-	28-	18.8-	-	-	7.3-	450-		13-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								7.20
48-	36.2414-	102.2056-2-	08-			0-N07397-	06/12/78-	18-	27-	18.6-	-	-	7.3-	495-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								9.07
48-	36.2017-	102.2219-2-	08-			0-N07398-	06/12/78-	18-	27-	17.2-	C-	-	7.4-	550-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-								5.80
48-	36.2075-	102.1864-2-	08-			0-N07399-	06/12/78-	19-	26-	17.2-	-	-	7.4-	285-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-	-	-								2.40
48-	36.2331-	102.1508-2-	08-			0-N07400-	06/12/78-	19-	26-	18.8-	-	-	7.3-	575-		13-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								6.17
48-	36.2194-	102.1867-2-	08-			0-N07401-	06/12/78-	19-	26-	18.2-	-	-	7.3-	500-		6-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								5.92
48-	36.2722-	102.6083-2-	08-			0-N07402-	06/13/78-	16-	28-	19.6-	-	-	7.6-	470-		16-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								6.96
48-	36.2706-	102.5542-2-	08-			0-N07403-	06/13/78-	16-	28-	18.4-	-	-	7.8-	550-		4-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-	-	-								34.47*
48-	36.3086-	102.5486-2-	08-			0-N07404-	06/13/78-	16-	28-	19.8-	-	-	7.6-	600-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								9.34
48-	36.3394-	102.5586-2-	08-			0-N07405-	06/13/78-	17-	28-	18.8-	-	-	7.4-	1200-		9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								22.83
48-	36.3683-	102.5014-2-	08-			0-N07406-	06/13/78-	17-	28-	21.0-	C-	-	7.9-	625-		11-1-6-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-								16.77*
48-	36.3872-	102.5175-2-	08-			0-N07407-	06/13/78-	17-	28-	19.2-	-	-	7.8-	625-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								11.42
48-	36.3975-	102.5733-2-	08-			0-N07408-	06/13/78-	18-	28-	17.2-	-	-	7.8-	750-		13-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								30.25*
48-	36.3536-	102.5069-2-	08-			0-N07409-	06/13/78-	18-	27-	17.9-	-	-	7.8-	700-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								20.36
48-	36.3875-	102.5069-2-	08-			0-N07410-	06/13/78-	18-	27-	17.2-	-	-	7.4-	1700-		9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								41.58*
48-	36.3689-	102.5403-2-	08-			0-N07412-	06/13/78-	18-	27-	24.2-	C-	-	8.2-	1000-		13-1-6-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-								28.73
48-	36.3522-	102.5317-2-	08-			0-N07413-	06/13/78-	18-	26-	18.2-	-	-	7.9-	975-		5-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								30.41
48-	36.3014-	102.5103-2-	08-			0-N07414-	06/13/78-	19-	27-	19.6-	-	-	7.8-	600-		5-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								8.02
48-	36.4314-	102.5289-2-	08-			0-N07417-	06/14/78-	11-	27-	16.8-	-	-	7.4-	675-		9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								6.87
48-	36.4286-	102.5922-2-	08-			0-N07418-	06/14/78-	11-	27-	18.8-	-	-	7.2-	1175-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								72.40*
48-	36.4331-	102.6197-2-	08-			0-N07420-	06/14/78-	11-	28-	17.6-	-	-	7.2-	750-		4-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								47.42*
48-	36.4558-	102.6122-2-	08-			0-N07421-	06/14/78-	11-	28-	18.6-	-	-	7.6-	700-		3-1-6-	-	-3-3-1-	-4-3-2-2-	-1-2-	-	-	-								6.78
48-	36.4697-	102.5750-2-	08-			0-N07422-	06/14/78-	12-	28-	17.2-	-	-	7.4-	625-		6-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								5.52
48-	36.4656-	102.5211-2-	08-			0-N07423-	06/14/78-	12-	28-	18.8-	-	-	7.4-	725-		10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								15.51
48-	36.4872-	102.5703-2-	08-			0-N07424-	06/14/78-	12-	29-	18.4-	C-	-	7.3-	500-		11-1-6-	-	-3-3-1-	-4-3-2-2-	-1-9-	-	-	-								7.35
48-	36.4475-	102.5492-2-	08-			0-N07425-	06/14/78-	12-	30-	21.8-	C-	-	7.2-	600-		6-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-200-	170-									11.67
48-	36.4408-	102.5131-2-	08-			0-N07426-	06/14/78-	12-	30-	19.1-	-	-	7.2-	875-		3-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								22.62*
48-	36.4661-	102.4842-2-	08-			0-N07427-	06/14/78-	13-	30-	18.4-	-	-	7.6-	800-		4-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								21.70
48-	36.4517-	102.4453-2-	08-			0-N07428-	06/14/78-	13-	30-	19.4-	-	-	7.4-	575-		8-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-								5.98
48-	36.4564-	102.5931-2-	08-			0-N07429-	06/13/78-	11-	34-	17.2-	C-	-	7.2-	1100-		15-1-1-	-	-3-3-1-	-4-4-2-2-	-1-3-	6-	-	-								30.48*
48-	36.4244-	102.7383-2-	08-			C-N07430-	06/13/78-	11-	34-	17.8-	-	-	7.1-	1100-		7-1-1-	-	-3-3-1-	-4-4-2-2-	-1-1-	6-	-	-								47.61*
48-	36.3972-	102.7250-2-	08-			0-N07431-	06/13/78-	12-	32-	14.8-	-	-	7.1-	900-		9-1-1-	-	-3-3-1-	-4-4-2-2-	-1-1-	6-	-	-								34.17
48-	36.4119-	102.7150-2-	08-			C-N07433-	06/13/78-	12-	32-	16.2-	-	-	6.9-	1500-		7-1-1-	-	-3-3-1-	-4-4-2-2-	-1-1-	6-	-	-								54.01*
48-	36.4006-	102.6858-2-	08-			0-N07434-	06/13/78-	12-	32-	17.5-	-	-	7.0-	1000-		5-1-1-	-	-3-3-1-	-4-4-2-2-	-1-1-	5-	-	-								35.69
48-	36.3764-	102.6431-2-	08-			0-N07435-	06/13/78-	13-	34-	17.8-	-	-	7.1-	600-		3-1-1-	-	-3-3-1-	-4-4-2-2-	-1-1-	6-	-	-								9.05
48-	36.3889-	102.6681-2-	08-			0-N07436-	06/13/78-	13-	34-	17.5-	-	-	7.2-	650-		5-1-1-	-	-3-3-1-	-4-4-2-2-	-1-1-	6-	-	-								15.17
48-	36.4939-	102.7458-2-	08-			0-N07438-	06/13/78-	14-	36-	16.5-	-	-	7.1-	550-		8-1-1-	-	-3-3-1-	-4-4-2-1-	-1-1-	5-	-	-								10.58
48-	36.4789-	102.7128-2-	08-			0-N07440-	06/13/78-	14-	36-	17.5-	-	-	7.2-	950-		10-1-1-	-	-3-3-1-	-4-4-2-1-	-1-1-	6-	-	-								16.20
48-	36.4700-	102.7703-2-	08-			0-N07441-	06/13/78-	15-	36-	17.8-	-	-	7.1-	650-		3-1-1-	-	-3-3-1-	-4-4-2-1-	-1-1-	6-	-	-								6.70
48-	36.4881-	102.8022-2-	08-			0-N07443-	06/13/78-	15-	36-	17.8-	-	-	7.0-	470-		9-1-1-	-	-3-3-1-	-4-4-2-1-	-1-1-	6-	-	-								10.27

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
48-	36.4678-	102.8553-2-08-				0-N07446-	06/13/78-	15-	36-	18.4-	-	-	7.2-	445-		6-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	6-	-	-	5.83
48-	36.4472-	102.8000-2-08-				0-N07449-	06/13/78-	16-	36-	18.2-	-	-	7.5-	1000-		5-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	6-	-	-	3.76
48-	36.4358-	102.7744-2-08-				0-N07450-	06/13/78-	16-	36-	15.8-	-	-	7.4-	800-		4-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	5-	-	-	11.45
48-	36.4119-	102.7647-2-08-				0-N07451-	06/13/78-	16-	36-	-	-	-	7.5-	700-		10-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	6-	-	-	30.08*
48-	36.4114-	102.7839-2-08-				0-N07452-	06/13/78-	17-	36-	17.5-	-	-	7.6-	850-		6-	1-	1-	-	-3-	3-	2-	-4-	4-	2-	1-	-1-	1-	-	-	-	34.64
48-	36.3889-	102.8197-2-08-				0-N07453-	06/13/78-	17-	36-	20.2-	C-	-	7.3-	500-		10-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	8-	-	-	-	5.37
48-	36.4067-	102.8592-2-08-				0-N07454-	06/13/78-	17-	36-	18.6-	C-	-	7.3-	650-		9-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	3-	6-	100-	68-	7.56
48-	36.4372-	102.8406-2-08-				0-N07455-	06/13/78-	17-	32-	16.5-	-	-	7.2-	470-		8-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	1-	6-	-	-	10.29
48-	36.4081-	102.8319-2-08-				0-N07456-	06/13/78-	18-	32-	16.4-	-	-	7.3-	500-		10-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	1-	-	-	-	8.74
48-	36.3797-	102.9622-2-08-				0-N07457-	06/14/78-	10-	34-	17.2-	-	-	7.1-	440-		8-	1-	1-	-	-3-	3-	1-	-4-	3-	2-	1-	-1-	1-	-	-	-	5.00
48-	36.4317-	102.9436-2-08-				0-N07460-	06/14/78-	11-	36-	16.8-	-	-	7.1-	460-		5-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	5-	-	-	5.88
48-	36.4106-	102.9625-2-08-				0-N07461-	06/14/78-	11-	36-	16.6-	-	-	7.2-	500-		6-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	5-	-	-	2.14
48-	36.4175-	102.9875-2-08-				0-N07462-	06/14/78-	11-	36-	17.8-	-	-	7.1-	480-		9-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	6-	-	-	2.14
48-	36.4475-	102.9644-2-08-				0-N07465-	06/14/78-	12-	36-	17.2-	-	-	7.1-	410-		13-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	5-	-	-	5.35
48-	36.4853-	102.9764-2-08-				0-N07467-	06/14/78-	12-	37-	16.6-	-	-	7.2-	380-		9-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	6-	-	-	3.69
48-	36.4428-	102.8933-2-08-				0-N07469-	06/14/78-	13-	38-	19.8-	C-	-	7.1-	410-		0-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	2-	-	-	-	3.75
48-	36.4672-	102.8917-2-08-				0-N07470-	06/14/78-	13-	38-	20.5-	C-	-	7.3-	480-		10-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	3-	6-	120-	90-	5.76
48-	36.4869-	102.9053-2-08-				0-N07472-	06/14/78-	13-	38-	16.5-	-	-	7.2-	700-		8-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	3-	6-	-	-	8.39
40-	36.5064-	102.8931-2-08-				0-N07473-	06/14/78-	13-	38-	18.5-	-	-	7.2-	380-		5-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	-	-	-	3.16
40-	36.5342-	102.9161-2-08-				0-N07475-	06/14/78-	14-	38-	17.5-	-	-	7.2-	390-		5-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	1-	-1-	1-	6-	-	-	2.36
40-	36.5164-	102.9475-2-08-				0-N07477-	06/14/78-	14-	38-	24.3-	C-	-	7.2-	410-		6-	1-	1-	-	-3-	3-	1-	-4-	4-	2-	2-	-1-	1-	6-	-	-	2.79
48-	36.4247-	102.4328-2-08-				0-N07479-	06/14/78-	13-	30-	19.6-	-	-	7.5-	600-		9-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	7.21
48-	36.4250-	102.4097-2-08-				0-N07480-	06/14/78-	14-	31-	19.3-	-	-	7.6-	525-		4-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	8.34
48-	36.3942-	102.3936-2-08-				0-N07483-	06/14/78-	14-	31-	20.4-	-	-	7.7-	470-		12-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	12.92*
48-	36.3814-	102.4503-2-08-				0-N07486-	06/14/78-	15-	31-	18.6-	-	-	7.7-	495-		11-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	0.28
48-	36.4217-	102.4861-2-08-				0-N07489-	06/14/78-	16-	31-	18.7-	-	-	7.6-	675-		6-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	5.34
48-	36.3861-	102.4858-2-08-				0-N07490-	06/14/78-	16-	30-	24.9-	C-	-	7.8-	600-		13-	1-	6-	-	-1-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	13.57
40-	36.5017-	102.4908-2-08-				0-N07491-	06/14/78-	16-	30-	17.8-	-	-	7.4-	625-		6-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	6.16
40-	36.5078-	102.4369-2-08-				0-N07492-	06/14/78-	16-	30-	19.6-	-	-	7.3-	700-		3-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	7.60
40-	36.5356-	102.4500-2-08-				0-N07493-	06/14/78-	17-	30-	18.8-	-	-	7.4-	525-		6-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	7.38
40-	36.5622-	102.4467-2-08-				0-N07494-	06/14/78-	17-	30-	18.3-	-	-	7.3-	500-		8-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	3.40
40-	36.5533-	102.4242-2-08-				0-N07495-	06/14/78-	17-	30-	17.7-	-	-	7.3-	575-		10-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	5.50
40-	36.5417-	102.3886-2-08-				0-N07496-	06/14/78-	18-	28-	19.2-	-	-	7.2-	550-		13-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	6.02
40-	36.5658-	102.4003-2-08-				0-N07497-	06/14/78-	18-	28-	18.4-	-	-	7.2-	525-		9-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	5.08
48-	36.4889-	102.4486-2-08-				0-N07498-	06/14/78-	18-	28-	17.8-	-	-	7.2-	500-		9-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	4.48
48-	36.4919-	102.4614-2-08-				0-N07499-	06/14/78-	19-	28-	17.2-	-	-	7.3-	500-		3-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	5.97
48-	36.4331-	102.4733-2-08-				0-N07500-	06/14/78-	19-	28-	18.2-	-	-	7.5-	800-		10-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	7.55
48-	36.4864-	102.2425-2-08-				0-N07502-	06/15/78-	14-	35-	27.4-	C-	-	7.6-	500-		6-	1-	6-	-	-1-	3-	1-	-4-	3-	2-	2-	-3-	1-	-	-	-	1.61
48-	36.4936-	102.1792-2-08-				0-N07504-	06/15/78-	14-	36-	19.2-	-	-	7.5-	460-		10-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	3.74
48-	36.4975-	102.1478-2-08-				0-N07506-	06/15/78-	14-	36-	19.0-	-	-	7.4-	475-		10-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	6.08
48-	36.4900-	102.1033-2-08-				0-N07508-	06/15/78-	15-	36-	18.9-	-	-	7.4-	470-		10-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	5.60
48-	36.4767-	102.1267-2-08-				0-N07510-	06/15/78-	15-	36-	20.0-	-	-	7.4-	420-		6-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	4.28
40-	36.6067-	102.2289-2-08-				0-N07514-	06/15/78-	16-	35-	22.4-	C-	-	7.5-	460-		9-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-	-	-	5.66
40-	36.5906-	102.2289-2-08-				0-N07515-	06/15/78-	16-	35-	22.3-	C-	-	7.4-	480-		9-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	-	-	5.48
40-	36.6169-	102.1939-2-08-				0-N07516-	06/15/78-	16-	35-	22.4-	C-	-	7.4-	480-		12-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	-	-	6.99
40-	36.5950-	102.1878-2-08-				0-N07517-	06/15/78-	16-	35-	19.4-	-	-	7.5-	475-		12-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	6.54
40-	36.5747-	102.2075-2-08-				0-N07518-	06/15/78-	16-	34-	19.8-	C-	-	7.6-	450-		4-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	-	-	5.32
40-	36.5617-	102.2128-2-08-				0-N07519-	06/15/78-	16-	34-	19.6-	-	-	7.6-	445-		5-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	1-	-	-	-	2.94
40-	36.5553-	102.1844-2-08-				0-N07520-	06/15/78-	16-	34-	19.6-	C-	-	7.4-	480-		6-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-	-	-	5.64
40-	36.5583-	102.1567-2-08-				0-N07522-	06/15/78-	17-	34-	23.8-	C-	-	7.6-	430-		9-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	8-	-	-	-	3.97
40-	36.5589-	102.1356-2-08-				0-N07523-	06/15/78-	17-	34-	20.2-	C-	-	7.6-	500-		6-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-	-	-	-	7.11

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
40-36.5806-102.1569-2-08-						0-N07524-06/15/78-18-	34-20.2-0-		-	-			7.6-	490-	6-1-6-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	7.25
40-36.6114-102.1400-2-08-						0-N07525-06/15/78-18-	33-24.2-0-		-	-			7.6-	440-	4-1-6-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	6.71
40-36.6017-102.1622-2-08-						0-N07526-06/15/78-18-	32-22.8-0-		-	-			7.5-	525-	9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-	-	-	9.39
40-36.5958-102.2656-2-08-						0-N07527-06/15/78-18-	32-17.8-		-	-			7.6-	600-	4-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	7.51
40-36.5481-102.7558-2-08-						0-N07529-06/14/78-15-	35-18.0-		-	-			7.8-	320-	8-1-6-	-	-2-3-1-	-3-2-1-2-	-1-1-	-	-	-	5.91
40-36.5747-102.8225-2-08-						0-N07531-06/14/78-16-	36-18.0-0-		-	-			7.5-	500-	4-1-6-	-	-3-3-1-	-2-2-1-1-	-1-3-	-	-	-	7.59
40-36.5844-102.7722-2-08-						0-N07533-06/14/78-16-	36-20.6-		-	-			7.3-	600-	9-1-6-	-	-3-3-1-	-3-3-1-2-	-1-1-	-	-	-	4.65
40-36.6017-102.8356-2-08-						0-N07534-06/14/78-16-	37-18.5-		-	-			7.5-	550-	12-1-6-	-	-3-3-1-	-3-2-2-2-	-1-1-	8-	-	-	7.32
40-36.6103-102.8225-2-08-						0-N07535-06/14/78-17-	36-18.2-		-	-			7.4-	500-	6-1-6-	-	-3-3-1-	-3-2-2-2-	-1-1-	8-	-	-	3.74
40-36.6028-102.7775-2-08-						0-N07536-06/14/78-17-	37-17.9-		-	-			7.4-	600-	4-1-6-	-	-3-3-1-	-3-2-2-2-	-1-1-	6-	-	-	6.52
40-36.5525-102.7394-2-08-						0-N07537-06/14/78-18-	37-18.3-		-	-			7.5-	400-	4-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	-	-	-	3.69
40-36.5367-102.7097-2-08-						0-N07538-06/14/78-18-	33-17.8-		-	-			7.5-	420-	3-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	-	-	-	4.48
40-36.5197-102.7247-2-08-						0-N07540-06/14/78-18-	37-16.9-		-	-			7.5-	470-	4-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	-	-	-	2.71
40-36.5094-102.6731-2-08-						0-N07542-06/14/78-19-	36-19.0-		-	-			7.6-	400-	8-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	-	-	-	5.96
40-36.5119-102.6425-2-08-						0-N07543-06/14/78-19-	36-17.9-		-	-			7.5-	420-	6-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	-	-	-	3.30
40-36.5311-102.6822-2-08-						0-N07544-06/14/78-19-	36-17.0-		-	-			7.5-	500-	10-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	-	-	-	4.80
40-36.5519-102.6747-2-08-						0-N07545-06/14/78-19-	36-16.9-		-	-			7.5-	500-	6-1-6-	-	-3-3-1-	-3-3-1-1-	-1-1-	8-	-	-	4.98
40-36.5747-102.7158-2-08-						0-N07546-06/14/78-20-	35-18.0-0-		-	-			7.5-	480-	12-1-6-	-	-3-3-1-	-2-2-1-1-	-1-8-	-	-	-	4.49
40-36.6053-102.7186-2-08-						0-N07547-06/14/78-20-	34-17.5-		-	-			7.5-	450-	5-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	8-	-	-	3.64
40-36.6089-102.6797-2-08-						0-N07548-06/15/78-14-	37-22.0-0-		-	-			7.4-	450-	8-1-6-	-	-3-3-1-	-4-2-2-1-	-1-3-	-306-	-	3.37
40-36.6122-102.6550-2-08-						0-N07549-06/15/78-14-	37-18.2-		-	-			7.6-	480-	16-1-6-	-	-3-3-1-	-3-2-2-1-	-1-1-	5-	-	-	3.97
40-36.5872-102.6600-2-08-						0-N07551-06/15/78-15-	38-21.0-		-	-			7.7-	500-	6-1-6-	-	-3-3-1-	-3-2-2-2-	-1-1-	-	-	-	2.52
40-36.5967-102.7394-2-08-						0-N07552-06/15/78-15-	38-17.9-		-	-			7.5-	600-	4-1-6-	-	-3-3-1-	-3-2-2-2-	-1-1-	8-	-	-	8.76
40-36.6444-102.8050-2-08-						0-N07553-06/15/78-15-	39-19.5-0-		-	-			7.5-	500-	7-1-6-	-	-3-3-1-	-2-2-1-1-	-1-3-	-180-	-	-	4.77
40-36.6358-102.8419-2-08-						0-N07554-06/15/78-16-	38-22.1-0-		-	-			7.5-	550-	13-1-6-	-	-3-3-1-	-4-2-1-1-	-1-8-	-	-	-	5.36
40-36.6519-102.8469-2-08-						0-N07555-06/15/78-16-	38-18.3-		-	-			7.5-	500-	10-1-6-	-	-3-3-1-	-3-2-1-2-	-1-1-	-	-	-	5.80
40-36.6839-102.8131-2-08-						0-N07556-06/15/78-16-	38-20.5-0-		-	-			7.5-	500-	5-1-6-	-	-3-3-1-	-2-2-1-2-	-1-8-	-	-	-	4.43
40-36.6739-102.7694-2-08-						0-N07557-06/15/78-17-	38-20.5-0-		-	-			7.5-	400-	7-1-6-	-	-3-3-1-	-2-2-1-1-	-1-3-	-160-	-	-	6.15
40-36.7025-102.7872-2-08-						0-N07558-06/15/78-17-	38-20.8-0-		-	-			7.6-	500-	8-1-6-	-	-3-3-1-	-4-2-1-1-	-1-3-	-150-	-	-	3.51
40-36.7011-102.8403-2-08-						0-N07559-06/15/78-17-	38-20.5-0-		-	-			7.5-	480-	6-1-6-	-	-3-3-1-	-3-2-1-1-	-1-3-	-180-	-	-	3.10
40-36.6897-102.8731-2-08-						0-N07560-06/15/78-17-	38-22.9-		-	-			7.5-	600-	12-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	-	-	-	2.48
40-36.7344-102.8575-2-08-						0-N07562-06/15/78-18-	38-18.1-0-		-	-			7.3-	480-	8-1-6-	-	-3-3-1-	-2-2-1-1-	-1-3-	-300-	-	-	3.90
40-36.7181-102.8219-2-08-						0-N07563-06/15/78-18-	39-20.0-0-		-	-			7.4-	550-	14-1-6-	-	-3-3-1-	-2-2-1-1-	-1-3-	-200-	-	-	5.59
40-36.7461-102.8039-2-08-						0-N07566-06/15/78-18-	39-23.5-0-		-	-			7.4-	460-	14-1-6-	-	-3-3-1-	-2-2-1-1-	-1-3-	-200-	-	-	5.66
40-36.7183-102.8053-2-08-						0-N07567-06/15/78-19-	38-20.5-0-		-	-			7.5-	490-	6-1-6-	-	-3-3-1-	-4-2-1-1-	-1-3-	-200-	168-	-	2.76
40-36.7128-102.7686-2-08-						0-N07568-06/15/78-19-	38-18.1-		-	-			7.6-	500-	10-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	6-	-	-	3.52
40-36.7361-102.7647-2-08-						0-N07569-06/15/78-19-	38-17.4-		-	-			7.5-	500-	6-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	6-	-	-	4.32
40-36.7306-102.7308-2-08-						0-N07570-06/15/78-19-	38-19.6-		-	-			7.6-	480-	10-1-6-	-	-3-3-1-	-3-2-1-1-	-1-1-	8-	-	-	6.40
40-36.7433-102.7053-2-08-						0-N07571-06/15/78-20-	38-22.3-		-	-			7.9-	500-	7-1-6-	-	-2-2-1-	-3-2-2-1-	-1-1-	-	-	-	3.14
40-36.7331-102.6561-2-08-						0-N07572-06/15/78-20-	38-22.2-0-		-	-			7.8-	500-	12-1-6-	-	-3-3-1-	-2-2-1-1-	-1-2-	-	-	-	4.51
40-36.6167-102.5667-2-08-						0-N07573-06/16/78-10-	30-22.1-0-		-	-			7.4-	500-	8-1-6-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	4.66
40-36.6172-102.6086-2-08-						0-N07574-06/16/78-10-	30-17.1-		-	-			7.5-	525-	4-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	7.17
40-36.6200-102.5844-2-08-						0-N07575-06/16/78-10-	31-18.8-0-		-	-			7.6-	500-	11-1-6-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	7.82
40-36.5647-102.5619-2-08-						0-N07576-06/16/78-10-	32-18.8-0-		-	-			7.2-	460-	6-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-	-	-	1.91
40-36.5483-102.5714-2-08-						0-N07577-06/16/78-11-	32-17.2-		-	-			7.7-	435-	6-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	3.89
40-36.5689-102.6067-2-08-						0-N07578-06/16/78-11-	38-18.8-0-		-	-			7.5-	500-	4-1-6-	-	-3-3-1-	-2-2-1-1-	-1-3-	-130-	110-	-	5.27
40-36.5369-102.5922-2-08-						0-N07579-06/14/78-14-	38-17.8-		-	-			7.3-	380-	5-1-1-	-	-3-3-1-	-4-4-2-2-	-1-1-	6-	-	-	2.60
40-36.5450-102.5450-2-08-						0-N07580-06/14/78-15-	38-20.5-0-		-	-			7.1-	360-	11-1-1-	-	-3-3-1-	-4-4-2-2-	-1-3-	6-	-	-	1.58
40-36.5669-102.5936-2-08-						0-N07582-06/14/78-15-	38-17.8-		-	-			7.1-	550-	3-1-1-	-	-3-3-1-	-4-4-2-2-	-1-1-	6-	-	-	3.62
40-36.5903-102.5631-2-08-						0-N07584-06/14/78-15-	38-15.5-		-	-			7.2-	440-	3-1-1-	-	-3-3-1-	-4-4-2-2-	-1-1-	4-	-	-	11.29*
40-36.5831-102.5228-2-08-						0-N07586-06/14/78-16-	38-23.5-		-	-			7.3-	500-	5-1-1-	-	-3-3-1-	-4-2-2-2-	-1-1-	5-	-	-	2.44

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
40	36.5897	102.8928	2	08		0-N07588	06/14/78	16	38	16.8	-	-	7.2	550	4	1	1	-	-	3	3	1	-	4	2	2	2	-	1	1	6	-	-	3.41
40	36.6436	102.9417	2	08		0-N07594	06/14/78	18	36	16.5	-	-	7.2	650	5	1	1	-	-	3	3	1	-	4	4	2	2	-	1	1	6	-	-	5.83
40	36.6458	102.9022	2	08		0-N07595	06/14/78	18	36	16.8	-	-	7.2	500	3	1	1	-	-	3	3	1	-	4	3	2	2	-	1	1	5	-	-	5.27
40	36.6853	102.9217	2	08		0-N07596	06/14/78	19	36	16.2	-	-	7.1	500		1	1	-	-	3	3	1	-	4	3	2	2	-	1	1	6	-	-	3.51
40	36.7111	102.8950	2	08		0-N07597	06/14/78	19	35	16.5	C	-	7.2	600	11	1	1	-	-	3	3	1	-	4	4	2	2	-	1	3	-	-	-	3.03
40	36.7100	102.8756	2	08		0-N07598	06/14/78	19	35	17.5	C	-	7.2	650	10	1	1	-	-	3	3	1	-	4	3	2	2	-	1	3	-	-	-	3.36
40	36.7372	102.9122	2	08		0-N07599	06/14/78	19	35	16.5	-	-	7.1	1000	5	1	1	-	-	3	3	1	-	4	4	2	2	-	1	1	5	-	-	6.43
40	36.7169	102.9203	2	08		0-N07600	06/14/78	19	35	16.0	-	-	7.1	600	8	1	1	-	-	3	3	1	-	4	4	2	2	-	1	1	6	-	-	3.59
40	36.6767	102.9928	2	08		0-N07601	06/14/78	20	35	20.2	C	-	7.1	500	5	1	1	-	-	3	3	1	-	4	4	2	2	-	1	8	-	-	-	1.50
40	36.7022	102.9847	2	08		0-N07602	06/14/78	20	35		-	-	7.1	650	10	1	1	-	-	3	3	1	-	4	3	2	2	-	1	3	6	150	-	5.26
40	36.7047	102.9492	2	08		0-N07603	06/14/78	20	35	20.5	C	-	7.1	850	10	1	1	-	-	3	3	1	-	4	4	2	2	-	1	8	-	-	-	3.09
40	36.7303	102.9569	2	08		0-N07604	06/14/78	20	35	16.5	-	-	7.2	650	5	1	1	-	-	3	3	1	-	4	4	2	2	-	1	1	-	-	-	5.23
40	36.9000	102.9708	2	08		0-N07608	06/15/78	15	36	25.2	C	-	7.3	1100	6	1	1	-	-	3	3	1	-	4	2	3	2	-	1	2	-	-	-	22.88
40	36.9286	102.9733	2	08		0-N07609	06/15/78	13	36	18.2	-	-	7.1	550	8	1	1	-	-	3	3	1	-	4	2	3	2	-	1	1	-	-	-	15.04
40	36.9958	102.9725	2	07		0-N07611	06/15/78	16	36	30.2	-	-	7.7	850	9	1	1	5	6	3	3	1	3	4	3	3	2	-	1	-	-	-	-	6.99
40	36.9978	102.9886	2	08		0-N07612	06/15/78	16	36	22.5	C	-	7.1	850	5	1	1	-	-	3	3	1	-	4	2	3	2	-	1	2	-	-	-	18.06
40	36.9742	102.9767	2	08		0-N07613	06/15/78	16	36	19.5	-	-	7.1	600	6	1	1	-	-	3	3	1	-	4	3	3	2	-	1	2	-	-	-	11.03
40	36.9658	102.9000	2	08		0-N07617	06/15/78	18	36	21.2	-	-	7.3	460	5	1	1	-	-	3	3	1	-	4	3	3	2	-	1	1	-	-	-	0.97
40	36.9017	102.8961	2	08		0-N07621	06/15/78	19	36	20.8	C	-	7.1	900	5	1	1	-	-	3	3	1	-	4	2	2	2	-	1	3	6	100	90	5.93
40	36.8661	102.8892	2	08		0-N07624	06/15/78	20	36	20.2	C	-	7.4	800	6	1	1	-	-	3	3	1	-	4	3	2	2	-	1	8	-	-	-	3.99
40	36.8344	102.8872	2	07		0-N07625	06/15/78	20	36	26.2	-	-	8.0	750	5	1	1	4	6	3	3	1	3	4	2	2	2	-	1	-	-	-	-	5.47
40	36.7842	102.9069	2	08		0-N07626	06/15/78	20	35	20.8	C	-	7.2	750	9	1	1	-	-	3	3	1	-	4	4	3	2	-	1	2	-	-	-	0.47
40	36.7631	102.9700	2	08		0-N07627	06/16/78	13	38	21.4	C	-	7.1	650	2	1	1	-	-	3	3	1	-	4	3	2	1	-	1	8	-	-	-	4.89
40	36.7647	102.9675	2	07		0-N07628	06/16/78	13	38	26.5	-	-	7.4	900	6	1	1	4	6	3	3	1	3	4	3	2	1	-	1	-	-	-	-	5.23
40	36.8017	102.9214	2	08		0-N07632	06/16/78	15	38	19.5	-	-	7.2	750	5	1	1	-	-	3	3	1	-	4	3	2	1	-	1	1	5	-	-	0.88
40	36.8175	102.8936	2	08		0-N07634	06/16/78	16	37	19.5	C	-	7.2	830	10	1	1	-	-	3	3	1	-	4	3	2	1	-	1	8	-	-	-	4.83
40	36.8531	102.8889	2	08		0-N07636	06/16/78	16	37	17.8	-	-	7.1	650	10	1	1	-	-	3	3	1	-	4	3	2	1	-	1	1	4	-	-	1.17
40	36.8303	102.8014	2	08		0-N07643	06/16/78	18	38	17.8	-	-	6.9	540		1	1	-	-	3	3	1	-	4	3	2	1	-	1	1	5	-	-	5.42
40	36.8086	102.8206	2	08		0-N07644	06/16/78	18	37	16.8	-	-	6.9	600	5	1	1	-	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	8.41
40	36.8225	102.8611	2	08		0-N07647	06/16/78	18	37	20.8	C	-	6.9	1000	6	1	1	-	-	3	3	1	-	4	3	2	1	-	1	3	4	40	-	16.08
40	36.8078	102.8414	2	08		0-N07648	06/16/78	19	36	18.2	-	-	6.8	850	9	1	1	-	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	2.17
40	36.7717	102.7650	2	08		0-N07652	06/16/78	19	36	17.8	-	-	7.5	500	5	1	1	-	-	3	3	1	-	4	4	2	1	-	1	1	4	-	-	3.44
40	36.8556	102.0872	2	08		0-N07656	06/17/78	12	38	18.5	-	-	7.1	440	5	1	1	-	-	3	3	1	-	4	4	2	2	-	1	1	-	-	-	9.59
40	36.8642	102.0592	2	08		0-N07658	06/17/78	12	38	18.2	-	-	7.2	390	6	1	1	-	-	3	3	1	-	4	4	2	2	-	1	1	6	-	-	10.00
40	36.8353	102.0158	2	08		0-N07662	06/17/78	13	38	18.8	-	-	7.2	490	11	1	1	-	-	3	3	1	-	4	3	2	2	-	1	3	6	280	-	18.71*
40	36.8222	102.0497	2	08		0-N07663	06/17/78	13	38	23.5	C	-	7.6	500	8	1	1	-	-	3	3	1	-	4	4	2	2	-	1	8	-	-	-	14.18
40	36.7628	102.0258	2	08		0-N07667	06/17/78	14	38	20.6	C	-	7.1	800	6	1	1	-	-	3	3	1	-	4	3	2	2	-	1	3	-	-	-	20.20*
40	36.7994	102.0822	2	08		0-N07668	06/17/78	14	38	22.2	C	-	7.2	600	8	1	1	-	-	3	3	1	-	4	4	2	2	-	1	3	-	-	-	11.98
40	36.7911	102.1083	2	08		0-N07669	06/17/78	15	38	19.5	C	-	7.2	700	6	1	1	-	-	3	3	1	-	4	4	2	2	-	1	8	-	-	-	7.68
40	36.8053	102.0228	2	08		0-N07670	06/17/78	15	38	23.8	C	-	7.4	580	16	1	1	-	-	3	3	1	-	4	4	2	2	-	1	5	4	-	-	10.71
40	36.8714	102.1633	2	08		0-N07673	06/17/78	16	38	26.2	C	-	7.6	440	11	1	1	-	-	3	3	1	-	4	4	2	2	-	1	8	-	-	-	8.66
40	36.8347	102.1625	2	08		0-N07674	06/17/78	16	38	19.8	-	-	7.4	550	11	1	1	-	-	3	3	1	-	4	3	2	2	-	1	1	-	-	-	7.86
40	36.7917	102.1642	2	08		0-N07676	06/17/78	17	38	19.2	-	-	7.5	600	10	1	1	-	-	3	3	1	-	4	4	2	2	-	1	8	-	-	-	5.87
40	36.7772	102.1308	2	08		0-N07677	06/17/78	17	38	20.5	C	-	7.6	950	13	1	1	-	-	3	3	1	-	4	3	2	2	-	1	3	6	400	-	11.41
40	36.7672	102.2478	2	08		0-N07678	06/17/78	17	36	28.5	C	-	7.8	900	14	1	1	-	-	3	3	1	-	4	4	2	2	-	1	2	-	-	-	6.17
40	36.5481	102.6069	2	08		0-N07679	06/16/78	11	32	21.6	C	-	8.9	380	12	1	6	-	-	1	3	2	-	4	3	2	2	-	3	1	-	-	-	1.75
40	36.5219	102.6108	2	08		0-N07680	06/16/78	11	33	15.9	-	-	7.6	1300	12	1	6	-	-	2	3	1	-	4	3	2	2	-	1	1	-	-	-	16.49
40	36.5186	102.5664	2	08		0-N07681	06/16/78	12	33	19.2	C	-	7.8	650	8	1	6	-	-	3	3	1	-	4	3	2	2	-	1	8	-	-	-	4.17
40	36.5194	102.5261	2	08		0-N07682	06/16/78	12	33	18.2	-	-	7.6	500	8	1	6	-	-	3	3	1	-	4	3	2	2	-	1	1	-	-	-	3.67
40	36.5161	102.5014	2	08		0-N07683	06/16/78	12	33	21.8	C	-	7.6	500	8	1	6	-	-	3	3	1	-	4	3	2	2	-	1	8	-	-	-	8.57
40	36.5228	102.4803	2	08		0-N07684	06/16/78	12	33	23.2	C	-	7.2	280	13	1	6	-	-	2	3	6	-	4	3	2	2	-	1	1	-	-	-	0.33

APPENDIX I-A. (continued). Uranium Concentrations for Water 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)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
40-36.5478-102.4839-2-08-						0-N07695-06/16/78-13-			34-17.8-		-	-	7.5-	500-		9-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									6.03
40-36.5672-102.4903-2-08-						0-N07696-06/16/78-13-			34-18.4-		-	-	7.5-	440-		4-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									4.21
40-36.5772-102.5064-2-08-						0-N07697-06/16/78-13-			34-19.2-		-	-	7.5-	420-		8-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									3.66
40-36.5672-102.5225-2-08-						0-N07698-06/16/78-13-			34-18.2-		-	-	7.2-	445-		6-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									5.16
40-36.5444-102.5369-2-08-						0-N07699-06/16/78-14-			34-20.4-C-		-	-	7.4-	700-		8-1-6-	-	-3-3-1-		-4-3-2-2-		-1-3-									4.38
40-36.5050-102.5481-2-08-						0-N07700-06/16/78-14-			34-17.2-		-	-	7.6-	525-		18-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									6.43
40-36.6486-102.4919-2-08-						0-N07691-06/16/78-15-			35-17.4-		-	-	7.5-	500-		4-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									9.46
40-36.6403-102.4683-2-08-						0-N07693-06/16/78-15-			35-17.2-		-	-	7.5-	500-		4-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									9.74
40-36.6661-102.4794-2-08-						0-N07694-06/16/78-16-			34-24.6-C-		-	-	7.6-	500-		9-1-6-	-	-3-3-1-		-4-3-2-2-		-1-8-									2.24
40-36.5950-102.4697-2-08-						0-N07695-06/16/78-17-			34-17.1-		-	-	7.5-	500-		4-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									2.59
40-36.6156-102.4636-2-08-						0-N07696-06/16/78-17-			34-17.9-		-	-	7.6-	455-		4-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									1.27
40-36.6106-102.4436-2-08-						0-N07697-06/16/78-17-			34-17.6-		-	-	7.6-	450-		3-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									4.15
40-36.5892-102.4456-2-08-						0-N07698-06/16/78-17-			34-17.6-		-	-	7.2-	490-		6-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									3.19
40-36.5811-102.4639-2-08-						0-N07699-06/16/78-18-			34-18.1-		-	-	7.5-	500-		6-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									3.04
40-36.6364-102.4106-2-08-						0-N07702-06/16/78-18-			32-21.4-C-		-	-	7.5-	575-		4-1-6-	-	-3-3-1-		-4-3-2-2-		-1- -									8.21
40-36.6761-102.4344-2-08-						0-N07703-06/16/78-19-			31-18.8-C-		-	-	7.5-	480-		4-1-6-	-	-3-3-1-		-4-3-2-2-		-1-3-							-200-	115-	6.74
40-36.6703-102.4142-2-08-						0-N07704-06/16/78-19-			32-21.6-C-		-	-	7.5-	525-		3-1-6-	-	-3-3-1-		-4-3-2-2-		-1-8-									7.49
40-36.7050-102.4211-2-08-						0-N07705-06/16/78-19-			31-23.8-C-		-	-	7.4-	500-		14-1-6-	-	-3-3-1-		-4-3-2-2-		-1- -									7.49
40-36.7039-102.4461-2-08-						0-N07706-06/16/78-19-			30-19.4-C-		-	-	7.4-	500-		9-1-6-	-	-3-3-1-		-4-3-2-2-		-1-9-									5.36
40-36.8789-102.7611-2-08-						0-N07707-06/17/78-12-			31-20.2-C-		-	-	8.3-	440-		10-1-6-	-	-1-3-1-		-4-3-2-2-		-3-1-									1.79
40-36.8903-102.8242-2-08-						0-N07708-06/17/78-12-			32-16.2-		-	-	7.7-	445-		11-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									7.03
40-36.8839-102.8536-2-07-						0-N07710-06/17/78-12-			32-23.4-C-		-	-	7.8-	430-		12-1-6-4-1-3-3-1-2-4-3-2-2-2-						-3- -									2.20
40-36.9133-102.7814-2-08-						0-N07712-06/17/78-13-			32-22.3-C-		-	-	9.2-	975-		13-1-6-	-	-1-3-1-		-4-3-2-2-		-3-1-									7.26
40-36.9278-102.8275-2-08-						0-N07713-06/17/78-13-			32-17.6-		-	-	7.5-	1175-		10-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									14.76
40-36.9414-102.8134-2-08-						0-N07715-06/17/78-13-			32-17.2-		-	-	7.6-	700-		3-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									6.44
40-36.9936-102.8567-2-08-						0-N07717-06/17/78-14-			32-23.1-C-		-	-	7.6-	525-		6-1-6-	-	-3-3-1-		-4-3-2-2-		-1-8-									3.73
40-36.9667-102.8414-2-08-						0-N07719-06/17/78-14-			32-18.2-		-	-	7.4-	675-		4-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									4.41
40-36.9722-102.7861-2-08-						0-N07721-06/17/78-14-			32-17.4-		-	-	7.6-	430-		14-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									3.45
40-36.9789-102.7600-2-08-						0-N07722-06/17/78-14-			35-22.4-C-		-	-	7.6-	230-		6-1-6-	-	-3-3-1-		-2-2-2-1-		-1-8-									1.44
40-36.9589-102.7458-2-07-						0-N07724-06/17/78-15-			32-25.6-C-		-	-	7.7-	675-		4-1-1-5-6-3-3-1-2-4-3-2-2-2-						-3- -									4.66
40-36.9919-102.6797-2-08-						0-N07727-06/17/78-16-			31-17.1-		-	-	7.7-	525-		8-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									17.76
40-36.9903-102.6361-2-08-						0-N07728-06/17/78-16-			31-15.8-		-	-	7.6-	700-		8-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									35.87*
40-36.6094-102.2650-2-08-						0-N07729-06/15/78-19-			31-18.4-		-	-	7.6-	500-		9-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									4.77
40-36.6183-102.2597-2-08-						0-N07730-06/15/78-19-			31-20.1-		-	-	7.4-	500-		9-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									3.44
40-36.6067-102.3567-2-08-						0-N07731-06/15/78-19-			30-19.2-		-	-	7.6-	525-		6-1-6-	-	-3-3-1-		-4-3-2-2-		-1-1-									3.86
40-36.8917-102.0708-2-08-						0-N07732-06/16/78-11-			30-26.4-C-		-	-	7.6-	390-		9-1-6-	-	-3-3-1-		-4-3-2-1-		-1-3-							-200-		13.25
40-36.9069-102.0292-2-08-						0-N07736-06/16/78-12-			32-19.2-C-		-	-	7.8-	340-		10-1-6-	-	-3-3-1-		-4-3-2-1-		-1-3-							-325-		10.15
40-36.9517-102.0231-2-08-						0-N07737-06/16/78-12-			32-22.4-C-		-	-	7.5-	370-		8-1-6-	-	-3-3-1-		-4-3-2-1-		-1-8-									10.79
40-36.9442-102.0461-2-08-						0-N07738-06/16/78-12-			33-26.1-C-		-	-	7.7-	370-		9-1-6-	-	-3-3-1-		-4-3-2-1-		-1-8-									8.49
40-36.9950-102.0303-2-08-						0-N07740-06/16/78-12-			34-21.4-		-	-	7.4-	650-		9-1-6-	-	-3-3-1-		-4-3-2-1-		-1-1-									15.90
40-36.9794-102.0072-2-08-						0-N07741-06/16/78-13-			35-20.8-C-		-	-	7.6-	500-		9-1-6-	-	-3-3-1-		-4-3-2-1-		-1-3-							-300-		14.20
40-36.9625-102.1164-2-08-						0-N07743-06/16/78-13-			35-20.6-C-		-	-	7.4-	500-		4-1-6-	-	-3-3-1-		-4-3-2-1-		-1-8-									14.80
40-36.9419-102.1083-2-08-						0-N07745-06/16/78-13-			35-19.9-		-	-	7.4-	420-		4-1-6-	-	-3-3-1-		-4-3-2-1-		-1-1-									7.75
40-36.9247-102.1447-2-08-						0-N07747-06/16/78-14-			36-23.6-C-		-	-	7.3-	380-		6-1-6-	-	-3-3-1-		-4-3-2-1-		-1-8-									5.09
40-36.9733-102.1728-2-08-						0-N07748-06/16/78-15-			37-21.4-C-		-	-	7.1-	800-		6-1-6-	-	-3-3-1-		-4-3-2-1-		-1-3-									18.75*
40-36.9944-102.1986-2-08-						0-N07750-06/16/78-15-			38-20.4-		-	-	7.2-	600-		2-1-6-	-	-3-3-1-		-4-3-2-1-		-1-1-							4-		11.79
40-36.9483-102.2494-2-08-						0-N07752-06/16/78-15-			36-19.1-		-	-	7.2-	1200-		6-1-6-	-	-3-3-1-		-4-3-2-1-		-1-1-							4-		17.95
40-36.9217-102.2706-2-08-						0-N07755-06/16/78-15-			36-19.2-		-	-	7.6-	500-		5-1-6-	-	-3-3-1-		-4-3-2-1-		-1-1-							4-		10.46
40-36.9639-102.2378-2-08-						0-N07756-06/16/78-16-			37-19.2-		-	-	7.5-	520-		6-1-6-	-	-3-3-1-		-4-3-2-1-		-1-1-							4-		2.97
40-36.9800-102.2322-2-08-						0-N07758-06/16/78-16-			36-19.8-		-	-	7.5-	600-		4-1-6-	-	-3-3-1-		-4-3-2-1-		-1-1-							4-		9.53
40-36.9054-102.2408-2-08-						0-N07759-06/16/78-16-			36-20.8-		-	-	7.5-	440-		5-1-6-	-	-2-3-1-		-4-3-2-1-		-1-1-									5.23

APPENDIX I-A. (continued). Uranium Concentrations for Water 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)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
40	36.8925	102.1425	2	0	8	0-N07761	06/16/78	17	34	24.5	C	-	7.3	430	5	1	6	-	3	3	1	-	4	3	2	1	-	1	8	-	-	-	3.67
40	36.9078	102.1114	2	0	8	0-N07763	06/16/78	17	34	20.8	-	-	7.4	400	4	1	6	-	3	3	1	-	4	3	2	1	-	1	1	4	-	-	8.59
40	36.9150	102.0639	2	0	8	0-N07764	06/16/78	17	34	20.6	-	-	7.5	430	6	1	6	-	3	3	1	-	4	3	2	1	-	1	3	5	300	-	8.07
40	36.8931	102.2389	2	0	8	0-N07765	06/16/78	18	35	19.6	-	-	7.6	350	11	1	6	-	3	3	1	-	4	3	2	1	-	1	2	3	340	-	7.70
40	36.8933	102.2894	2	0	8	0-N07766	06/16/78	18	34	21.6	C	-	7.6	390	13	1	6	-	3	3	1	-	4	3	2	1	-	1	8	-	-	-	0.97
40	36.9072	102.3528	2	0	8	0-N07770	06/16/78	19	31	19.8	-	-	7.7	600	9	1	6	-	3	3	1	-	4	3	2	1	-	1	1	4	-	-	0.90
40	36.9208	102.3003	2	0	8	0-N07773	06/16/78	20	30	19.1	-	-	7.5	400	9	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	4.72
40	36.9050	102.5461	2	0	8	0-N07775	06/17/78	11	30	18.4	-	-	7.6	700	11	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	140	-	12.44
40	36.8956	102.5867	2	0	8	0-N07779	06/17/78	12	30	19.2	-	-	7.5	1100	9	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	11.40
40	36.9592	102.6092	2	0	8	0-N07781	06/17/78	13	32	19.4	-	-	7.7	270	9	1	6	-	3	3	1	-	4	3	2	1	-	1	1	3	-	-	-	3.64
40	36.9858	102.6164	2	0	8	0-N07782	06/17/78	13	31	19.1	-	-	7.4	400	6	1	6	-	3	3	1	-	4	3	2	1	-	1	1	3	-	-	-	8.71
40	36.9369	102.5450	2	0	8	0-N07785	06/17/78	14	32	17.8	-	-	7.3	700	6	1	6	-	3	3	1	-	4	3	2	1	-	1	1	4	-	-	-	9.02
40	36.9508	102.5339	2	0	8	0-N07786	06/17/78	15	32	19.8	-	-	7.7	600	4	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	4.27
40	36.9792	102.5039	2	0	8	0-N07788	06/17/78	15	32	18.8	-	-	7.5	800	11	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	29.66
40	36.9953	102.4961	2	0	8	0-N07790	06/17/78	15	32	20.4	-	-	7.4	700	4	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	13.96
40	36.9486	102.4642	2	0	8	0-N07792	06/17/78	15	32	18.2	-	-	7.3	600	4	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	20.53*
40	36.9781	102.4414	2	0	8	0-N07794	06/17/78	16	32	18.2	-	-	7.3	350	12	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	9.17
40	36.9819	102.3972	2	0	8	0-N07796	06/17/78	16	32	18.3	-	-	7.3	360	6	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	13.27
40	36.9578	102.3639	2	0	8	0-N07799	06/17/78	17	32	18.6	-	-	7.3	490	4	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	31.17
40	36.9814	102.3461	2	0	8	0-N07800	06/17/78	17	31	19.1	-	-	7.3	600	5	1	6	-	3	3	1	-	4	3	2	1	-	1	1	4	-	-	-	2.27
40	36.9961	102.3067	2	0	8	0-N07802	06/17/78	17	29	22.4	C	-	7.4	430	8	1	6	-	3	3	1	-	4	3	2	1	-	1	3	-	45	-	-	14.44
40	36.9881	102.2658	2	0	8	0-N07803	06/17/78	17	29	19.8	-	-	7.4	470	4	1	6	-	3	3	1	-	4	3	2	1	-	1	1	5	-	-	-	10.54
40	36.9083	102.4164	2	0	8	0-N07806	06/17/78	18	31	16.6	-	-	7.6	600	10	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	5.91
40	36.8922	102.3942	2	0	8	0-N07809	06/17/78	19	29	17.1	-	-	7.8	480	8	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	20.70*
40	36.8781	102.4169	2	0	8	0-N07810	06/17/78	19	28	20.1	-	-	7.7	430	5	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	11.90
40	36.8903	102.4639	2	0	8	0-N07811	06/17/78	20	28	18.8	-	-	7.5	1000	9	1	6	-	3	3	1	-	4	3	2	1	-	1	1	-	-	-	-	16.69
40	36.8933	102.7050	2	0	8	0-N07813	06/18/78	10	34	16.5	-	-	7.0	500	15	1	1	-	3	3	1	-	4	4	2	3	-	1	1	-	-	-	-	7.85
40	36.9031	102.6617	2	0	8	0-N07815	06/18/78	11	34	16.2	-	-	7.1	500	12	1	1	-	3	3	1	-	4	3	2	3	-	1	1	6	-	-	-	12.44
40	36.8231	102.5439	2	0	8	0-N07818	06/18/78	15	30	17.0	-	-	7.4	380	12	1	6	-	3	3	1	-	4	2	2	2	-	1	1	-	-	-	-	2.22
40	36.8050	102.5217	2	0	8	0-N07819	06/18/78	15	30	21.5	C	-	8.0	600	4	1	6	-	3	3	1	-	4	2	1	2	-	1	3	-	-	-	-	11.76
40	36.8386	102.5144	2	0	8	0-N07820	06/18/78	15	30	21.3	C	-	7.7	1000	10	1	6	-	3	3	1	-	4	2	2	2	-	1	2	-	217	-	-	3.68
40	36.8744	102.5408	2	0	8	0-N07824	06/18/78	16	30	21.5	C	-	7.8	1100	6	1	6	-	3	3	1	-	4	2	2	2	-	1	3	-	230	-	-	4.89
40	36.8336	102.5844	2	0	8	0-N07825	06/18/78	17	30	17.2	-	-	7.5	500	7	1	6	-	3	3	1	-	4	2	2	2	-	1	1	-	-	-	-	23.33
40	36.7650	102.5183	2	0	8	0-N07827	06/18/78	17	30	19.0	C	-	7.8	440	12	1	6	-	3	3	1	-	4	2	2	1	2	-	1	3	-	-	-	8.42
40	36.7683	102.3364	2	0	8	0-N07828	06/18/78	10	27	19.6	C	-	7.4	500	8	1	6	-	3	3	1	-	4	3	2	2	-	1	8	-	-	-	-	6.08
40	36.7186	102.4975	2	0	8	0-N07832	06/17/78	18	30	18.4	C	-	7.6	410	7	1	6	-	3	3	1	-	4	3	2	2	-	1	3	-	240	-	-	4.07
40	36.6903	102.4589	2	0	8	0-N07833	06/17/78	18	30	19.8	C	-	7.7	440	13	1	6	-	3	3	1	-	4	3	2	2	-	1	3	-	115	-	-	4.65
40	36.7403	102.4728	2	0	8	0-N07834	06/18/78	18	30	19.6	C	-	7.6	525	9	1	6	-	3	3	1	-	4	3	2	2	-	1	3	-	240	210	-	5.00
40	36.7269	102.3922	2	0	8	0-N07835	06/17/78	18	29	18.2	C	-	7.3	445	6	1	6	-	3	3	1	-	4	3	2	2	-	1	8	-	-	-	-	4.86
40	36.7483	102.4139	2	0	8	0-N07836	06/17/78	19	28	20.0	C	-	7.3	480	10	1	6	-	3	3	1	-	4	3	2	2	-	1	8	-	-	-	-	9.15
40	36.7044	102.6544	2	0	8	0-N07837	06/18/78	10	26	18.1	C	-	7.3	500	11	1	6	-	3	3	1	-	4	2	2	1	2	-	1	3	-	160	-	-	20.35
40	36.6894	102.6353	2	0	8	0-N07838	06/18/78	10	26	20.7	C	-	7.5	500	6	1	6	-	3	3	1	-	4	2	2	1	2	-	1	8	-	-	-	-	4.71
40	36.6611	102.6811	2	0	8	0-N07839	06/18/78	11	26	20.5	-	-	7.5	500	5	1	6	-	3	3	1	-	4	2	2	1	2	-	1	3	-	-	-	-	5.98
40	36.6392	102.6836	2	0	8	0-N07840	06/18/78	11	26	17.0	-	-	7.4	500	5	1	6	-	3	3	1	-	4	3	2	2	2	-	1	1	-	-	-	-	7.00
40	36.6358	102.6664	2	0	8	0-N07842	06/18/78	11	27	16.1	-	-	7.4	500	6	1	6	-	3	3	1	-	4	2	2	2	-	1	1	-	-	-	-	3.93
40	36.6533	102.6322	2	0	8	0-N07843	06/18/78	11	27	16.1	-	-	7.5	500	8	1	6	-	3	3	1	-	4	2	1	2	-	1	8	-	-	-	-	5.84
40	36.6431	102.7331	2	0	8	0-N07844	06/18/78	12	28	20.5	C	-	7.4	550	24	1	6	-	3	3	1	-	4	2	1	2	-	1	8	-	-	-	-	6.00
40	36.6739	102.6978	2	0	8	0-N07845	06/18/78	12	28	19.9	C	-	7.5	500	8	1	6	-	3	3	1	-	4	2	2	2	-	1	8	-	-	-	-	5.64
40	36.6989	102.7139	2	0	8	0-N07847	06/18/78	12	29	17.2	-	-	7.6	500	12	1	6	-	3	3	1	-	4	3	2	1	2	-	1	1	-	-	-	-	5.07
40	36.7181	102.6836	2	0	8	0-N07849	06/18/78	13	28	19.7	-	-	8.2	900	12	1	6	-	3	3	1	-	4	3	2	1	1	-	1	1	-	-	-	-	1.51
40	36.7725	102.6231	2	0	8	0-N07850	06/18/78	13	28	22.5	C	-	7.5	400	7	1	6	-	3	3	1	-	4	2	2	1	1	-	1	4	-	-	-	-	5.93

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
4C-	36.7769-	102.6C5C-2-08-				0-N07851-	06/18/78-	14-	28-	22.2-C-	-	-	7.8-	390-	8-1-6-	-	-3-3-1-	-4-2-1-1-	-1-4-		-200-	-	5.5C								
4C-36.8317-102.6C22-2-08-						0-N07852-	06/18/78-	14-	30-	17.6-	-	-	7.5-	5CC-	22-1-6-	-	-3-3-1-	-4-2-2-2-	-1-1-	-	-	-	14.56								
40-36.7878-102.2467-2-08-						0-NC7854-	06/17/78-	17-	36-	23.6-C-	-	-	7.3-	600-	10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	4.44								
40-36.8067-102.2239-2-08-						0-N07855-	06/17/78-	17-	36-	23.8-C-	-	-	7.3-	7CC-	8-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	8.89								
40-36.8064-102.1931-2-08-						0-N07856-	06/17/78-	17-	36-	22.5-C-	-	-	7.4-	550-	6-1-1-	-	-3-3-1-	-4-4-2-2-	-1-8-	-	-	-	8.09								
4C-36.7772-102.1883-2-08-						C-NC7857-	06/17/78-	18-	36-	22.6-C-	-	-	7.4-	750-	5-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	10.26								
40-36.8356-102.2822-2-08-						0-N07858-	06/17/78-	18-	36-	21.6-C-	-	-	7.2-	500-	9-1-1-	-	-3-3-1-	-4-4-2-2-	-1-8-	-	-	-	8.97								
4C-36.8492-102.1558-2-08-						0-N07859-	06/17/78-	18-	36-	25.0-C-	-	-	7.3-	500-	10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-3-	6-	210-	-	9.13								
40-36.8732-102.1508-2-08-						0-N07860-	06/17/78-	18-	36-	19.8-	-	-	7.2-	470-	11-1-1-	-	-3-3-1-	-4-3-2-2-	-1-3-	5-	300-	-	8.26								
40-36.8203-102.2294-2-08-						0-N07863-	06/17/78-	19-	36-	20.8-C-	-	-	7.3-	550-	6-1-1-	-	-3-3-1-	-4-4-2-2-	-1-8-	-	-	-	9.1C								
40-36.8419-102.6303-2-08-						0-NC7868-	06/18/78-	13-	36-	18.2-	-	-	7.1-	550-	7-1-1-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	4.44								
40-36.8703-102.6367-2-08-						0-N07870-	06/18/78-	13-	36-	17.2-	-	-	7.1-	650-	11-1-1-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	16.53								
40-36.7772-102.6414-2-08-						0-N07871-	06/18/78-	14-	36-	16.5-	-	-	7.1-	440-	10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-3-	5-	230-	210-	6.32								
40-36.7764-102.6508-2-08-						0-N07872-	06/18/78-	14-	36-	18.5-	-	-	6.9-	460-	10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-1-	6-	-	-	6.94								
40-36.7814-102.6344-2-08-						0-N07873-	06/18/78-	14-	36-	17.5-	-	-	6.9-	550-	5-1-1-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	3.12								
40-36.7611-102.7344-2-08-						0-N07876-	06/18/78-	15-	36-	20.6-	-	-	6.9-	47C-	4-1-1-	-	-3-3-1-	-4-3-2-1-	-1-3-	6-	220-	-	4.54								
4C-36.7992-102.7142-2-08-						0-N07878-	06/18/78-	15-	36-	17.6-	-	-	6.9-	465-	9-1-1-	-	-3-3-1-	-4-3-2-2-	-1-1-	5-	-	-	0.43								
40-36.7281-102.1586-2-08-						0-N07879-	06/17/78-	16-	38-	19.5-C-	-	-	7.6-	1100-	12-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	17.43								
40-36.7047-102.1522-2-08-						0-N07880-	06/17/78-	16-	38-	20.0-	-	-	7.9-	420-	4-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	8.08								
40-36.6808-102.1467-2-08-						0-N07884-	06/17/78-	17-	35-	19.5-	-	-	7.4-	320-	6-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	6.17								
40-36.6606-102.1369-2-08-						0-N07886-	06/17/78-	18-	35-	21.0-	-	-	7.7-	230-	10-1-1-	-	-3-3-1-	-4-3-2-2-	-3-1-	-	-	-	6.28								
4C-36.6469-102.2431-2-08-						C-NC7887-	06/17/78-	18-	35-	22.0-C-	-	-	7.5-	320-	6-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	6.28								
40-36.6347-102.3672-2-08-						0-N07888-	06/18/78-	9-	24-	17.5-	-	-	7.4-	51C-	1C-1-1-	-	-3-3-1-	-4-3-2-3-	-3-1-	-	-	-	12.19								
40-36.6608-102.3672-2-08-						0-N07889-	06/18/78-	1C-	27-	18.5-C-	-	-	7.6-	450-	1C-1-1-	-	-3-3-1-	-4-3-2-3-	-1-8-	-	-	-	6.37								
4C-36.7039-102.3553-2-08-						0-N07890-	06/18/78-	1C-	23-	15.5-	-	-	7.8-	450-	12-1-1-	-	-3-3-1-	-4-3-2-3-	-1-1-	-	-	-	3.36								
40-36.7053-102.3217-2-08-						0-N07891-	06/18/78-	1C-	24-	19.8-C-	-	-	7.4-	510-	12-1-1-	-	-3-3-1-	-4-3-2-3-	-1-8-	-	-	-	1C.88								
40-36.7475-102.3378-2-08-						0-N07892-	06/18/78-	11-	24-	20.C-C-	-	-	7.5-	430-	1C-1-1-	-	-3-3-1-	-4-3-2-3-	-1-8-	-	-	-	6.78								
40-36.6894-102.3350-2-08-						0-N07893-	06/18/78-	11-	27-	22.0-C-	-	-	7.8-	470-	15-1-1-	-	-3-3-1-	-4-3-2-3-	-1-8-	-	-	-	8.4C								
40-36.6908-102.3081-2-08-						0-N07894-	06/18/78-	11-	24-	17.5-	-	-	7.8-	490-	6-1-1-	-	-3-3-1-	-4-3-2-3-	-3-1-	-	-	-	29.78*								
40-36.6706-102.2850-2-08-						0-N07895-	06/18/78-	11-	34-	22.6-	-	-	7.6-	620-	9-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	6.49								
40-36.6503-102.2656-2-08-						0-N07896-	06/18/78-	12-	28-	22.5-C-	-	-	7.6-	420-	10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-3-	6-	270-	220-	6.57								
40-36.6325-102.2744-2-08-						0-N07897-	06/18/78-	13-	27-	20.C-C-	-	-	7.4-	440-	1C-1-1-	-	-3-3-1-	-4-3-2-2-	-1-3-	-	-	-	7.69								
4C-36.6481-102.3056-2-08-						0-N07898-	06/18/78-	12-	28-	20.5-C-	-	-	7.8-	470-	1C-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	6.13								
40-36.6592-102.3189-2-08-						0-N07899-	06/18/78-	13-	27-	21.0-C-	-	-	7.8-	350-	12-1-1-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-	7.17								
40-36.6281-102.3197-2-08-						0-N07900-	06/18/78-	13-	28-	21.0-C-	-	-	7.8-	510-	10-1-1-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	8.03								
40-36.6758-102.3439-2-08-						0-N07901-	06/18/78-	14-	28-	21.0-	-	-	7.8-	370-	8-1-1-	-	-3-3-1-	-4-3-2-2-	-1-3-	-170-	-	-	5.49								
40-36.7919-102.3459-2-08-						0-N07902-	06/18/78-	10-	27-	17.8-	-	-	7.3-	600-	8-1-6-	-	-3-3-1-	-4-3-2-2-	-1-2-	-	-	-	6.72								
4C-36.7622-102.2851-2-08-						C-N07905-	06/18/78-	11-	28-	17.4-C-	-	-	7.2-	850-	9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-2-	-294-	-	-	7.16								
40-36.7922-102.2857-2-08-						0-N07906-	06/18/78-	11-	28-	19.6-C-	-	-	7.4-	625-	13-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-	-	-	6.19								
40-36.8051-102.2975-2-08-						0-N07907-	06/18/78-	11-	28-	20.1-C-	-	-	7.4-	460-	13-1-6-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	6.41								
40-36.8353-102.2751-2-08-						0-N07908-	06/18/78-	11-	28-	17.4-	-	-	7.4-	430-	9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-220-	175-		11.19								
40-36.8642-102.3450-2-08-						0-N07909-	06/18/78-	12-	29-	19.2-	-	-	7.4-	420-	8-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	5.9C								
40-36.8575-102.3625-2-08-						0-N07912-	06/18/78-	12-	3C-	19.2-	-	-	7.4-	440-	4-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	7.20								
40-36.8347-102.3833-2-08-						0-N07913-	06/18/78-	13-	30-	22.4-	-	-	7.5-	460-	9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-6-	-	-	-	6.C6								
40-36.8678-102.3842-2-08-						0-N07914-	06/18/78-	13-	30-	18.6-	-	-	7.3-	390-	8-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	17.80*								
40-36.8475-102.4153-2-08-						0-N07915-	06/18/78-	13-	30-	21.6-	-	-	7.4-	445-	10-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-	-	-	9.26								
40-36.8350-102.4578-2-08-						0-N07918-	06/18/78-	14-	30-	19.4-	-	-	7.3-	490-	9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	4.60								
40-36.8619-102.4764-2-08-						0-N07921-	06/18/78-	15-	30-	18.4-	-	-	7.4-	600-	9-1-6-	-	-3-3-1-	-4-3-2-2-	-1-1-	-	-	-	13.19								
40-36.8067-102.4617-2-08-						0-N07924-	06/18/78-	16-	29-	24.8-C-	-	-	7.6-	440-	4-1-6-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	9.74								
40-36.7628-102.3914-2-08-						0-N07925-	06/18/78-	16-	29-	22.4-C-	-	-	7.6-	525-	11-1-6-	-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	10.08								
40-36.7622-102.3561-2-08-						0-N07926-	06/18/78-	16-	29-	21.8-C-	-	-	7.6-	450-	4-1-6-	-	-3-3-1-	-4-3-2-2-	-1-3-	-167-	-		6.25								

APPENDIX I-A. (continued). Uranium Concentrations for Water 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 (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
							DATE	HOUR																									
40-	36.7775-	102.4703-	2-	08-		0-N07227-	06/18/78-	16-	29-	17.8-	C-	-	7.2-	400-		3-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	4-		-274-		-	4.83
40-	36.8211-	102.4719-	2-	08-		0-N07228-	06/18/78-	17-	28-	17.8-	-	-	7.3-	600-		11-	1-	6-	-	-3-	3-	1-	-4-	3-	2-	2-	-1-	3-		-	-	-	17.67*

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APPENDIX I-B

Listings of Field Data and Elemental Concentrations
for Sediment Samples from the Dalhart Quadrangle, New Mexico/Texas/Oklahoma
(Pages 50 through 89)

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 III 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
35-36.8850-103.8797-2-15-						0-N05902-10/07/76-17-			6-		-	-	-	-	-	-3-	-4-	-1-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	1.50
35-36.8759-103.9700-2-15-						0-N05903-10/07/76-16-			-		-	-	-	-	-	-3-	-5-	-5-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	3.40
35-36.8761-103.9800-2-15-						0-N05904-10/07/76-16-			6-		-	-	-	-	-	-3-	-8-	-5-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	3.80
35-36.8850-103.9725-2-15-						0-N05905-10/07/76-17-			7-		-	-	-	-	-	-3-	-8-	-5-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	2.70
35-36.8933-103.9744-2-15-						0-N05906-10/07/76-14-			5-		-	-	-	-	-	-3-	-8-	-5-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	2.90
35-36.8800-103.9200-2-11-						0-N05907-10/07/76-14-			4-	4.2-	-	-	7.5-	480-	-	-3-	-8-	-5-	-7-	-2-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	4.40
35-36.8753-103.9811-2-15-						0-N05908-10/07/76-14-			4-		-	-	-	-	-	-3-	-8-	-5-	-6-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	3.40
35-36.9547-103.9767-2-15-						0-N05909-10/07/76-16-			3-		-	-	-	-	-	-1-	-5-	-5-	-6-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	3.50
35-36.9533-103.9764-2-15-						0-N05910-10/07/76-14-			3-		-	-	-	-	-	-1-	-5-	-5-	-6-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	4.10
35-36.9650-103.9767-2-12-						0-N05911-10/07/76-14-			3-	5.0-	-	-	7.6-	100-	-	-1-	-5-	-6-	-1-	-2-	-3-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	4.60
35-36.9561-103.9925-2-15-						0-N05912-10/07/76-14-			5-		-	-	-	-	-	-1-	-5-	-6-	-6-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	4.00
35-36.9006-103.9997-2-15-						0-N05913-10/07/76-15-			4-		-	-	-	-	-	-1-	-4-	-5-	-6-	-1-	-6-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	2.90
35-36.9219-103.9464-2-15-						0-N05915-10/07/76-13-			-		-	-	-	-	-	-1-	-4-	-5-	-6-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	3.10
35-36.9283-103.9572-2-15-						0-N05916-10/07/76-13-			-		-	-	-	-	-	-1-	-4-	-5-	-4-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	3.00
35-36.9372-103.9900-2-12-						0-N05921-10/07/76-11-			-1-	3.0-	-	-	8.1-	1200-	-	-1-	-4-	-5-	-6-	-2-	-2-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	3.20
35-36.9567-103.9150-2-15-						0-N05922-10/07/76-11-			-1-		-	-	-	-	-	-1-	-4-	-5-	-9-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	2.60
35-36.9699-103.9400-2-15-						0-N05924-10/06/76-19-			5-		-	-	-	-	-	-1-	-3-	-5-	-5-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	3.70
35-36.9761-103.9103-2-15-						0-N05925-10/06/76-18-			5-		-	-	-	-	-	-1-	-3-	-5-	-6-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	2.80
35-36.9664-103.9467-2-15-						0-N05926-10/06/76-17-			5-		-	-	-	-	-	-3-	-8-	-5-	-6-	-1-	-1-	-4-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	3.30
35-36.9625-103.9914-2-15-						0-N05929-10/06/76-15-			5-		-	-	-	-	-	-1-	-1-	-5-	-8-	-1-	-1-	-4-	-3-	-3-	-3-	-3-	-	-	-	-	-	-	2.50
35-36.9197-103.9806-2-15-						0-N05930-10/06/76-15-			5-		-	-	-	-	-	-1-	-3-	-5-	-6-	-1-	-1-	-4-	-3-	-3-	-3-	-3-	-	-	-	-	-	-	3.80
35-36.9117-103.9186-2-15-						0-N05931-10/06/76-15-			7-		-	-	-	-	-	-1-	-4-	-5-	-6-	-1-	-1-	-4-	-3-	-3-	-4-	-3-	-	-	-	-	-	-	2.50
35-36.9019-103.9250-2-15-						0-N05932-10/06/76-15-			6-		-	-	-	-	-	-1-	-3-	-5-	-6-	-1-	-1-	-4-	-3-	-3-	-4-	-3-	-	-	-	-	-	-	2.60
35-36.9028-103.9372-2-15-						0-N05933-10/06/76-15-			7-		-	-	-	-	-	-1-	-3-	-5-	-6-	-1-	-1-	-4-	-3-	-3-	-4-	-3-	-	-	-	-	-	-	2.30
35-36.9406-103.9269-2-15-						0-N05934-10/06/76-15-			9-		-	-	-	-	-	-1-	-3-	-5-	-6-	-1-	-1-	-4-	-3-	-3-	-4-	-3-	-	-	-	-	-	-	2.70
35-36.9108-103.9336-2-12-						0-N05938-10/07/76-15-			5-	3.8-	-	-	6.8-	700-	-	-1-	-2-	-5-	-6-	-3-	-5-	-2-	-1-	-3-	-4-	-3-	-1-	-	-	-	-	-	-	3.40
35-36.9381-103.9344-2-12-						0-N05939-10/07/76-14-			4-		-	-	-	-	-	-1-	-4-	-5-	-4-	-	-	-	-4-	-3-	-3-	-3-	-1-	-	-	-	-	-	-	3.30
35-36.9053-103.9894-2-15-						0-N05942-10/07/76-15-			3-		-	-	-	-	-	-1-	-4-	-4-	-6-	-1-	-	-1-	-3-	-4-	-3-	-3-	-	-	-	-	-	-	2.20
35-36.8431-103.9858-2-15-						0-N05950-10/05/76-13-			17-		-C-	-	-	-	-	-1-	-5-	-4-	-6-	-1-	-2-	-2-	-3-	-3-	-1-	-3-	-	-	-	-	-	-	3.00
35-36.8611-103.9464-2-15-						0-N05953-10/06/76-17-			8-		-	-	-	-	-	-1-	-3-	-4-	-6-	-1-	-2-	-1-	-3-	-4-	-4-	-3-	-	-	-	-	-	-	3.30
35-36.0539-103.6653-2-15-						0-N05980-09/21/76-14-			25-		-C-	-	-	-	-	9-	-1-	-1-	-5-	-1-	-1-	-2-	-4-	-2-	-2-	-2-	-1-	-	-	-	-	-	-	3.61
35-36.0756-103.6792-2-15-						0-N05984-09/23/76-10-			20-		-	-	-	-	-	5-	-1-	-1-	-4-	-1-	-1-	-	-4-	-2-	-2-	-3-	-1-	-	-	-	-	-	-	3.90
35-36.1108-103.7336-2-15-						0-N05988-09/23/76-11-			22-		-	-	-	-	-	7-	-1-	-1-	-	-	-1-	-	-3-	-2-	-2-	-3-	-1-	-	-	-	-	-	-	2.90
35-36.1328-103.7250-2-15-						0-N05989-09/23/76-12-			24-		-	-	-	-	-	5-	-1-	-4-	-1-	-1-	-	-4-	-2-	-1-	-2-	-1-	-1-	-	-	-	-	-	-	3.90
35-36.2151-103.9453-2-15-						0-N06006-09/17/76-15-			24-		-	-	-	-	-	5-	-3-	-8-	-4-	-6-	-1-	-3-	-4-	-3-	-3-	-2-	-1-	-	-	-	-	-	-	3.30
35-36.2239-103.9472-2-15-						0-N06008-09/19/76-16-			23-		-	-	-	-	-	6-	-1-	-6-	-4-	-6-	-1-	-3-	-4-	-2-	-3-	-2-	-1-	-	-	-	-	-	-	3.70
35-36.1892-103.7953-2-15-						0-N06010-09/19/76-18-			10-		-	-	-	-	-	12-	-1-	-6-	-4-	-6-	-1-	-1-	-4-	-3-	-2-	-3-	-1-	-	-	-	-	-	-	4.70
35-36.1456-103.7594-2-15-						0-N06014-09/20/76-13-			22-		-	-	-	-	-	8-	-1-	-5-	-4-	-6-	-1-	-3-	-4-	-3-	-3-	-2-	-1-	-	-	-	-	-	-	3.20
35-36.1472-103.8369-2-15-						0-N06020-09/23/76-11-			25-		-	-	-	-	-	7-	-2-	-8-	-4-	-5-	-1-	-3-	-4-	-3-	-3-	-1-	-1-	-	-	-	-	-	-	2.90
35-36.4611-103.8319-2-15-						0-N06035-09/23/76-19-			16-		-C-	-	-	-	-	12-	-2-	-8-	-4-	-6-	-1-	-3-	-4-	-3-	-3-	-2-	-9-	-	-	-	-	-	-	2.90
35-36.4767-103.7108-2-15-						0-N06041-09/23/76-10-			22-		-	-	-	-	-	10-	-1-	-6-	-4-	-6-	-1-	-3-	-4-	-3-	-3-	-1-	-1-	-	-	-	-	-	-	4.10
35-36.3131-103.6325-2-15-						0-N06045-09/23/76-15-			26-		-	-	-	-	-	6-	-1-	-6-	-4-	-6-	-1-	-3-	-4-	-3-	-2-	-1-	-1-	-	-	-	-	-	-	3.70
35-36.2925-103.6147-2-15-						0-N06047-09/23/76-16-			25-		-	-	-	-	-	8-	-1-	-1-	-4-	-6-	-1-	-3-	-4-	-3-	-3-	-2-	-1-	-	-	-	-	-	-	3.60
35-36.2819-103.5786-2-15-						0-N06050-09/24/76-10-			24-		-	-	-	-	-	13-	-1-	-1-	-4-	-1-	-1-	-3-	-4-	-2-	-3-	-1-	-1-	-	-	-	-	-	-	3.30
35-36.3011-103.7414-2-15-						0-N06052-09/24/76-13-			27-		-	-	-	-	-	6-	-1-	-6-	-4-	-6-	-1-	-3-	-4-	-3-	-2-	-1-	-1-	-	-	-	-	-	-	3.10
35-36.2869-103.5544-2-15-						0-N06058-09/24/76-16-			23-		-	-	-	-	-	5-	-1-	-1-	-6-	-8-	-	-	-	-4-	-4-	-3-	-2-	-1-	-	-	-	-	-	-	2.80
35-36.3044-103.5528-2-15-						0-N06059-09/24/76-17-			23-		-	-	-	-	-	13-	-1-	-2-	-4-	-6-	-1-	-3-	-4-	-3-	-2-	-1-	-1-	-	-	-	-	-	-	3.10
35-36.2861-103.5111-2-15-						0-N06063-09/25/76-14-			26-		-	-	-	-	-	6-	-1-	-1-	-4-	-6-	-1-	-3-	-4-	-2-	-3-	-2-	-1-	-	-	-	-	-	-	3.40
35-36.3950-103.5969-2-15-						0-N06064-09/25/76-16-			19-		-	-	-	-	-	10-	-1-	-1-	-4-	-6-	-1-	-3-	-4-	-3-	-3-	-3-	-3-	-1-	-	-	-	-	-	-	3.40
35-36.3714-103.5169-2-15-						0-N06065-09/25/76-17-			19-		-	-	-	-	-	9-	-1-	-6-	-4-	-6-	-1-	-3-	-4-	-3-	-2-	-4-	-1-	-	-	-	-	-	-	3.20
35-36.4031-103.5144-2-15-						0-N06073-09/25/76-16-			20-		-	-	-	-	-	10-	-1-	-4-	-4-	-6-	-1-	-3-	-4-	-3-	-3-	-3-	-1-	-	-	-	-	-	-	4.80

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
35-36.8850-103.8797-2-15-						0-N05902	-5	9	-5	-10	-20	-15	-5	-10	-15	2	8
35-36.8758-103.9700-2-15-						0-N05903	-5	7	-5	33	-20	39	11	-10	-15	2	29
35-36.8761-103.9800-2-15-						0-N05904	-5	-5	-5	35	-20	-15	13	-10	-15	2	27
35-36.8850-103.9725-2-15-						0-N05905	-5	-5	-5	39	-20	15	10	-10	-15	2	28
35-36.8933-103.9744-2-15-						0-N05906	-5	-5	-5	30	-20	30	11	-10	-15	2	25
35-36.8800-103.9200-2-11-						0-N05907	-5	-5	-5	57	-20	39	19	-10	-15	3	25
35-36.9753-103.8811-2-15-						0-N05908	-5	5	-5	43	-20	43	13	-10	-15	3	25
35-36.9547-103.8767-2-15-						0-N05909	-5	-5	-5	30	-20	15	12	-10	-15	2	32
35-36.9592-103.8764-2-15-						0-N05910	-5	-5	-5	32	-20	24	12	-10	-15	3	36
35-36.9650-103.8767-2-12-						0-N05911	-5	5	-5	36	-20	39	7	-10	-15	3	38
35-36.9661-103.8925-2-15-						0-N05912	-5	-5	-5	38	-20	-15	9	-10	-15	2	20
35-36.9006-103.5997-2-15-						0-N05913	-5	5	-5	31	-20	-15	9	-10	-15	3	32
35-36.9219-103.5464-2-15-						0-N05915	-5	5	-5	31	-20	-15	8	-10	-15	2	15
35-36.9283-103.5572-2-15-						0-N05916	-5	-5	-5	32	-20	34	11	-10	-15	3	38
35-36.9372-103.5800-2-12-						0-N05921	-5	-5	-5	31	-20	16	9	-10	-15	2	21
35-36.9567-103.6150-2-15-						0-N05922	-5	-5	-5	33	-20	-15	9	-10	21	2	19
35-36.9689-103.2400-2-15-						0-N05924	-5	-5	-5	27	-20	15	10	-10	-15	3	39
35-36.9761-103.2103-2-15-						0-N05925	-5	6	-5	37	-20	-15	12	-10	-15	2	17
35-36.9664-103.1467-2-15-						0-N05926	-5	-5	-5	28	-20	-15	11	-10	-15	3	19
35-36.9625-103.1914-2-15-						0-N05929	-5	-5	-5	35	-20	-15	-5	-10	-15	3	15
35-36.9197-103.1806-2-15-						0-N05930	-5	-5	-5	44	-20	-15	15	-10	-15	2	29
35-36.9117-103.2196-2-15-						0-N05931	-5	-5	-5	22	-20	-15	12	-10	-15	2	18
35-36.9019-103.2250-2-15-						0-N05932	-5	5	-5	17	-20	-15	8	-10	-15	2	19
35-36.9028-103.2372-2-15-						0-N05933	-5	-5	-5	29	-20	-15	7	-10	-15	2	18
35-36.9406-103.2269-2-15-						0-N05934	-5	-5	-5	27	-20	-15	8	-10	-15	2	27
35-36.9108-103.4336-2-12-						0-N05938	-5	-5	-5	32	-20	23	8	-10	-15	3	23
35-36.9381-103.4344-2-12-						0-N05939	-5	-5	-5	29	-20	15	8	-10	-15	2	24
35-36.9053-103.4894-2-15-						0-N05942	-5	11	-5	35	-20	-15	9	-10	-15	2	14
35-36.8431-103.3858-2-15-						0-N05950	-5	7	-5	23	-20	28	-5	-10	-15	3	24
35-36.8611-103.4464-2-15-						0-N05958	-5	7	-5	23	-20	18	6	-10	-15	2	28
35-36.0539-103.6653-2-15-						0-N05980	-5	-5	-5	22	-20	-15	-5	-10	-15	3	40
35-36.0756-103.6792-2-15-						0-N05984	-5	0	-5	29	-20	13	5	-10	-15	2	34
35-36.1108-103.7336-2-15-						0-N05988	-5	0	-5	28	-20	-15	11	-10	-15	2	30
35-36.1328-103.7250-2-15-						0-N05990	-5	11	-5	30	-20	30	10	-10	16	3	35
35-36.2161-103.9553-2-15-						0-N06006	-5	5	-5	19	-20	22	7	-10	-15	3	46
35-36.2239-103.9472-2-15-						0-N06009	-5	-5	-5	17	-20	-15	-5	-10	-15	2	34
35-36.1892-103.7953-2-15-						0-N06010	-5	-5	-5	23	-20	-15	-5	-10	-15	1	28
35-36.1456-103.7594-2-15-						0-N06014	-5	9	-5	33	-20	21	6	-10	-15	3	46
35-36.1472-103.8369-2-15-						0-N06020	-5	-5	-5	34	-20	16	12	-10	-15	2	36
35-36.4611-103.6319-2-15-						0-N06035	-5	7	-5	29	-20	19	11	-10	-15	2	39
35-36.4767-103.7108-2-15-						0-N06041	-5	7	-5	27	-20	-15	8	-10	-15	2	31
35-36.3131-103.6325-2-15-						0-N06045	-5	9	-5	26	-20	22	13	-10	-15	2	36
35-36.2925-103.6147-2-15-						0-N06047	-5	-5	-5	22	-20	24	8	-10	-15	2	31
35-36.2819-103.5786-2-15-						0-N06050	-5	6	-5	22	-20	-15	-5	-10	-15	2	21
35-36.3011-103.7414-2-15-						0-N06052	-5	8	-5	32	-20	-15	13	-10	-15	3	31
35-36.2869-103.5544-2-11-						0-N06058	-5	5	-5	22	-20	-15	-5	-10	-15	2	26
35-36.3044-103.5528-2-15-						0-N06059	-5	-5	-5	19	-20	18	8	-10	-15	3	43
35-36.2861-103.5111-2-15-						0-N06063	-5	7	-5	32	-20	-15	-5	-10	-15	3	36
35-36.3950-103.5969-2-15-						0-N06064	-5	10	-5	20	-20	21	7	-10	-15	3	28
35-36.3714-103.6169-2-15-						0-N06066	-5	6	-5	26	-20	-15	6	-10	-15	2	26
35-36.4031-103.5144-2-15-						0-N06073	-5	6	-5	25	-20	-15	8	-10	-15	2	14

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
35-36.8850-103.8797-2-15-						0-N05902	26550	-0.04	383	75?5	41	-37	2.5	21	1.9	3	0.8	10160	11.9	9108	16	0.3
35-36.8758-103.9700-2-15-						0-N05903	58290	-0.07	635	84790	72	-76	13.8	77	4.5	5	1.3	33190	7.6	14430	32	0.4
35-36.8761-103.9800-2-15-						0-N05904	62740	-0.07	412	73540	60	-79	12.3	62	5.2	5	1.2	30670	6.1	16950	33	0.3
35-36.8350-103.9725-2-15-						0-N05905	53650	-0.07	442	106800	72	-87	11.6	56	3.3	5	1.4	26760	6.2	16370	33	0.4
35-36.8933-103.9744-2-15-						0-N05906	52290	-0.09	534	87910	76	-83	17.6	91	5.6	5	1.1	37430	7.9	14180	40	0.5
35-36.8300-103.9200-2-11-						0-N05907	62980	-0.07	239	103400	50	-67	10.1	64	5.3	5	1.1	30320	5.9	14140	31	0.4
35-36.8753-103.3811-2-15-						0-N05908	57390	-0.07	535	13900	103	-82	14.1	69	3.6	7	1.9	32760	9.8	19540	47	0.5
35-36.9347-103.8767-2-15-						0-N05909	61460	-0.08	574	37040	92	-78	10.1	65	3.9	6	1.5	29800	10.6	15140	37	0.5
35-36.9392-103.8764-2-15-						0-N05910	59270	-0.09	530	90520	84	-70	16.8	99	4.8	5	1.6	40310	8.1	14480	42	0.5
35-36.9350-103.8767-2-12-						0-N05911	57490	-0.07	449	60680	90	-71	10.3	65	6.3	5	1.4	32910	8.3	17660	37	0.5
35-36.9361-103.8925-2-15-						0-N05912	54250	-0.07	548	109100	65	-86	13.0	75	3.7	5	1.3	30590	6.2	13200	32	0.4
35-36.9306-103.5997-2-15-						0-N05913	53630	-0.06	578	24730	72	-63	5.8	33	3.4	5	1.2	17700	8.9	15280	30	0.4
35-36.9219-103.5464-2-15-						0-N05915	41330	-0.04	1117	35420	55	-51	4.8	24	3.5	4	0.7	14980	10.7	16400	26	0.4
35-36.9283-103.5772-2-15-						0-N05916	56160	-0.07	644	18660	88	-78	13.7	76	4.2	6	1.7	34580	11.5	18630	40	0.5
35-36.9372-103.5800-2-12-						0-N05921	49801	-0.06	556	35190	59	-68	6.9	36	2.7	5	1.1	18430	10.6	16850	29	0.4
35-36.9367-103.6150-2-15-						0-N05922	49159	-0.04	543	34410	68	-65	5.6	36	2.7	5	1.2	18430	8.7	15700	30	0.5
35-36.9689-103.2400-2-15-						0-N05924	68490	-0.10	605	36470	89	-73	12.3	62	5.5	6	1.8	33460	7.7	21380	41	0.4
35-36.9761-103.2103-2-15-						0-N05925	45960	-0.05	532	31370	53	-53	6.3	34	2.9	4	1.2	17640	8.2	15780	30	0.4
35-36.9664-103.1467-2-15-						0-N05926	52640	-0.06	563	16010	62	-67	7.2	43	2.9	5	1.3	20370	9.9	17030	29	0.4
35-36.9925-103.1914-2-15-						0-N05929	46110	-0.06	505	12540	54	-43	4.8	25	3.0	4	1.0	15090	6.7	15290	24	0.4
35-36.9797-103.1806-2-15-						0-N05930	59329	-0.08	611	37190	83	-62	8.6	48	4.2	6	1.8	25880	11.1	19740	45	0.5
35-36.9717-103.2186-2-15-						0-N05931	44250	-0.05	534	15100	54	-60	5.1	28	3.7	4	1.0	16310	9.2	16090	22	0.4
35-36.9819-103.2250-2-15-						0-N05932	45690	-0.05	442	8551	57	-50	6.3	27	2.8	5	1.1	16060	7.6	12720	26	0.4
35-36.9828-103.2372-2-15-						0-N05933	33790	-0.05	479	14960	54	-54	4.3	28	2.8	4	1.1	13080	6.9	14540	21	0.4
35-36.9406-103.2269-2-15-						0-N05934	52170	-0.07	570	27000	68	-52	7.4	36	4.3	5	1.4	21040	8.2	16660	32	0.5
35-36.9108-103.4336-2-12-						0-N05938	56470	-0.06	636	27250	72	-74	8.0	39	4.1	5	1.5	21360	7.4	15990	32	0.4
35-36.9381-103.4344-2-12-						0-N05939	51470	-0.06	428	42240	57	-70	5.9	36	3.6	5	1.1	18280	7.5	17220	27	0.4
35-36.9053-103.4894-2-15-						0-N05942	38720	-0.05	525	20660	54	-49	5.6	27	2.5	3	1.2	15700	10.9	14750	27	0.4
35-36.8431-103.3858-2-15-						0-N05950	44440	-0.06	272	5327	74	-52	7.2	39	3.7	5	1.1	22620	13.0	11650	34	0.5
35-36.8411-103.4464-2-15-						0-N05953	50780	-0.05	454	38460	45	-68	5.1	27	3.0	4	0.7	16720	7.0	18110	24	0.4
35-36.0539-103.6553-2-15-						0-N05980	50500	-0.04	530	20490	63	-60	6.1	30	3 3	6	1.3	17770	7.4	15730	30	0.4
35-36.0756-103.6792-2-15-						0-N05984	46300	-0.05	935	21490	57	-63	4.7	31	2.2	5	1.3	14210	13.5	16720	26	0.4
35-36.1108-103.7336-2-15-						0-N05988	44390	-0.06	328	5625	70	-47	8.9	36	3.7	5	1.2	15490	13.2	10050	34	0.5
35-36.1328-103.7250-2-15-						0-N05989	58060	-0.07	427	9954	93	99	9.6	60	4.6	7	1.8	31690	17.4	19770	39	0.7
35-36.2161-103.9653-2-15-						0-N06014	56700	-0.09	587	8659	92	-75	13.7	76	5.4	6	1.9	37800	15.8	19060	51	0.6
35-36.2239-103.8472-2-15-						0-N06009	47690	-0.06	473	29900	62	-76	7.3	48	2.8	5	1.3	23680	17.9	15840	27	0.6
35-36.1892-103.7953-2-15-						0-N06010	38090	-0.06	511	47950	73	-63	6.2	61	2.4	5	1.5	19720	38.0	13110	27	0.7
35-36.1456-103.7594-2-15-						0-N06014	52890	-0.04	530	31060	63	-63	7.5	56	4.2	6	1.3	21890	8.5	16000	31	0.4
35-36.1672-103.8369-2-15-						0-N06020	51410	-0.08	663	9059	99	-80	15.7	79	5.1	6	1.9	37320	15.1	22650	46	0.7
35-36.4611-103.6319-2-15-						0-N06036	59200	-0.08	516	40170	98	-75	15.9	93	4.7	6	2.0	37010	15.5	18890	43	0.7
35-36.4767-103.7108-2-15-						0-N06041	49080	-0.06	376	47410	80	-74	7.4	44	2.2	6	1.6	19660	21.2	16170	34	0.7
35-36.3131-103.6325-2-15-						0-N06045	58420	-0.06	571	16380	76	-76	8.2	52	3.3	6	1.5	25380	18.6	21130	41	0.6
35-36.2525-103.6147-2-15-						0-N06047	45760	-0.06	464	9660	73	-57	4.3	51	2.6	5	1.1	15540	23.9	14660	28	0.6
35-36.2819-103.5786-2-15-						0-N06050	39490	-0.07	400	3548	75	55	6.9	44	2.9	5	1.4	20710	24.9	11060	37	0.6
35-36.3011-103.7414-2-15-						0-N06052	53490	-0.08	568	30530	87	-65	12.2	80	4.2	6	1.8	34620	18.2	19460	43	0.7
35-36.2869-103.5544-2-11-						0-N06058	39290	-0.07	465	27700	59	174	4.2	37	2.2	4	1.0	17400	13.5	11990	28	0.4
35-36.3044-103.5528-2-15-						0-N06059	62760	-0.09	598	4857	81	-65	10.2	60	5.8	6	1.7	31880	13.9	15000	38	0.6
35-36.2861-103.5111-2-15-						0-N06063	55540	-0.08	513	18590	96	-58	11.8	70	5.4	5	1.8	32600	22.6	16590	49	0.7
35-36.3550-103.5960-2-15-						0-N06064	53900	-0.07	513	13110	83	-71	7.5	47	3.1	6	1.5	21610	15.8	16030	34	0.5
35-36.3714-103.5160-2-15-						0-N06066	53340	-0.08	579	25510	87	-75	11.5	54	4.2	6	1.9	32270	20.6	19250	37	0.6
35-36.4031-103.5144-2-15-						0-N06073	40990	-0.06	550	29330	76	-80	6.0	58	-1.2	6	1.6	25910	30.2	17090	31	0.9

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
35-36.8850-103.8797-2-15-						0-N05902	5516	137	2536	-14	-1	3.6	2.6	-103	-1	1	5.6	1552	21	2.4		0.268
35-36.8758-103.9700-2-15-						0-N05903	18720	554	7137	74	-2	9.8	5.5	-266	-1	-1	10.1	4012	114	3.7	143	0.337
35-36.8761-103.9800-2-15-						0-N05904	15500	445	6040	68	-2	9.5	5.3	-230	-1	-1	11.3	4279	115	3.8	119	0.336
35-36.8950-103.9725-2-15-						0-N05905	14070	642	6730	-24	-2	9.1	6.6	-252	-1	-1	10.6	3163	119	3.5	101	0.255
35-36.8933-103.9744-2-15-						0-N05906	17790	651	6533	87	-2	11.3	6.8	-293	-1	-1	12.1	3926	103	4.2	119	0.240
35-36.8800-103.9200-2-11-						0-N05907	19020	293	4033	66	-2	9.6	5.2	527	-1	-1	10.6	3778	128	-1.3	156	0.415
35-36.8753-103.8811-2-15-						0-N05908	15750	670	7710	53	-2	10.9	8.2	-269	-1	-1	14.4	5084	90	5.1	98	0.236
35-36.9547-103.8747-2-15-						0-N05909	13770	465	7106	-25	-2	9.4	7.5	-226	-1	-1	12.5	4359	95	4.2	-23	0.280
35-36.9592-103.8764-2-15-						0-N05910	18550	472	5217	55	-2	12.5	7.6	-248	-1	-1	15.2	4029	107	3.4	147	0.270
35-36.9650-103.8767-2-12-						0-N05911	15120	392	4450	70	-2	10.4	6.4	-218	-1	-1	14.1	4131	98	2.6	59	0.326
35-36.9661-103.8925-2-15-						0-N05912	14650	474	6620	71	-2	9.4	5.9	-243	-1	-1	8.5	4073	121	3.1	77	0.471
35-36.9006-103.5997-2-15-						0-N05913	15160	365	4950	37	-2	6.9	5.5	-139	-1	-1	10.0	2668	52	4.0	-37	0.290
35-36.9219-103.5464-2-15-						0-N05915	12930	315	4231	48	-1	5.9	4.2	-182	-1	1	8.5	1874	36	2.8	-58	0.365
35-36.9283-103.5572-2-15-						0-N05916	15710	570	6034	70	-2	11.1	6.5	-243	-1	-1	13.3	4204	87	5.4	92	0.226
35-36.9372-103.5800-2-12-						0-N05921	18360	402	5802	58	-1	6.9	5.8	-203	-1	-1	9.5	3246	49	3.3	51	0.337
35-36.9567-103.6150-2-15-						0-N05922	12130	347	5831	50	-1	6.4	5.6	-182	-1	-1	9.7	2671	50	2.9	63	0.268
35-36.9689-103.2400-2-15-						0-N05924	21640	533	5251	96	-2	11.9	8.4	-286	-1	-1	15.2	3698	72	6.2	93	0.243
35-36.9761-103.2103-2-15-						0-N05925	12100	361	4479	41	-1	6.3	4.5	-205	-1	-1	7.6	2808	48	3.7	48	0.368
35-36.9664-103.1467-2-15-						0-N05926	13920	410	5756	58	-1	7.0	5.4	-204	-1	-1	10.2	3357	60	3.0	-80	0.324
35-36.9625-103.1914-2-15-						0-N05929	10840	304	3379	37	-1	5.5	4.7	-173	-1	-1	8.8	2443	45	2.9	-61	0.284
35-36.9197-103.1806-2-15-						0-N05930	15600	425	5375	90	2	9.7	7.3	-227	-1	-1	13.8	3778	59	6.2	98	0.275
35-36.9117-103.2185-2-15-						0-N05931	10000	300	5067	58	-1	5.8	4.2	-176	-1		8.1	2458	47	3.5	41	0.309
35-36.9019-103.2250-2-15-						0-N05932	7345	313	3717	47	-1	6.0	4.9	-165	-1	-1	9.9	2714	43	2.7	44	0.263
35-36.9028-103.2372-2-15-						0-N05933	9525	280	4270	50	-1	4.8	4.1	292	-1	-1	6.9	2276	37	2.9	62	0.333
35-36.9406-103.2269-2-15-						0-N05934	10420	309	3917	60	-2	7.9	5.8	-191	-1	-1	10.8	2239	48	4.1	56	0.250
35-36.9108-103.4336-2-12-						0-N05938	16180	379	6231	77	-2	7.8	5.8	533	-1	-1	11.6	3052	55	3.4	-41	0.293
35-36.9381-103.4344-2-12-						0-N05939	23530	377	6267	87	-1	7.1	5.8	628	-1	-1	9.8	3236	57	3.5	68	0.337
35-36.9053-103.4894-2-15-						0-N05942	14790	309	4100	61	-1	5.0	4.7	513	-1	-1	7.9	1979	37	3.4	-28	0.278
35-36.8431-103.3858-2-15-						0-N05950	6546	329	3607	-19	-1	5.9	5.4	-208	-1	-1	10.1	3061	54	3.9	55	0.297
35-36.8611-103.4464-2-15-						0-N05958	19190	403	5319	70	-1	6.1	4.3	-198	-1	1	8.2	2685	41	3.0	89	0.402
35-36.0539-103.6653-2-15-						0-N05980	14370	350	6206	54	-1	6.9	5.1	-207	-1	-1	8.7	3025	47	3.6	-52	0.415
35-36.0756-103.6792-2-15-						0-N05984	11590	314	6642	58	-1	5.4	4.2	-166	-1	-1	7.9	2572	36	4.1	38	0.494
35-36.1108-103.7336-2-15-						0-N05988	5452	205	4504	-21	-1	6.7	5.6	-165	-1	-1	11.6	3237	48	4.3	64	0.250
35-36.1328-103.7250-2-15-						0-N05989	11930	416	8956	62	-2	10.1	7.0	-230	-1	-1	14.7	5050	86	4.8	146	0.265
35-36.2161-103.9653-2-15-						0-N06004	11560	552	8943	90	-2	12.6	8.1	-261	-1	-1	15.1	4882	88	4.6	129	0.219
35-36.2239-103.9472-2-15-						0-N06008	8603	443	8451	52	-1	7.1	4.9	-212	-1	-1	11.2	4315	60	5.0	67	0.330
35-36.1892-103.7953-2-15-						0-N06010	9017	335	5793	40	-1	5.8	5.1	371	2	-1	10.3	3606	61	5.9	37	0.456
35-36.1456-103.7594-2-15-						0-N06014	10510	304	4922	-23	-2	8.3	5.4	-182	-1	-1	11.8	3828	80	3.7	105	0.271
35-36.1472-103.8369-2-15-						0-N06032	10750	540	10770	92	-2	12.3	6.9	-283	-1	-1	13.2	4562	82	6.0	122	0.220
35-36.4611-103.5319-2-15-						0-N06035	13930	509	8410	92	-2	12.4	7.4	-262	-1	-1	14.5	4319	76	5.9	95	0.200
35-36.4767-103.7109-2-15-						0-N06041	10210	357	8534	61	-1	5.4	7.0	-190	-1	-1	12.8	3813	71	5.0	58	0.320
35-36.3131-103.6325-2-15-						0-N06045	9914	423	8770	71	2	9.4	7.0	-204	-1	-1	13.4	3951	75	3.9	104	0.276
35-36.2925-103.6147-2-15-						0-N06047	9134	170	6204	60	-1	5.4	5.2	-143	-1	-1	11.2	3637	58	4.5		0.321
35-36.2919-103.5786-2-15-						0-N06050	3766	264	5435	59	-2	7.2	6.3	-148	-1	-1	12.5	3356	45	6.2	56	0.264
35-36.3011-103.7414-2-15-						0-N06052	14530	422	7545	122	-2	10.7	7.1	-225	-1	-1	14.6	4119	84	4.9	108	0.212
35-36.2869-103.5544-2-11-						0-N06058	9720	372	5603	-21	-2	4.9	4.7	-207	-1	-1	8.7	2354	48	3.6	50	0.322
35-36.3044-103.5528-2-15-						0-N06059	10970	306	6430	107	-2	10.8	7.1	-173	-1	-1	14.5	3341	73	4.3	98	0.214
35-36.2861-103.5111-2-15-						0-N06063	9335	245	6556	71	-2	11.4	7.1	-197	-1	-1	16.6	3578	67	6.9	109	0.205
35-36.3950-103.5969-2-15-						0-N06064	9693	300	7544	45	-2	7.5	6.3	-197	-1	-1	12.3	4071	62	3.9	-10	0.276
35-36.3714-103.6169-2-15-						0-N06066	8045	408	8194	85	-2	9.8	8.0	-200	-1	-1	14.9	3444	67	5.9	92	0.215
35-36.4031-103.5144-2-15-						0-N06072	5103	594	10440	41	-1	6.7	6.7	-219	1	-1	11.7	6001	67	7.5	45	0.410

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
35-36.4633-103.6233-2-15-						0-N06375-09/26/76-14-	11-		-	-	-	-	-	-	-	7-3-3-4-6-	-1-	-3-4-4-3-3-3-	-1-	-	-	-	-	-	2.80
35-36.0400-103.9428-2-12-						0-N06122-09/20/76-15-	19-19.?		-	-	-	-	7.0-	380-		-1-1-5-9-3-2-1-2-6-2-3-2-	-1-	-	-	-	-	3.30
35-36.6703-103.7991-2-15-						0-N06145-09/24/76-14-	24-		-	-	-	-	-	-		-3-7-4-7-	-1-	- -4-3-3-2-	-1-1-	-	-	-	-	2.80
35-36.6925-103.7992-2-15-						0-N06152-09/24/76-17-	21-		-	-	-	-	-	-		-1-1-4-7-	-1-	-2-4-3-3-3-	-1-1-	-	-	-	-	3.30
35-36.0183-103.4278-2-11-						0-N06207-09/24/76-14-	29-22.0-		-	-	-	-	8.5-	500-		9-1-1-5-6-3-2-2-	-4-4-3-1-	-3-	-	-	-	-	2.40
35-36.0469-103.4167-2-11-						0-N06209-09/24/76-15-	29-22.8-		-	-	-	-	8.0-	400-		4-1-1-5-7-2-2-3-	-4-4-3-1-	-3-	-	-	-	-	2.50
35-36.1194-103.2850-2-11-						0-N06212-09/24/76-13-	20-20.1-		-	-	-	-	8.3-	900-		3-1-4-5-4-2-2-3-	-4-2-2-1-	-3-	-	-	-	-	2.90
35-36.0656-103.7603-2-12-						0-N06220-09/21/76-18-	22-21.?		-	-	-	-	8.2-	490-		-1-1-4-1-3-2-2-2-3-2-4-3-	-1-	-	-	-	-	-	3.50
35-36.2244-103.4619-2-15-						0-N06243-09/23/76-17-	27-		-0-	-	-	-	-	-		-1-1-7-7-	-1-	-2-4-3-3-1-	-	-	-	-	-	3.20
35-35.2247-103.4181-2-11-						0-N06245-09/23/76-19-	24-17.9-		-	-	-	-	8.0-	495-		-1-1-6-7-1-2-2-	-4-3-3-1-	-1-	-	-	-	-	4.10
35-36.2172-103.3953-2-11-						0-N06246-09/23/76-18-	24-		-	-	-	-	-	-		-1-1-5-8-	-1-	- -4-3-3-1-	-1-1-	-	-	-	-	3.30
35-36.1653-103.3683-2-11-						0-N06250-09/25/76-18-	19-18.?		-	-	-	-	7.9-	505-		-1-1-5-7-2-2-3-	-4-3-3-3-	-1-	-	-	-	-	4.20
35-36.1303-103.3505-2-11-						0-N06251-09/25/76-11-	19-13.?		-	-	-	-	7.0-	410-		-1-1-4-1-1-2-1-	-4-3-2-3-	-1-	-	-	-	-	3.00
35-36.1014-103.5722-2-12-						0-N06260-09/24/76-13-	25-19.0-		-	-	-	-	6.9-	2200-		6-1-6-5-6-1-2-2-2-3-3-2-1-	-1-	-	-	-	-	-	3.30
35-36.1656-103.5469-2-15-						0-N06274-09/25/76- 9-	21-		-	-	-	-	-	-		2-1-6-5-5-5-	-1-	-2-3-2-3-2-	-	-	-	-	-	3.80
35-36.3817-103.3642-2-15-						0-N06282-09/29/76-13-	24-		-	-	-	-	-	-		-1-1-4-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-	0.90
35-36.1364-103.0785-2-15-						0-N06311-09/26/76-14-	19-		-	-	-	-	-	-		-1-1-5-1-	-1-	- -4-3-1-3-	-1-	-	-	-	-	2.50
35-36.0403-103.1075-2-15-						0-N06329-10/02/76-15-	19-		-	-	-	-	-	-		-1-1-5-1-	-1-	-2-4-2-3-3-	-3-	-	-	-	-	2.50
48-36.3614-103.0294-2-15-						0-N06339-10/03/76-12-	26-		-0-	-	-	-	-	-		-1-1-5-2-	-1-	-3-4-2-2-1-	-9-	-	-	-	-	2.60
35-36.6211-103.6847-2-15-						0-N06345-09/28/76-14-	14-		-0-	-	-	-	-	-		-1-1-5-6-	-1-	- -4-2-3-3-	-1-	-	-	-	-	3.30
35-36.5836-103.6353-2-15-						0-N06346-09/28/76-15-	14-		-0-	-	-	-	-	-		-1-1-5-6-	-1-	- -4-2-3-3-	-1-	-	-	-	-	3.00
35-36.5417-103.9544-2-15-						0-N06348-09/27/76-10-	14-		-	-	-	-	-	-		-1-1-5-7-	-1-	-2-4-2-3-2-	-1-	-	-	-	-	3.30
35-36.5811-103.6691-2-15-						0-N06354-09/29/76- -	21-		-	-	-	-	-	-		-1-1-5-5-	-1-	-2-4-2-2-1-	-1-1-	-	-	-	-	3.00
35-36.5256-103.6283-2-15-						0-N06360-09/30/76-13-	22-		-	-	-	-	-	-		-1-1-5-7-	-1-	-2-4-2-3-1-	-1-1-	-	-	-	-	3.20
35-36.7350-103.6969-2-11-						0-N06375-10/03/76-11-	21-		-	-	-	-	-	-		8-1-2-5-6-	- - -	-2-3-2-2-	-1-	-	-	-	-	2.90
35-36.9200-103.8517-2-15-						0-N06394-10/07/76-12-	-		-	-	-	-	-	-		10-1-2-4-6-	-1-	- -1-3-3-3-	-1-1-	-	-	-	-	3.10
35-36.9961-103.8742-2-15-						0-N06395-10/07/76-14-	1-		-	-	-	-	-	-		12-1-2-5-6-	-1-	- -4-3-3-3-	-1-1-	-	-	-	-	5.10
35-36.9664-103.8402-2-15-						0-N06396-10/07/76-14-	3-		-	-	-	-	-	-		9-1-2-4-6-	-1-	- -4-3-3-3-	-1-1-	-	-	-	-	3.60
35-36.9394-103.8725-2-15-						0-N06397-10/07/76-14-	3-		-	-	-	-	-	-		9-1-2-4-6-	-1-	- -1-4-3-3-	-1-1-	-	-	-	-	5.00
35-36.9000-103.8585-2-15-						0-N06398-10/07/76-14-	3-		-	-	-	-	-	-		7-3-8-5-6-	-1-	- -1-3-3-3-	-1-1-	-	-	-	-	4.10
35-36.1425-103.6450-2-15-						0-N06399-09/22/76-14-	27-		-0-	-	-	-	-	-		1-1-1-5-1-	-1-	- -1-3-3-2-	-1-1-	-	-	-	-	2.90
35-36.1506-103.6561-2-15-						0-N06401-09/22/76-15-	25-		-	-	-	-	-	-		5-1-1-	- -	-1- -2-2-2-2-2-	-1-1-	-	-	-	-	2.90
35-36.1597-103.6306-2-11-						0-N06402-09/22/76-10-	24-13.0-		-	-	-	-	8.8-	230-		11-1-1-	- -1-2-2-	-2-3-2-2-	-1-1-	-	-	-	-	3.00
35-36.4861-103.2092-2-15-						0-N06396-10/02/76-18-	18-		-0-	-	-	-	-	-		-3-8-5-6-	-1-	-2-4-3-2-3-	-1-1-	-	-	-	-	3.10
35-36.4944-103.2085-2-11-						0-N06397-10/02/76-18-	14-13.0-		0-	-	-	-	7.6-	650-		-3-8-5-6-1-3-1-	-3-3-2-3-	-1-	-	-	-	-	4.30
35-36.4793-103.1714-2-12-						0-N06399-10/03/76-12-	30-19.0-		-	-	-	-	7.7-	150-		7-3-8-5-6-1-4-4-2-4-2-1-1-	-3-	-	-	-	-	-	3.40
35-36.4292-103.2385-2-12-						0-N06410-10/03/76-17-	24-14.0-		-	-	-	-	8.3-	500-		1-3-7-5-6-1-2-1-1-4-3-2-2-	-1-	-	-	-	-	-	4.00
35-36.4225-103.2164-2-11-						0-N06411-10/03/76-18-	22-14.0-		-	-	-	-	7.7-	440-		7-1-1-5-6-4-4-1-	-4-4-2-3-	-1-	-	-	-	-	3.30
35-36.6133-103.4358-2-15-						0-N06417-10/05/76-17-	12-		-	-	-	-	-	-		1-1-1-5-6-	-1-	-2-4-3-3-4-	-1-1-	-	-	-	-	3.40
35-36.7400-103.4133-2-12-						0-N06420-10/07/76-13-	6-	9.0-	-	-	-	-	7.6-	500-		5-1-1-5-6-2-2-3-2-4-3-4-3-	-1-	-	-	-	-	-	2.90
35-36.7453-103.4922-2-15-						0-N06421-10/07/76-14-	10-		-	-	-	-	-	-		17-1-2-5-6-	-1-	-2-4-3-4-2-	-1-1-	-	-	-	-	2.40
35-36.9458-103.4244-2-11-						0-N06425-10/07/76-15-	6-	14.0-	-	-	-	-	6.6-	500-		-1-4-5-6-3-	-2-	-4-3-3-3-	-1-1-	-	-	-	-	3.10
35-36.6742-103.5747-2-12-						0-N06437-09/30/76-13-	18-		-	-	-	-	-	-		-3-9-4-6-	- - -	-4-3-2-3-	-1-1-	-	-	-	-	2.60
35-36.6414-103.5359-2-15-						0-N06438-09/30/76-15-	21-		-	-	-	-	-	-		-1- -5-6-	-1-	- -4-3-2-2-	-1-1-	-	-	-	-	2.80
35-36.6925-103.5811-2-12-						0-N06444-10/02/76- 9-	21-		-	-	-	-	-	-		-1-4-5-6-	- - -	-4-3-2-2-	-3-1-	-	-	-	-	3.50
35-36.7025-103.5758-2-12-						0-N06445-10/02/76-10-	22-13.9-		-	-	-	-	7.3-	1050-		-1-2-4-6-2-2-1-1-4-3-2-2-	-1-	-	-	-	-	-	4.60
35-36.7283-103.5589-2-12-						0-N06447-10/02/76-11-	22-13.5-		-	-	-	-	8.0-	340-		-1-1-4-5-1-2-1-	-4-3-2-2-	-1-1-	-	-	-	-	4.80
35-36.7381-103.6106-2-11-						0-N06448-10/02/76-11-	23-		-	-	-	-	-	-		-1-2-5-6-	- - -	-4-3-1-1-	-3-1-	-	-	-	-	3.40
35-36.1378-103.3333-2-15-						0-N06476-09/26/76-14-	24-		-	-	-	-	-	-		-1-1-7-1-	-1-	-2-4-3-2-2-	-1-1-	-	-	-	-	2.60
35-36.1594-103.2825-2-15-						0-N06480-09/28/76-12-	12-		-	-	-	-	-	-		-1-1-4-1-	-1-	-2-4-3-3-3-	-1-1-	-	-	-	-	2.90
35-36.7533-103.5279-2-15-						0-N06486-10/04/76-14-	8-		-	-	-	-	-	-		-1-3-5-6-	-1-	- -4-3-3-2-	-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
35-36.4633-103.5239-2-15-						0-N06425	-5	5	-5	27	-20	17	13	-10	-15	2	37
35-36.0400-103.9429-2-12-						0-N06433	-5	-5	-5	23	-20	-15	8	-10	-15	2	23
35-36.6703-103.7891-2-15-						0-N06445	-5	5	-5	30	-20	19	9	-10	-15	2	34
35-36.6925-103.7892-2-15-						0-N06452	-5	6	-5	27	-20	23	14	-10	-15	3	42
35-36.0183-103.4278-2-11-						0-N06457	-5	-5	-5	31	-20	-15	9	-10	-15	2	48
35-36.0469-103.4167-2-11-						0-N06459	-5	-5	-5	17	-20	-15	5	-10	-15	2	24
35-36.1194-103.2850-2-11-						0-N06462	-5	-5	-5	21	-20	-15	7	-10	-15	2	25
35-36.0656-103.7503-2-12-						0-N06429	-5	-5	-5	20	-20	-15	8	-10	-15	2	36
35-36.2244-103.4619-2-15-						0-N06443	-5	-5	-5	23	-20	-15	13	-10	-15	2	29
35-36.2247-103.4181-2-11-						0-N06445	-5	-5	-5	25	-20	-15	9	-10	-15	3	36
35-36.2172-103.3953-2-11-						0-N06446	-5	5	-5	26	-20	16	11	-10	-15	3	37
35-36.1653-103.3683-2-11-						0-N06450	-5	6	-5	16	-20	-15	8	-10	-15	2	21
35-36.1803-103.3506-2-11-						0-N06451	-5	-5	-5	17	-20	17	9	-10	-15	2	24
35-36.1014-103.5722-2-12-						0-N06460	-5	-5	-5	26	-20	-15	5	-10	-15	2	32
35-36.1656-103.5469-2-15-						0-N06474	-5	-5	-5	21	-20	-15	-5	-10	-15	2	26
35-36.3817-103.3642-2-15-						0-N06483	-5	-5	-5	16	-20	-15	6	-10	-15	2	10
35-36.1364-103.0786-2-15-						0-N06511	-5	-5	-5	23	-20	-15	-5	-10	-15	2	43
35-36.0403-103.1075-2-15-						0-N06529	-5	-5	-5	32	-20	-15	5	-10	-15	2	18
48-36.3614-103.0294-2-15-						0-N06533	-5	10	-5	27	-20	-15	11	-10	-15	-1	44
35-36.6211-103.6847-2-15-						0-N06545	-5	6	-5	32	-20	-15	6	-10	-15	2	43
35-36.5836-103.6353-2-15-						0-N06546	-5	5	-5	38	-20	20	5	-10	-15	3	42
35-36.5417-103.9544-2-15-						0-N06548	-5	-5	-5	20	-20	-15	5	-10	-15	3	39
35-36.5811-103.6681-2-15-						0-N06554	-5	5	-5	27	-20	20	5	-10	-15	3	45
35-36.5256-103.6283-2-15-						0-N06562	-5	8	-5	43	-20	39	6	-10	-15	3	27
35-36.7350-103.6963-2-11-						0-N06576	-5	-5	-5	26	-20	17	9	-10	-15	2	27
35-36.9206-103.8517-2-15-						0-N06584	-5	-5	-5	25	-20	-15	8	-10	-15	2	34
35-36.9861-103.9742-2-15-						0-N06585	-5	-5	-5	33	-20	-15	-5	-10	-15	2	31
35-36.9664-103.8692-2-15-						0-N06586	-5	-5	-5	25	-20	30	11	-10	-15	2	31
35-36.9394-103.9725-2-15-						0-N06587	-5	-5	-5	36	-20	24	13	-10	-15	2	71
35-36.9000-103.8586-2-15-						0-N06588	-5	-5	-5	34	-20	36	11	-10	-15	2	44
35-36.1425-103.6450-2-15-						0-N06589	-5	-5	-5	15	-20	-15	5	-10	-15	2	28
35-36.1506-103.6541-2-15-						0-N06591	-5	7	-5	29	-20	-15	5	-10	-15	3	36
35-36.1597-103.6306-2-11-						0-N06592	-5	6	-5	22	-20	-15	5	-10	-15	2	27
35-36.4861-103.2092-2-15-						0-N06596	-5	6	-5	31	-20	27	11	-10	-15	1	34
35-36.4944-103.2086-2-11-						0-N06597	-5	7	-5	36	-20	43	5	-10	-15	-1	39
35-36.4783-103.1714-2-12-						0-N06599	-5	-5	-5	37	-20	19	14	-10	-15	-1	46
35-36.4292-103.2366-2-12-						0-N06610	-5	-5	-5	25	-20	-15	9	-10	-15	2	31
35-36.4225-103.2164-2-11-						0-N06611	-5	5	-5	17	-20	22	17	-10	-15	1	26
35-36.6133-103.4358-2-15-						0-N06617	-5	-5	-5	24	-20	-15	14	-10	-15	3	42
35-36.7400-103.4133-2-12-						0-N06620	-5	-5	-5	33	-20	-15	11	-10	-15	2	22
35-36.7453-103.4922-2-15-						0-N06621	-5	-5	-5	26	-20	-15	6	-10	-15	2	21
35-36.9658-103.4244-2-11-						0-N06625	-5	-5	-5	22	-20	-15	10	-10	-15	-1	32
35-36.6742-103.5747-2-12-						0-N06627	-5	-5	-5	14	-20	21	6	-10	-15	2	19
35-36.6414-103.5389-2-15-						0-N06630	-5	-5	-5	29	-20	-15	5	-10	-15	1	90
35-36.6925-103.5911-2-12-						0-N06644	-5	5	-5	29	-20	19	11	-10	-15	3	52
35-36.7025-103.5759-2-12-						0-N06645	-5	-5	-5	20	-20	-15	6	-10	-15	2	37
35-36.7283-103.5589-2-12-						0-N06647	-5	5	-5	32	-20	17	7	-10	-15	3	52
35-36.7381-103.6106-2-11-						0-N06649	-5	-5	-5	35	-20	17	20	-10	-15	3	48
35-36.1878-103.3333-2-15-						0-N06674	-5	-5	-5	21	-20	-15	11	-10	-15	-1	24
35-36.1594-103.2825-2-15-						0-N06680	-5	9	-5	34	-20	-15	13	-10	-15	2	38
35-36.7533-103.5274-2-15-						0-N06686	-5	5	-5	28	-20	-15	-5	-10	-15	-1	20

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
35-36.4633-103.6239-2-15-						0-N06975	56040	-0.10	680	24100	86	-84	12.2	71	4.1	6	1.7	30250	15.5	18570	51	0.5
35-36.0400-103.9428-2-12-						0-N06122	42420	-0.09	661	23070	61	-100	8.7	46	3.1	4	0.9	23200	16.2	15860	26	0.5
35-36.6703-103.7881-2-15-						0-N06145	53040	-0.09	687	18410	96	-75	14.7	76	4.6	5	1.9	35990	11.7	18180	41	0.5
35-36.6925-103.7892-2-15-						0-N06152	54000	-0.07	695	14360	86	-91	12.2	61	5.2	7	1.7	30830	10.3	21070	46	0.5
35-36.0183-103.4278-2-11-						0-N06207	41990	-0.06	554	43880	51	99	5.3	39	2.2	4	1.1	15120	9.7	15400	22	0.3
35-36.0469-103.4167-2-11-						0-N06208	38470	-0.05	453	14120	57	-52	4.5	33	3.3	4	0.7	14310	13.8	16810	27	0.4
35-36.1194-103.2856-2-11-						0-N06213	44370	-0.08	478	32960	82	187	13.2	67	4.6	5	1.7	32960	14.0	16540	52	0.6
35-36.0656-103.7603-2-12-						0-N06220	41960	-0.05	1078	31900	51	-60	4.3	37	1.8	4	0.8	15040	19.9	16050	27	0.4
35-36.2244-103.4619-2-15-						0-N06243	49960	-0.07	495	4332	77	80	6.9	45	4.1	5	1.4	19360	17.8	13620	31	0.6
35-36.2247-103.4181-2-11-						0-N06245	53520	-0.09	495	15440	79	-64	10.4	60	4.3	6	1.5	26060	15.4	12680	34	0.6
35-36.2172-103.3953-2-11-						0-N06246	50810	-0.09	489	9126	102	-68	12.5	59	6.2	6	1.9	32570	10.7	15130	51	0.6
35-36.1653-103.3683-2-11-						0-N06250	40410	-0.06	499	17550	58	120	4.7	36	3.3	6	1.3	15140	30.5	13070	29	0.6
35-36.1803-103.3506-2-11-						0-N06251	39810	-0.06	445	15910	52	141	4.6	30	2.5	4	1.0	13600	13.1	13200	21	0.5
35-36.1014-103.5722-2-12-						0-N06260	52020	-0.08	478	27190	77	138	7.9	50	4.1	6	1.5	23660	15.1	14670	36	0.5
35-36.1656-103.5469-2-15-						0-N06274	38340	-0.06	365	10750	69	-51	5.0	47	2.4	5	1.0	14870	30.0	13030	27	0.6
35-36.3817-103.3642-2-15-						0-N06282	25090	-0.03	424	2692	15	-50	1.4	5	1.0	2	0.5	4198	2.8	16140	8	0.2
35-36.1364-103.0786-2-15-						0-N06311	56740	-0.09	548	54410	77	-71	10.8	49	4.6	6	1.6	30550	10.0	14660	40	0.4
35-36.0403-103.1075-2-15-						0-N06320	25040	-0.05	470	13510	43	-48	4.2	36	2.1	3	0.6	13990	26.9	10510	19	0.5
48-36.3614-103.0294-2-15-						0-N06339	54890	-0.07	507	52430	69	-69	9.1	46	5.0	5	1.4	25000	11.9	22030	38	0.6
35-36.6211-103.6847-2-15-						0-N06345	55540	-0.06	583	47350	72	-79	9.4	56	2.8	6	1.5	24930	13.3	18760	33	0.5
35-36.5836-103.6353-2-15-						0-N06346	56330	-0.09	640	18590	103	-78	14.1	72	3.8	6	1.6	33900	10.7	20370	38	0.5
35-36.5417-103.9544-2-15-						0-N06348	53550	-0.09	652	26050	91	-78	13.4	79	4.8	6	1.9	33550	13.2	18320	47	0.6
35-36.5811-103.6681-2-15-						0-N06354	55810	-0.08	586	25200	82	-72	14.1	75	4.6	6	1.7	34290	11.2	20610	41	0.5
35-36.5256-103.6283-2-15-						0-N06360	65120	-0.10	765	14100	120	-86	19.9	118	5.0	5	2.2	41550	12.4	18320	62	0.6
35-36.7350-103.6969-2-11-						0-N06375	49610	-0.07	597	25490	92	-64	12.4	69	4.5	5	2.0	30450	15.4	17760	44	0.7
35-36.9200-103.8517-2-15-						0-N06384	48670	-0.06	373	54450	54	-52	7.8	45	3.6	5	1.1	20570	6.4	11120	29	0.3
35-36.9861-103.8742-2-15-						0-N06385	54400	-0.09	354	124800	70	-72	11.6	66	5.8	4	1.4	30720	5.6	12760	32	0.4
35-36.9664-103.8692-2-15-						0-N06386	53590	-0.08	514	52010	92	-66	15.9	98	6.1	5	1.9	40650	12.0	15350	47	0.6
35-36.9394-103.8725-2-15-						0-N06387	53220	-0.07	306	74590	66	-59	8.9	54	3.9	5	1.2	22970	7.0	10600	34	0.4
35-36.9000-103.8586-2-15-						0-N06388	58100	-0.09	477	89960	81	-74	16.1	98	6.3	6	1.7	38450	7.9	17990	44	0.4
35-36.1425-103.6450-2-15-						0-N06389	41910	-0.05	375	20050	47	130	5.2	28	2.9	5	0.9	14830	10.7	12280	25	0.4
35-36.1606-103.6561-2-15-						0-N06391	46920	-0.06	411	16370	65	-54	5.3	41	3.0	5	1.1	15950	9.7	13740	28	0.5
35-36.1597-103.6306-2-11-						0-N06392	39490	-0.06	648	22320	56	-51	6.5	41	2.8	4	0.9	17610	19.5	13560	34	0.5
35-36.4861-103.2092-2-15-						0-N06396	53130	-0.08	437	57640	89	-67	14.3	77	4.1	5	2.0	37470	16.6	14510	47	0.6
35-36.4944-103.2086-2-11-						0-N06397	49540	-0.07	594	115200	58	-80	9.6	62	2.9	4	1.2	25200	6.2	12100	31	0.3
35-36.4783-103.1714-2-12-						0-N06399	63100	-0.10	601	25140	94	-81	13.5	81	5.3	6	1.8	36530	12.9	16350	51	0.6
35-36.4292-103.2386-2-12-						0-N06410	47640	-0.05	688	54020	59	-76	6.7	50	2.2	6	1.3	22730	16.0	15340	35	0.6
35-36.4225-103.2164-2-11-						0-N06411	47380	-0.06	607	18520	64	-70	5.5	32	2.3	5	1.3	18550	18.5	19590	22	0.6
35-36.6133-103.4358-2-15-						0-N06417	59920	-0.06	591	9751	93	-73	9.7	57	4.4	6	1.6	26320	14.0	20500	38	0.6
35-36.7400-103.4133-2-12-						0-N06420	45680	-0.06	519	16620	69	-56	6.0	42	1.7	4	1.2	17620	11.1	12850	25	0.4
35-36.7453-103.4922-2-15-						0-N06421	38540	-0.06	315	8007	66	-41	7.1	35	4.3	4	1.2	20390	10.6	10580	29	0.4
35-36.9658-103.4244-2-11-						0-N06425	50940	-0.05	745	27930	70	-58	7.4	38	3.9	5	1.5	21470	10.4	14600	33	0.5
35-36.6742-103.5747-2-12-						0-N06437	36420	-0.05	548	35640	51	172	6.8	51	-1.0	5	1.1	18600	12.1	11840	26	0.4
35-36.6414-103.5389-2-15-						0-N06438	62430	-0.07	701	75930	85	-74	9.3	53	4.3	5	1.4	26280	7.8	19270	35	0.4
35-36.6925-103.5811-2-12-						0-N06444	67540	-0.07	539	9412	91	-68	12.0	63	6.0	6	1.7	32070	10.4	16400	40	0.5
35-36.7025-103.5758-2-12-						0-N06445	50200	-0.05	490	20520	77	145	8.6	57	3.3	7	1.5	24480	22.7	14390	35	0.6
35-36.7283-103.5589-2-12-						0-N06447	56940	-0.07	655	15950	106	-61	8.6	50	4.4	6	1.7	26360	12.1	16170	38	0.5
35-36.7381-103.6106-2-11-						0-N06449	49820	-0.09	672	7150	109	-84	16.7	76	4.9	7	2.1	38590	12.7	20920	50	0.7
35-36.1978-103.3333-2-15-						0-N06476	40370	-0.04	364	6071	47	-57	4.4	31	2.4	4	1.1	15230	15.6	15270	25	0.4
35-36.1594-103.2825-2-15-						0-N06480	51410	-0.06	412	11990	69	-55	6.4	46	3.1	4	1.1	19690	12.6	15360	30	0.5
35-36.7533-103.5278-2-15-						0-N06496	39070	-0.06	425	12330	69	-51	8.8	47	3.4	5	1.3	24290	21.9	13320	32	0.6

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
35-36.4633-103.6239-2-15-						0-N06375	13370	470	7604	87	-2	10.3	7.5	-238	-1	-1	13.5	3453	71	4.2	116	0.207
35-36.0400-103.9428-2-12-						0-N06133	4761	524	10170	63	-2	6.8	5.3	-291	-1	-1	9.3	2285	50	3.3	-57	0.355
35-36.6703-103.7881-2-15-						0-N06145	13260	544	9206	78	-2	11.1	7.4	-260	-1	-1	13.7	3995	69	4.3	431	0.204
35-36.6925-103.7892-2-15-						0-N06153	12860	531	10580	58	-2	9.9	7.2	-246	-1	-1	12.6	4190	82	4.7	68	0.262
35-36.0183-103.4278-2-11-						0-N06207	17630	287	6233	40	-1	5.1	4.2	-187	-1	-1	8.2	2462	41	2.7	-54	0.293
35-36.0469-103.4167-2-11-						0-N06208	6066	110	4460	85	-1	5.6	4.4	-123	-1	-1	8.6	2115	65	3.4	-42	0.291
35-36.1194-103.2950-2-11-						0-N06212	9095	443	7673	83	-2	11.4	5.9	-242	-1	1	12.9	2830	49	4.7	150	0.225
35-36.0656-103.7503-2-12-						0-N06220	11730	325	7188	50	-1	5.3	4.5	405	-1	-1	8.1	2867	39	3.6	52	0.432
35-36.2244-103.4619-2-15-						0-N06243	7138	320	5746	42	-2	7.0	6.4	-179	-1	-1	10.9	3923	58	4.8	58	0.294
35-36.2247-103.4181-2-11-						0-N06245	9302	214	5803	94	-2	9.3	7.8	-166	2	-1	14.1	3435	67	5.9	75	0.291
35-36.2172-103.3953-2-11-						0-N06246	11100	473	5409	74	-2	11.5	7.0	-299	-1	-1	16.0	3776	82	4.0	111	0.206
35-36.1653-103.3683-2-11-						0-N06250	7943	224	5613	44	-1	5.5	5.2	230	-1	-1	9.9	3626	44	4.4	-27	0.424
35-36.1803-103.3504-2-11-						0-N06251	7824	268	6715	-17	-1	4.9	4.4	-174	-1	-1	8.2	3366	46	3.4		0.366
35-36.1014-103.5722-2-12-						0-N06260	10910	317	5450	64	-2	8.5	6.9	-183	-1	-1	12.9	3196	59	4.3	78	0.256
35-36.1656-103.5469-2-15-						0-N06274	8375	218	4336	35	-1	5.6	5.6	-143	1	-1	9.7	3273	54	5.3	46	0.392
35-36.3817-103.3542-2-15-						0-N06282	-1707	93	6471	38	-1	1.4	1.3	-109			1.8	449	15	1.0		0.500
35-36.1354-103.0786-2-15-						0-N06311	10910	286	5464	125	-2	10.0	7.1	-206	-1	-1	12.8	3117	67	4.4	100	0.195
35-36.0403-103.1075-2-15-						0-N06320	4602	220	4797	48	-1	4.4	3.0	-127	-1	-1	6.8	2161	29	4.0	38	0.368
48-36.3614-103.0294-2-15-						0-N06339	12170	371	6284	58	-2	7.9	5.7	-225	-1	-1	12.4	3161	65	4.3	-71	0.210
35-36.6211-103.6847-2-15-						0-N06345	13040	413	9005	58	-2	8.4	6.2	-202	2	-1	11.5	3921	81	4.2	70	0.287
35-36.5836-103.6353-2-15-						0-N06346	17270	604	8717	58	-2	11.0	7.3	-233	-1	-1	12.6	4696	94	3.7	-27	0.238
35-36.5417-103.9544-2-15-						0-N06348	11870	456	9316	67	-2	11.1	8.8	-212	-1	-1	15.5	3449	70	4.2	71	0.213
35-36.5911-103.6681-2-15-						0-N06354	13030	425	9433	67	-2	11.0	7.9	-266	-1	-1	13.3	4525	96	4.8	100	0.226
35-36.5256-103.6283-2-15-						0-N06360	14980	491	8363	90	-2	14.0	8.2	-249	-1	-1	17.7	4975	76	7.2	90	0.181
35-36.7350-103.6969-2-11-						0-N06375	11330	382	8293	102	-2	10.9	6.7	458	-1	-1	14.3	3506	57	5.1	135	0.203
35-36.9200-103.8517-2-15-						0-N06384	13310	318	3450	-21	-1	5.8	4.6	445	-1	-1	9.6	3130	70	2.7	109	0.323
35-36.9361-103.8742-2-15-						0-N06385	14600	326	3584	61	-2	10.3	6.5	596	-1	-1	14.2	2895	128	3.8	120	0.359
35-36.9654-103.8692-2-15-						0-N06386	13760	464	4089	68	-2	12.8	7.0	339	2	-1	14.2	4504	103	5.5	123	0.254
35-36.9334-103.8725-2-15-						0-N06387	9104	303	3056	42	-2	8.6	5.3	343	-1	-1	13.8	3341	90	4.3	121	0.362
35-36.9000-103.9586-2-15-						0-N06388	21300	462	5035	46	-2	12.0	5.9	-209	-1	-1	13.6	4320	109	3.8	128	0.301
35-36.1425-103.6450-2-15-						0-N06390	8262	230	4655	45	-1	5.2	4.8	-147	-1	-1	8.7	2528	45	2.9	51	0.333
35-36.1606-103.6561-2-15-						0-N06391	8306	224	5174	-17	-1	5.2	5.2	-152	-1		10.7	3094	49	4.1	58	0.271
35-36.1597-103.6306-2-11-						0-N06392	9240	221	4311	61	-2	6.5	4.9	299	-1	-1	9.6	2357	41	4.4	47	0.313
35-36.4861-103.2092-2-15-						0-N06396	15410	494	6507	73	-2	12.3	-0.8	-246	-1	-1	15.9	4734	98	5.3	124	0.195
35-36.4944-103.2086-2-11-						0-N06397	20520	495	5614	-24	-2	7.5	5.0	446	-1	-1	9.1	2933	145	3.0	-32	0.473
35-36.4783-103.1714-2-12-						0-N06399	15460	498	7733	96	-2	11.8	8.3	-229	-1	-1	14.5	3761	75	4.6	95	0.234
35-36.4292-103.2385-2-12-						0-N06410	17030	388	7773	63	-1	6.8	5.6	525	-1	-1	11.1	3135	66	4.2	95	0.360
35-36.4225-103.2164-2-11-						0-N06411	7304	342	11310	68	-1	5.6	5.4	-212	-1	-1	9.1	3834	63	4.5	-54	0.363
35-36.6133-103.4358-2-15-						0-N06417	11820	520	7519	74	-1	9.5	7.0	-219	-1	-1	13.3	4361	74	5.2	94	0.256
35-36.7400-103.4133-2-12-						0-N06420	9426	313	6400	57	-1	6.0	4.8	-186	-1	-1	9.4	2672	48	3.9	58	0.309
35-36.7453-103.4922-2-15-						0-N06421	7733	266	3738	55	-1	5.7	5.7	-153	-1	-1	10.5	2502	45	3.5	35	0.229
35-36.9658-103.4244-2-11-						0-N06425	15480	347	4939	61	-1	7.7	5.2	473	-1	-1	11.0	3071	54	3.4	61	0.282
35-36.6742-103.5747-2-12-						0-N06437	8720	294	7388	-17	-1	5.4	4.7	-166	-1	-1	7.5	3396	76	3.9	36	0.347
35-36.6414-103.5389-2-15-						0-N06438	15730	420	7382	68	-2	8.7	6.6	-243	-1	-1	10.8	3768	82	3.7	-95	0.259
35-36.6925-103.5811-2-12-						0-N06446	12780	443	6026	84	-2	11.1	7.0	-208	-1	1	13.9	4384	80	5.6	105	0.252
35-36.7025-103.5758-2-12-						0-N06447	8407	417	7131	47	-1	7.5	6.7	-183	-1	-1	12.6	4093	69	4.7	88	0.365
35-36.7283-103.5589-2-12-						0-N06447	15110	318	5671	-25	-2	9.9	7.8	-217	-1	-1	14.2	4338	80	5.4	68	0.338
35-36.7381-103.6106-2-11-						0-N06449	11610	441	9410	100	-2	12.9	8.5	-255	-1	-1	16.7	4197	82	6.1	116	0.204
35-36.1878-103.3333-2-15-						0-N06475	5108	248	6547	46	-1	5.2	4.1	-151	-1	-1	8.3	2561	41	3.4	63	0.313
35-36.1594-103.2825-2-15-						0-N06480	10960	309	6243	48	-1	6.8	5.7	-182	-1	-1	11.7	3426	65	3.6	59	0.248
35-36.7533-103.5278-2-15-						0-N06436	8070	249	4525	63	-1	7.7	5.6	-147	-1	-1	11.9	3271	55	4.9	42	0.252

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 (cts/min)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	STREAM WIDTH	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
35	36.7742	103.5472	2	12	0	N-006488	10/04/76	15	62	-	-	-	-	-	-	-1	-3	-5	-6	-	-	-	-	-3	-3	-3	-3	-	-	-	-	-	3.20
35	36.7747	103.5469	2	12	0	N-006489	10/04/76	15	62	-	-	-	-	-	-	-1	-3	-5	-7	-	-	-	-	-3	-3	-3	-3	-	-1	-	-	-	2.30
35	36.7939	103.5331	2	15	0	N-006490	10/04/76	18	80	-	-	-	-	-	-	-1	-6	-5	-6	-1	-	-4	-3	-3	-3	-3	-	-	-	-	-	-	3.60
35	36.7747	103.7111	2	11	0	N-006492	10/06/76	14	10	-	-	-	-	-	-	-1	-1	-5	-6	-	-	-	-	-4	-3	-2	-2	-3	-	-	-	-	3.20
35	36.5108	103.1147	2	12	0	N-006593	09/29/76	11	19	15.8	0	-	7.5	-	90	20	-3	-5	-4	-6	-2	-4	-3	-2	-1	-3	-	-	-	-	-	3.00
35	36.5561	103.0550	2	15	0	N-006598	09/29/76	12	21	-	0	-	-	-	-	13	-1	-5	-6	-	-	-	-	-4	-4	-2	-1	-3	-	-	-	-	2.70
35	36.5647	103.0035	2	15	0	N-006614	09/29/76	14	19	-	0	-	-	-	-	1	-1	-	4	-1	-1	-	-4	-2	-2	-1	-1	-3	-	-	-	-	3.40
35	36.5114	103.2805	2	15	0	N-006629	09/29/76	13	13	-	0	-	-	-	-	-1	-1	-5	-6	-	-1	-	-2	-4	-3	-2	-2	-3	-	-	-	-	3.00
35	36.5111	103.3285	2	12	0	N-006630	09/29/76	14	20	15.3	0	-	7.7	-	70	-3	-8	-5	-6	-2	-2	-3	-2	-4	-3	-2	-2	-3	-	-	-	-	3.00
35	36.5699	103.3439	2	12	0	N-006634	09/29/76	15	20	14.2	0	-	7.9	-	55	-3	-8	-5	-6	-2	-2	-3	-1	-4	-3	-1	-2	-3	-	-	-	-	2.80
35	36.4228	103.2564	2	15	0	N-006540	09/29/76	9	25	-	-	-	-	-	-	-1	-1	-4	-6	-	-1	-	-2	-4	-3	-2	-1	-3	-	-	-	-	2.60
35	36.4289	103.3461	2	15	0	N-006542	09/30/76	10	26	-	0	-	-	-	-	-1	-1	-4	-6	-	-1	-	-1	-4	-3	-2	-1	-3	-	-	-	-	3.70
35	36.4369	103.3503	2	12	0	N-006543	09/30/76	10	26	14.2	-	-	6.9	-	300	-1	-1	-	-	-2	-2	-1	-2	-4	-3	-2	-1	-3	-	-	-	-	3.00
35	36.4072	103.4000	2	15	0	N-006548	09/30/76	15	26	-	-	-	-	-	-	-1	-1	-4	-6	-	-1	-	-1	-4	-3	-2	-1	-3	-	-	-	-	2.80
35	36.3867	103.4147	2	15	0	N-006550	09/30/76	15	27	-	-	-	-	-	-	-1	-1	-4	-6	-	-1	-	-1	-4	-3	-2	-1	-3	-	-	-	-	2.70
35	36.4114	103.4514	2	15	0	N-006554	09/30/76	16	26	-	-	-	-	-	-	-1	-1	-4	-6	-	-1	-	-2	-4	-3	-2	-1	-3	-	-	-	-	3.00
35	36.4772	103.4883	2	15	0	N-006558	09/30/76	15	25	-	-	-	-	-	-	-1	-1	-4	-6	-	-1	-	-1	-4	-4	-2	-1	-3	-	-	-	-	2.70
35	36.4897	103.4889	2	15	0	N-006559	09/30/76	16	24	-	-	-	-	-	-	-1	-1	-4	-6	-	-1	-	-1	-4	-3	-2	-1	-3	-	-	-	-	3.20
35	36.4947	103.3944	2	15	0	N-006560	09/30/76	17	24	-	-	-	-	-	-	-3	-8	-4	-7	-1	-1	-4	-3	-2	-1	-3	-	-	-	-	-	-	2.80
35	36.5969	103.4559	2	12	0	N-006570	09/29/76	10	12	14.2	-	-	7.8	-	300	-1	-1	-5	-7	-3	-2	-3	-2	-4	-3	-3	-2	-1	-	-	-	-	3.60
35	36.5708	103.4883	2	15	0	N-006575	09/29/76	14	24	-	-	-	-	-	-	-1	-	-	-	-	-1	-	-2	-4	-3	-3	-1	-1	-	-	-	-	3.00
35	36.5822	103.4794	2	11	0	N-006577	09/29/76	14	21	15.2	-	-	7.7	-	1200	-1	-	-5	-8	-1	-4	-5	-	-4	-3	-2	-1	-1	-	-	-	-	3.10
35	36.8442	103.8475	2	11	0	N-006592	10/06/76	10	10	-	-	-	-	-	-	17	-3	-6	-5	-6	-	-	-	-1	-3	-3	-2	-1	-	-	-	-	3.30
35	36.3000	103.4406	2	11	0	N-006602	09/29/76	17	21	20.1	-	-	8.2	-	925	10	-1	-1	-5	-6	-1	-2	-3	-4	-2	-2	-1	-1	-	-	-	-	1.60
35	36.2894	103.4403	2	11	0	N-006603	09/29/76	17	20	18.0	-	-	8.7	-	900	3	-1	-2	-4	-6	-1	-2	-3	-4	-3	-3	-1	-1	-	-	-	-	3.00
35	36.2725	103.4242	2	11	0	N-006604	09/29/76	17	19	18.9	-	-	8.2	-	150	6	-1	-1	-4	-6	-1	-2	-3	-4	-3	-4	-1	-1	-	-	-	-	3.20
35	36.2597	103.4142	2	15	0	N-006605	09/29/76	18	19	-	-	-	-	-	-	13	-1	-1	-4	-1	-	-1	-2	-4	-2	-2	-1	-	-	-	-	-	2.90
35	36.2711	103.4467	2	11	0	N-006606	09/29/76	18	19	13.5	-	-	7.6	-	625	9	-1	-1	-4	-6	-1	-2	-3	-4	-3	-3	-1	-1	-	-	-	-	1.90
35	36.7436	103.2235	2	12	0	N-006624	09/30/76	17	23	20.2	-	-	8.0	-	40	11	-1	-1	-5	-6	-1	-4	-3	-1	-4	-2	-3	-1	-	-	-	-	3.30
35	36.7933	103.7947	2	15	0	N-006631	10/06/76	15	5	-	-	-	-	-	-	8	-3	-8	-5	-6	-	-1	-	-4	-3	-2	-4	-1	-	-	-	-	4.20
35	36.6969	103.2378	2	12	0	N-006636	09/30/76	13	20	13.4	-	-	7.9	-	550	3	-1	-1	-4	-1	-2	-2	-3	-2	-4	-2	-4	-1	-	-	-	-	2.90
35	36.6814	103.1031	2	11	0	N-006642	09/30/76	15	24	13.4	0	-	7.7	-	600	3	-1	-1	-4	-6	-	-1	-	-4	-2	-2	-1	-3	-	-	-	-	4.00
35	36.6922	103.0628	2	12	0	N-006644	09/30/76	16	-	23.2	0	-	8.0	-	340	3	-1	-1	-4	-1	-3	-3	-1	-3	-4	-2	-2	-1	-3	-	-	-	-	27.20
35	36.6164	103.8706	2	15	0	N-006648	09/02/76	10	14	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-1	-4	-3	-2	-3	-3	-	-	-	-	3.00
35	36.5994	103.8553	2	15	0	N-006649	10/02/76	11	14	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-1	-4	-3	-2	-3	-3	-	-	-	-	2.90
35	36.5739	103.8472	2	15	0	N-006650	10/02/76	11	14	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-1	-4	-3	-3	-3	-3	-	-	-	-	2.90
35	36.5753	103.8478	2	15	0	N-006651	10/02/76	11	14	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-1	-4	-3	-3	-3	-3	-	-	-	-	3.10
35	36.5311	103.8486	2	15	0	N-006655	10/02/76	12	14	-	-	-	-	-	-	-1	-	-5	-6	-	-1	-	-1	-4	-3	-2	-3	-3	-	-	-	-	3.20
35	36.5081	103.8381	2	15	0	N-006657	10/02/76	12	14	-	-	-	-	-	-	-1	-	-5	-6	-	-1	-	-1	-4	-3	-2	-3	-3	-	-	-	-	3.30
35	36.5161	103.8172	2	15	0	N-006658	10/02/76	13	14	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-1	-4	-3	-2	-3	-3	-	-	-	-	3.10
35	36.5275	103.8272	2	15	0	N-006659	10/02/76	13	14	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-1	-4	-3	-2	-3	-3	-	-	-	-	2.80
35	36.5053	103.7839	2	15	0	N-006661	10/02/76	13	14	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-1	-4	-3	-2	-3	-3	-	-	-	-	3.00
35	36.5908	103.7519	2	15	0	N-006666	10/02/76	16	16	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-1	-4	-3	-3	-2	-3	-	-	-	-	2.90
35	36.7089	103.2014	2	12	0	N-006669	10/02/76	15	20	17.9	-	-	7.9	-	600	13	-1	-1	-4	-1	-3	-2	-1	-2	-4	-2	-3	-3	-	-	-	-	10.50
35	36.7283	103.1428	2	15	0	N-006672	10/03/76	14	24	-	-	-	-	-	-	9	-1	-1	-4	-6	-	-1	-	-2	-4	-2	-5	-1	-	-	-	-	2.30
35	36.7425	103.3061	2	15	0	N-006678	10/03/76	10	21	-	-	-	-	-	-	10	-1	-1	-4	-1	-	-1	-	-4	-3	-3	-1	-	-	-	-	-	4.20
35	36.3867	103.1078	2	15	0	N-006696	09/30/76	10	26	-	-	-	-	-	-	-1	-	-4	-6	-	-1	-	-2	-4	-3	-2	-1	-1	-	-	-	-	2.50
35	36.6675	103.6397	2	11	0	N-006707	10/01/76	11	20	-	-	-	-	-	-	13	-3	-8	-	-	-	-	-	-4	-3	-3	-3	-1	-	-	-	-	3.00
35	36.5497	103.7653	2	15	0	N-006718	10/02/76	15	16	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-1	-4	-3	-2	-1	-3	-	-	-	-	3.10
35	36.6100	103.8311	2	15	0	N-006720	10/02/76	17	14	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-	-4	-3	-2	-1	-3	-	-	-	-	2.80
35	36.6203	103.7842	2	15	0	N-006722	10/02/76	18	13	-	-	-	-	-	-	-3	-8	-5	-6	-	-1	-	-	-4	-3	-2	-1	-3	-	-	-	-	2.90

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
35-36.7742-103.5472-2-12-						0-N06488	-5	5	-5	21	-20	-15	10	-10	-15	-1	25
35-36.7747-103.5489-2-12-						0-N06489	-5	-5	-5	-10	-20	-15	10	-10	-15	-1	35
35-36.7939-103.6331-2-15-						0-N06490	-5	5	-5	27	-20	-15	6	-10	-15	3	41
35-36.7747-103.7111-2-11-						0-N06493	-5	6	-5	23	-20	29	12	-10	-15	3	34
35-36.5108-103.1147-2-12-						0-N06529	-5	6	-5	27	-20	-15	8	-10	-15	3	50
35-36.5561-103.0950-2-15-						0-N06508	-5	6	-5	14	-20	-15	11	-10	-15	2	43
35-36.5647-103.0036-2-15-						0-N06514	-5	-5	-5	20	-20	18	10	-10	-15	1	15
35-36.5114-103.2805-2-15-						0-N06530	-5	6	-5	35	-20	34	13	-10	-15	3	36
35-36.5111-103.3286-2-12-						0-N06529	-5	5	-5	25	-20	20	14	-10	-15	3	41
35-36.5689-103.3439-2-12-						0-N06534	-5	-5	-5	38	-20	26	6	-10	-15	2	70
35-36.4228-103.2564-2-15-						0-N06540	-5	5	-5	29	-20	18	11	-10	-15	2	50
35-36.4289-103.3461-2-15-						0-N06542	-5	-5	-5	25	-20	25	7	-10	-15	2	25
35-36.4369-103.3500-2-12-						0-N06543	-5	-5	-5	21	-20	15	-5	-10	-15	2	23
35-36.4072-103.4000-2-15-						0-N06548	-5	10	-5	34	-20	15	10	-10	-15	3	51
35-36.3867-103.4147-2-15-						0-N06551	-5	-5	-5	28	-20	18	11	-10	-15	3	41
35-36.4114-103.4514-2-15-						0-N06554	-5	7	-5	16	-20	-15	14	-10	-15	-1	95
35-36.4772-103.4883-2-15-						0-N06558	-5	-5	-5	31	-20	35	5	-10	-15	-1	35
35-36.4897-103.4889-2-15-						0-N06559	-5	-5	-5	34	-20	22	14	-10	-15	3	43
35-36.4947-103.3944-2-15-						0-N06560	-5	-5	-5	43	-20	29	14	-10	20	3	49
35-36.5969-103.4558-2-12-						0-N06570	-5	-5	-5	19	-20	23	-5	-10	-15	2	32
35-36.5708-103.4883-2-15-						0-N06576	-5	7	-5	30	-20	18	13	-10	-15	3	40
35-36.5822-103.4794-2-11-						0-N06577	-5	6	-5	40	-20	21	12	-10	-15	2	43
35-36.8442-103.9475-2-11-						0-N06592	-5	-5	-5	38	-20	21	7	-10	-15	2	45
35-36.3000-103.4406-2-11-						0-N06602	-5	-5	-5	21	-20	-15	-5	-10	-15	2	22
35-36.2894-103.4403-2-11-						0-N06603	-5	7	-5	22	-20	-15	12	-10	-15	2	30
35-36.2725-103.4242-2-11-						0-N06604	-5	-5	-5	17	-20	-15	5	-10	-15	2	27
35-36.2597-103.4142-2-15-						0-N06605	-5	-5	-5	21	-20	-15	6	-10	-15	2	23
35-36.2711-103.4467-2-11-						0-N06606	-5	-5	-5	-10	-20	-15	8	-10	-15	2	23
35-36.7436-103.2236-2-12-						0-N06624	-5	-5	-5	33	-20	20	6	-10	-15	3	49
35-36.7933-103.7947-2-15-						0-N06631	-5	-5	-5	27	-20	21	9	-10	-15	3	68
35-36.6969-103.2378-2-12-						0-N06636											
35-36.6814-103.1031-2-11-						0-N06642	-5	-5	-5	21	-20	-15	5	-10	-15	2	34
35-36.6922-103.0628-2-12-						0-N06644											
35-36.6164-103.5706-2-15-						0-N06648	-5	-5	-5	37	-20	25	13	-10	-15	3	54
35-36.5994-103.8553-2-15-						0-N06649	-5	5	-5	43	-20	30	8	-10	-15	3	55
35-36.5739-103.8472-2-15-						0-N06650	-5	-5	-5	39	-20	15	5	-10	-15	3	47
35-36.5753-103.8578-2-15-						0-N06651	-5	10	-5	23	-20	-15	17	-10	-15	3	38
35-36.5311-103.8486-2-15-						0-N06655	-5	5	-5	28	-20	15	14	-10	-15	3	38
35-36.5081-103.8381-2-15-						0-N06657	-5	-5	-5	35	-20	15	12	-10	16	2	37
35-36.5161-103.8172-2-15-						0-N06658	-5	-5	-5	35	-20	24	10	-10	-15	2	45
35-36.5275-103.8272-2-15-						0-N06659	-5	5	-5	27	-20	25	13	-10	17	2	33
35-36.5053-103.7839-2-15-						0-N06661	-5	5	-5	32	-20	17	9	-10	-15	2	46
35-36.5908-103.7519-2-15-						0-N06666	-5	-5	-5	25	-20	21	14	-10	-15	3	43
35-36.7089-103.2014-2-12-						0-N06669	5	-5	-5	16	-20	-15	13	-10	-15	-1	14
35-36.7283-103.1428-2-15-						0-N06672	-5	-5	-5	22	-20	-15	-5	-10	-15	2	15
35-36.7425-103.3061-2-15-						0-N06678	-5	-5	-5	17	-20	-15	11	-10	-15	2	13
35-36.3867-103.1078-2-15-						0-N06684	-5	-5	-5	24	-20	15	5	-10	-15	2	17
35-36.6575-103.6397-2-11-						0-N06700	-5	6	-5	36	-20	-15	10	-10	-15	3	24
35-36.5497-103.7553-2-15-						0-N06718	-5	-5	-5	34	-20	-15	22	-10	-15	3	23
35-36.6100-103.8311-2-15-						0-N06720	-5	-5	-5	26	-20	20	9	-10	-15	3	26
35-36.6203-103.7842-2-15-						0-N06722	-5	-5	-5	46	-20	25	-5	-10	-15	3	36

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
35-36.7742-103.5472-2-12-						0-N06488	41210	-0.06	470	16620	77	-65	10.1	65	3.7	5	1.6	26000	19.3	13130	42	0.6
35-36.7747-103.5499-2-12-						0-N06489	34890	-0.04	375	19450	45	-45	4.1	22	2.4	4	0.9	14020	11.5	13410	22	0.3
35-36.7939-103.5331-2-15-						0-N06490	56850	-0.07	443	14640	85	-59	7.8	51	3.0	6	1.3	21490	12.8	14400	33	0.6
35-36.7747-103.7111-2-11-						0-N06493	55220	-0.06	551	7710	96	-66	10.6	56	4.6	5	1.7	26550	14.4	17840	39	0.5
35-36.5108-103.1147-2-12-						0-N06503	52440	-0.06	584	29590	75	-75	10.6	60	4.4	6	1.5	28380	10.2	21090	41	0.5
35-36.5561-103.0550-2-15-						0-N06509	55040	-0.07	645	64090	68	-67	7.7	41	3.4	5	1.3	21560	10.1	15550	25	0.5
35-36.5647-103.0036-2-15-						0-N06514	33830	-0.06	445	11750	53	-63	4.2	45	2.8	5	1.4	23090	25.4	13390	29	0.9
35-36.5114-103.2805-2-15-						0-N06520	60420	-0.07	627	29120	79	-78	12.4	77	3.6	6	1.5	30150	11.3	18160	36	0.5
35-36.5111-103.3296-2-12-						0-N06530	53040	-0.07	529	19360	87	-73	9.8	71	3.3	5	1.4	27390	10.5	22390	35	0.5
35-36.5689-103.3439-2-12-						0-N06534	59560	-0.09	648	20240	98	-69	15.8	83	6.4	6	1.9	41110	10.5	19240	50	0.6
35-36.4228-103.2564-2-15-						0-N06540	52450	-0.08	542	30960	92	-81	13.0	59	5.5	5	1.7	35230	14.4	15700	52	0.6
35-36.4289-103.3461-2-15-						0-N06542	49900	-0.05	563	5989	70	-80	7.3	46	2.8	6	1.5	22180	20.5	17620	31	0.7
35-36.4369-103.3500-2-12-						0-N06543	49050	-0.06	542	16510	68	-68	6.7	51	3.1	5	1.3	19390	16.3	14490	29	0.5
35-36.4072-103.4000-2-15-						0-N06548	47370	-0.08	548	16890	85	-69	12.5	73	6.9	5	1.7	39160	11.0	19390	42	0.6
35-36.3867-103.4147-2-15-						0-N06550	53430	-0.06	618	29980	75	-70	9.4	51	3.6	5	1.6	27010	15.0	20600	39	0.6
35-36.4114-103.4614-2-15-						0-N06554	51920	-0.05	615	7508	60	-72	5.6	35	2.0	5	1.1	20270	14.6	19240	27	0.6
35-36.4772-103.4883-2-15-						0-N06559	43470	-0.06	1020	117000	64	-71	6.3	39	2.1	4	1.3	18100	13.3	14600	27	0.4
35-36.4897-103.4889-2-15-						0-N06560	64770	-0.08	635	6323	103	-81	17.1	69	5.7	6	2.1	37580	11.1	16740	50	0.6
35-36.4947-103.3944-2-15-						0-N06562	70820	-0.08	533	12510	110	-69	15.4	78	8.6	6	2.2	44060	12.7	21390	58	0.6
35-36.5969-103.4558-2-15-						0-N06570	52310	-0.06	599	20600	70	-75	9.1	52	3.1	6	1.6	22880	14.9	16890	34	0.6
35-36.5708-103.4883-2-15-						0-N06574	56710	-0.08	699	20820	96	-74	11.7	53	3.8	6	1.6	28550	10.6	18460	36	0.5
35-36.5822-103.4794-2-11-						0-N06577	61780	-0.08	742	13970	95	-77	14.9	71	5.7	6	1.8	36220	13.9	19720	42	0.6
35-36.8442-103.8475-2-11-						0-N06592	62330	-0.08	512	8737	115	-75	17.1	84	6.5	6	2.4	40480	13.7	15780	62	0.8
35-36.3000-103.4406-2-11-						0-N06602	42380	-0.05	602	8547	39	-62	3.8	18	2.3	3	0.9	10590	6.7	16620	12	0.3
35-36.2894-103.4403-2-11-						0-N06603	44650	-0.07	597	34670	78	154	9.7	59	3.9	6	1.3	20130	14.3	13680	39	0.5
35-36.2725-103.4242-2-11-						0-N06604	48660	-0.08	628	5717	61	-54	4.7	37	2.9	5	1.0	15000	13.1	12270	26	0.4
35-36.2597-103.4142-2-15-						0-N06605	40050	-0.08	433	8319	58	-63	6.4	38	3.4	4	1.3	19980	21.6	17340	25	0.6
35-36.2711-103.4467-2-11-						0-N06606	33560	-0.07	494	54190	40	125	4.7	25	2.1	3	0.8	15250	11.1	13520	12	0.4
35-36.7436-103.2236-2-12-						0-N06624	63910	-0.09	604	11790	81	-78	9.6	58	4.4	7	1.5	27280	11.0	24070	42	0.5
35-36.7933-103.7947-2-15-						0-N06631	73580	-0.10	616	18960	105	-73	12.2	66	4.5	7	1.9	31570	8.8	16980	51	0.5
35-36.6969-103.2378-2-12-						0-N06636	24030	-0.05	422	7673	45	-52	4.4	34	-0.7	4	0.9	19310	17.9	11280	27	0.4
35-36.6814-103.1031-2-11-						0-N06642	64240	-0.09	821	52520	64	-95	6.1	38	3.6	7	1.1	18550	15.3	22720	29	0.5
35-36.6922-103.0628-2-12-						0-N06644	3922	-0.17	540	-1599	508	-126	39.8	412	-2.3	11	5.4	462100	261.4	-4380	274	4.3
35-36.6164-103.8705-2-15-						0-N06648	70490	-0.10	627	13140	81	-78	14.2	70	4.3	7	1.7	35150	8.6	18290	53	0.4
35-36.5994-103.8553-2-15-						0-N06649	71930	-0.13	662	13940	95	-77	19.4	97	5.4	6	2.0	42940	9.8	19800	53	0.5
35-36.5739-103.8472-2-15-						0-N06650	60110	-0.10	671	13960	83	-82	13.5	75	4.3	6	1.7	34710	10.2	20690	41	0.4
35-36.5753-103.8678-2-15-						0-N06651	62610	-0.09	610	11700	74	-79	11.8	57	4.3	6	1.6	29220	11.3	21690	45	0.5
35-36.5311-103.8486-2-15-						0-N06655	57400	-0.09	643	8546	79	-65	6.9	46	3.5	5	1.4	22610	14.8	19280	42	0.5
35-36.5081-103.8381-2-15-						0-N06657	61050	-0.11	632	6579	91	-63	10.2	61	4.0	6	1.6	29310	14.6	19720	40	0.6
35-36.5161-103.8172-2-15-						0-N06658	65220	-0.10	645	13290	85	-74	11.2	57	4.8	6	1.5	30530	11.9	17370	36	0.5
35-36.5275-103.8272-2-15-						0-N06659	51340	-0.08	645	29990	57	-77	7.6	30	2.8	6	1.2	20000	12.0	16120	27	0.5
35-36.5053-103.7839-2-15-						0-N06661	55010	-0.11	635	19500	90	-74	9.5	59	3.9	5	1.5	27300	10.9	18050	39	0.5
35-36.5908-103.7519-2-15-						0-N06664	62850	-0.10	620	10280	77	-84	13.0	62	4.3	6	1.4	32180	9.9	18620	44	0.5
35-36.7089-103.2914-2-12-						0-N06669	27510	-0.10	611	10940	135	-68	8.3	119	-1.3	11	2.4	54670	111.9	10720	62	1.9
35-36.7283-103.1428-2-15-						0-N06672	41370	-0.07	681	25590	42	-56	4.2	32	2.6	4	1.0	14150	11.1	16920	-5	0.4
35-36.7425-103.3061-2-15-						0-N06678	42880	-0.08	644	27810	61	-80	6.9	54	1.4	6	1.5	35960	25.1	16950	30	0.8
35-36.3867-103.1079-2-15-						0-N06684	44420	-0.08	526	67100	53	-66	4.4	35	2.3	4	1.0	16230	13.6	16240	20	0.5
35-36.6575-103.6397-2-11-						0-N06709	56300	-0.10	743	7639	86	-87	12.3	55	4.7	6	1.8	33430	12.4	21310	49	0.6
35-36.5497-103.7653-2-15-						0-N06718	63900	-0.13	637	7123	105	-89	15.1	73	5.8	6	1.9	36390	13.6	17430	53	0.6
35-36.6100-103.8311-2-15-						0-N06720	63890	-0.11	684	22910	96	-82	13.2	90	4.8	6	1.6	31150	9.7	15630	40	0.4
35-36.6203-103.7842-2-15-						0-N06722	75570	-0.12	509	8722	115	-64	13.9	77	6.0	6	1.7	40400	6.8	21140	39	0.6

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	
35-36.7742-103.5472-2-12-						0-N06498	8582	318	7780	-22	-1	8.9	6.0	377	-1	-1	13.6	3390	46	4.7	73	0.235
35-36.7747-103.5489-2-12-						0-N06499	6503	163	7156	54	-1	4.4	4.2	317	-1	-1	7.0	2261	48	1.9	21	0.329
35-36.7939-103.5331-2-15-						0-N06499	12050	384	6183	69	-2	7.9	8.1	-209	-1	-1	12.5	3518	64	4.2	61	0.288
35-36.7747-103.7111-2-11-						0-N06499	11350	490	6754	86	-2	9.2	6.0	-199	-1	-1	12.5	3893	68	4.8	65	0.256
35-36.5108-103.1147-2-12-						0-N06500	15250	504	7187	79	-1	9.2	6.5	-215	-1	-1	12.1	3595	80	4.0	99	0.248
35-36.5561-103.0550-2-15-						0-N06500	14550	345	7710	65	-1	6.8	5.4	-215	1	-1	9.5	3079	77	3.6	96	0.284
35-36.5547-103.0036-2-15-						0-N06501	-2468	540	8583	40	-1	7.0	4.8	-216	-1	1	7.0	3764	51	7.4	29	0.486
35-36.5114-103.2806-2-15-						0-N06502	11870	520	7565	91	-2	9.7	7.1	-223	-1	-1	12.4	4284	83	4.7	67	0.242
35-36.5111-103.3286-2-12-						0-N06503	14300	499	8110	58	-2	9.2	6.6	-262	-1	-1	12.4	4407	82	4.5	79	0.242
35-36.5589-103.3439-2-12-						0-N06504	15830	586	7560	113	-2	13.8	8.1	-250	-1	-1	16.2	4477	90	3.6	140	0.173
35-36.4228-103.2564-2-15-						0-N06540	13360	400	6814	90	-2	12.0	7.6	344	-1	-1	15.5	3164	68	5.5	128	0.168
35-36.4289-103.3461-2-15-						0-N06542	5713	499	10590	60	-1	7.0	6.0	-205	-1	-1	11.3	4209	57	5.3	55	0.327
35-36.4369-103.3500-2-12-						0-N06543	9790	397	8707	43	-1	6.4	5.2	-221	-1	-1	9.3	3685	62	3.7	38	0.323
35-36.4072-103.4000-2-15-						0-N06548	15530	417	6505	142	-2	12.7	7.9	-206	-1	1	15.8	3850	82	5.4	125	0.177
35-36.3867-103.4147-2-15-						0-N06550	10070	307	9055	77	-1	8.9	5.4	-177	-1		11.3	3313	62	4.9	71	0.239
35-36.4114-103.4514-2-15-						0-N06554	4503	395	10960	43	-1	6.8	4.9	-184	1	-1	9.0	2998	56	4.6	84	0.333
35-36.4772-103.4883-2-15-						0-N06558	11980	294	7625	40	-1	5.5	5.0	344	-1	-1	8.8	2790	63	3.3	41	0.307
35-36.4897-103.4889-2-15-						0-N06559	11460	737	7574	102	-2	12.5	8.7	-253	-1	-1	16.4	3991	75	4.4	114	0.195
35-36.4947-103.3944-2-15-						0-N06561	18470	530	6212	145	-2	15.2	8.7	-221	1	-1	16.8	4294	83	6.0	159	0.167
35-36.5969-103.4558-2-12-						0-N06570	10120	474	9130	55	-1	7.8	6.1	-209	1	-1	11.2	3651	63	4.5	69	0.321
35-36.5708-103.4883-2-15-						0-N06574	11270	605	8959	58	-2	9.7	6.8	-276	-1	-1	13.6	4027	85	4.6	77	0.221
35-36.5322-103.4704-2-11-						0-N06577	12480	633	9288	100	-2	11.8	6.8	-269	-1	-1	13.0	4100	76	5.8	102	0.238
35-36.8442-103.8475-2-11-						0-N06582	10690	544	7439	116	-2	14.4	9.3	-229	2	-1	18.2	4485	79	6.9	120	0.181
35-36.3000-103.4406-2-11-						0-N06583	4985	194	10580	40	-1	3.0	3.1	-169	-1		5.3	1838	34	2.6	-40	0.302
35-36.2894-103.4403-2-11-						0-N06583	12040	311	5493	-23	-2	8.3	6.2	-212	-1	-1	12.4	3817	53	4.8	72	0.242
35-36.2725-103.4242-2-11-						0-N06584	6649	203	5717	47	-2	5.5	4.9	-188	-1	-1	9.2	4017	49	3.2	-42	0.348
35-36.2597-103.4142-2-15-						0-N06585	-2240	310	8347	56	-2	6.6	5.1	-164	-1	1	10.2	2828	45	5.1	50	0.284
35-36.2711-103.4467-2-11-						0-N06604	7854	451	7482	-18	-2	4.0	3.2	551	-1	-1	6.8	2115	32	2.9	65	0.279
35-36.7436-103.2236-2-12-						0-N06634	14460	523	7286	84	-2	9.4	6.4	-226	-1	1	12.7	3700	76	4.6	99	0.260
35-36.7933-103.7947-2-15-						0-N06631	17190	440	6730	66	-2	11.1	7.9	-220	-1	-1	18.2	4454	84	4.9	110	0.231
35-36.6969-103.2378-2-12-						0-N06636	-1811	305	5776	29	-1	3.6	4.9	-142	-1		8.3	2549	42	3.6	33	0.349
35-36.6814-103.1031-2-11-						0-N06642	12090	404	12430	47	-2	5.6	4.5	-284	-1	-1	8.5	4490	106	5.1	76	0.471
35-36.6922-103.0628-2-12-						0-N06644	-4436	1932	561	-53	-4	23.5	38.9	-350	34	4	107.2	14030	483	32.7	-54	0.254
35-36.6164-103.8706-2-15-						0-N06648	15520	502	9128	73	-2	11.7	8.1	-227	-1	-1	12.7	4184	86	4.9	91	0.236
35-36.5994-103.8553-2-15-						0-N06649	15200	470	8851	88	-3	14.4	7.9	-283	-1	-1	15.5	4555	91	4.9	137	0.187
35-36.5739-103.8472-2-15-						0-N06650	14050	532	8745	73	-2	11.5	-0.9	-229	-1	-1	12.5	4674	81	4.8	90	0.232
35-36.5753-103.8678-2-15-						0-N06651	12920	560	9544	60	-2	9.6	6.0	-224	-1	1	11.2	4371	72	3.9	125	0.277
35-36.5311-103.8486-2-15-						0-N06655	7994	414	9330	50	-2	7.7	5.7	-217	1	-1	10.2	3498	69	4.6		0.314
35-36.5081-103.8381-2-15-						0-N06657	9348	354	8900	88	-3	10.2	7.3	-201	2	-1	13.7	3941	68	5.2	93	0.241
35-36.5161-103.8172-2-15-						0-N06658	11330	480	7588	94	-2	10.3	6.8	-220	-1	-1	13.3	4145	73	4.7	101	0.233
35-36.5275-103.8272-2-15-						0-N06659	7974	343	10270	54	-2	6.6	5.7	-183	1	-1	9.5	2805	58	4.0	-58	0.295
35-36.5053-103.7839-2-15-						0-N06661	12650	440	8374	73	-3	9.1	6.6	-249	-1	-1	11.9	4298	78	4.0	70	0.252
35-36.5908-103.7519-2-15-						0-N06666	12190	447	8623	79	-2	10.6	6.5	-253	-1	-1	12.1	4131	78	4.4	108	0.240
35-36.7089-103.2014-2-12-						0-N06669	5769	550	6014	-26	-2	9.2	12.7	-223	-1	2	25.8	7412	114	15.4	61	0.407
35-36.7283-103.1428-2-15-						0-N06672	6180	243	8150	39	-2	4.7	3.4	-162	-1	1	6.0	2701	45	2.7	-20	0.383
35-36.7425-103.3061-2-15-						0-N06678	5783	533	10430	49	-2	6.3	6.1	-214	2	-1	9.9	5325	91	6.7	42	0.424
35-36.3867-103.1078-2-15-						0-N06684	10250	203	7573	-13	-2	5.3	4.1	-201	-1	-1	7.3	2896	49	3.6	-22	0.342
35-36.6675-103.6397-2-11-						0-N06709	11930	597	8747	71	-2	11.1	7.6	-252	-1	-1	13.8	4758	77	4.8	85	0.217
35-36.5497-103.7653-2-15-						0-N06719	12920	507	9122	86	-3	12.2	8.3	-265	-1	-1	14.7	4608	82	5.1	91	0.211
35-36.6100-103.9311-2-15-						0-N06720	13050	556	7897	78	-3	10.4	6.7	-251	-1	1	11.4	4263	86	5.0	-40	0.246
35-36.6203-103.7842-2-15-						0-N06722	14060	521	6333	59	-3	13.0	9.0	-246	-1	-1	15.3	4633	91	3.3	144	0.190

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	SOIL/ASH 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
35-36.7544-103.6483-2-12-						0-N06734-10/03/76-11-										-1-1-5-5-1-2-3-1-4-3-3-1-												-3-	-	-	-	-	3.90
35-36.7528-103.0789-2-15-						0-N06735-10/03/76-14-		22-	-	-	-		-	-		-1- -5-5- -1- -1-4-3-2-1-												-3-	-	-	-	-	4.70
35-36.7594-103.0625-2-15-						0-N06736-10/03/76-15-		22-	-	-	-		-	-		-1-4-4-1- -1- -1-2-3-3-1-												-3-	-	-	-	-	2.70
35-36.7686-103.0894-2-12-						0-N06737-10/03/76-15-		20-13.5-	-	-	-		8.2-	290-		-1-4-5-5-1-2-2- -2-3-3-1-												-3-	-	-	-	-	3.40
35-36.7778-103.1119-2-11-						0-N06738-10/03/76-16-		20-22.1-	-	-	-		7.4-	2850-		-1-4-5-5-1-2-2-1- -2-3-3-1-												-3-	-	-	-	-	5.40
35-36.7614-103.1417-2-12-						0-N06733-10/04/76-11-		5-17.1-	-	-	-		7.9-	115-		-1-1-5-5-1-2-4-1-4-3-3-4-												-3-	-	-	-	-	3.30
35-36.7722-103.1254-2-11-						0-N06734-10/04/76-11-		5-16.1-	-	-	-		8.0-	155-		-1-4-5-6-2-2-3- -4-3-3-4-												-3-	-	-	-	-	2.80
35-36.8006-103.1733-2-15-						0-N06738-10/04/76-13-		7-	-	-	-		-	-		-1-4-4-6- -1- -1-4-3-3-3-												-3-	-	-	-	-	2.80
35-36.4433-103.2481-2-11-						0-N06739-10/03/76-11-		22-20.3-	-	-	-		7.9-	500-		-1-1-5-8-2-2-1- -4-3-2-3-												-3-	-	-	-	-	2.90
35-36.4433-103.3167-2-12-						0-N06740-10/03/76-11-		22-17.9-	-	-	-		8.0-	135-		-1-1-5-6-2-2-2-2-4-3-2-3-												-3-	-	-	-	-	3.50
35-36.4944-103.3425-2-12-						0-N06741-10/03/76-11-		22-19.1-	-	-	-		8.3-	95-		-3-8-4-6-1-2-2-2-4-3-2-3-												-3-	-	-	-	-	3.30
35-36.4672-103.3558-2-15-						0-N06742-10/03/76-12-		22-	-	-	-		-	-		-3-8-4-6- -1- -2-4-3-2-3-												-3-	-	-	-	-	6.30
35-36.4553-103.2913-2-11-						0-N06744-10/03/76-14-		21-	-	-	-		-	-		-1-3-7-7- - - - -4-3-2-3-												-1-	-	-	-	-	2.50
35-36.4531-103.2858-2-15-						0-N06745-10/03/76-14-		20-	-	-	-		-	-		-1-3-4-6- -1- -1-4-3-2-4-												-3-	-	-	-	-	3.30
35-36.4947-103.3231-2-15-						0-N06750-10/03/76-13-		16-	-	-	-		-	-		-3-8-4-6- -1- -1-4-3-2-2-												-3-	-	-	-	-	2.20
35-36.4656-103.4536-2-11-						0-N06756-10/03/76-13-		26-10.3-	-	-	-		8.9-	440-		-1-1-6-8-2-2-1- -5-3-3-1-												-3-	-	-	-	-	2.30
35-36.4655-103.4392-2-15-						0-N06757-10/03/76-15-		26-	-	-	-		-	-		-3-8-4-6- -1- -2-4-3-3-1-												-3-	-	-	-	-	3.60
35-36.7397-103.3311-2-15-						0-N06759-10/03/76-19-		20-	-	-	-		-	-		7-1-1-4-6- -1- -2-4-4-3-1-												-	-	-	-	-	4.10
35-36.7219-103.3050-2-15-						0-N06760-10/03/76-19-		19-	-	-	-		-	-		19-1-1-4-1- -1- -2-4-3-2-1-												-	-	-	-	-	2.90
35-36.7019-103.3103-2-15-						0-N06761-10/03/76-19-		19-	-	-	-		-	-		11-1-2-4-1- -1- -2-4-2-3-1-												-	-	-	-	-	11.90
35-36.6889-103.3083-2-15-						0-N06762-10/03/76-19-		19-	-	-	-		-	-		9-1-1-4-1- -1- - -4-3-3-1-												-	-	-	-	-	3.10
35-36.7167-103.2750-2-11-						0-N06767-10/05/76-17-		19-13.4-	-	-	-		7.9-	375-		9-1-1-4-6- - -1- -4-4-3-1-												-	-	-	-	-	3.10
35-36.7269-103.3155-2-15-						0-N06768-10/05/76-13-		19-	-	-	-		-	-		6-1-6-5-6- -1- - -4-3-3-1-												-	-	-	-	-	3.50
35-36.6933-103.3516-2-15-						0-N06770-10/05/76-14-		18-	-	-	-		-	-		7-1-2-5-1- -1- -2-4-2-3-1-												-	-	-	-	-	3.40
35-36.6555-103.3553-2-15-						0-N06772-10/05/76-15-		16-	-	-	-		-	-		13-1-1-4-1- -1- - -4-3-3-1-												-	-	-	-	-	4.00
35-36.6944-103.2856-2-11-						0-N06775-10/05/76-16-		13-16.2-	-	-	-		7.9-	100-		14-1-2-5-6- - -1- -4-4-3-1-												-	-	-	-	-	3.60
35-36.5750-103.1278-2-15-						0-N06779-10/05/76-19-		15-	-	-	-		-	-		7-1-1-4-1- -1- - -4-2-3-1-												-	-	-	-	-	3.60
35-36.6228-103.2006-2-15-						0-N06781-10/05/76-13-		17-	-	-	-		-	-		10-1-1-5-6- -1- - -4-3-3-1-												-	-	-	-	-	3.20
35-36.5103-103.2431-2-15-						0-N06784-10/05/76-15-		13-	-	-	-		-	-		21-3-8-5-6- -1- -2-4-2-3-3-												-	-	-	-	-	2.80
35-36.5764-103.2006-2-15-						0-N06785-10/05/76-16-		10-	-	-	-		-	-		14-1-1-4-6- -1- -2-4-2-3-4-												-	-	-	-	-	2.50
35-36.5864-103.2296-2-15-						0-N06787-10/05/76-17-		10-	-	-	-		-	-		12-1-1-5-6- -1- -2-4-3-3-4-												-	-	-	-	-	2.80
48-36.3572-103.0300-2-15-						0-N06793-10/03/76-15-		30-	-	-	-		-	-		-1-1-4-1- -1- - -3-2-2-1- -1-												-	-	-	-	-	2.60
35-36.8403-103.9015-2-11-						0-N06953-10/05/76-14-		16-	-	-	-		-	-		9-3-8-5-8- - - - -4-3-2-3- -1-												-	-	-	-	-	2.80
35-36.7500-103.1105-2-11-						0-N06855-10/04/76-15-		8-14.6-	-	-	-		7.5-	470-		-1-4-5-6-2-2-1- -3-3-3-3-												-3-	-	-	-	-	2.30
35-36.7792-103.0011-2-15-						0-N06872-10/04/76-16-		6-	-	-	-		-	-		-1- -5-6- -1- - -4-3-2-3-												-3-	-	-	-	-	3.10
35-36.8411-103.0255-2-12-						0-N06875-10/04/76-17-		7-14.5-	-	-	-		7.8-	390-		-1-4-5-6-1-2-2-1-3-3-3-3-												-3-	-	-	-	-	2.90
35-36.3575-103.0147-2-15-						0-N06876-10/04/76-18-		6-	-	-	-		-	-		-1-4-5-7- -1- -1-3-3-3-3-												-3-	-	-	-	-	2.40
35-36.4722-103.0423-2-12-						0-N06877-10/05/76-11-		22-14.9-	-	-	-		8.3-	290-		-1-1-5-1-1-2-1-1-4-3-3-1-												-3-	-	-	-	-	3.80
35-36.8585-103.0544-2-15-						0-N06878-10/05/76-11-		23-	-	-	-		-	-		-1-4-4-1- -1- -1-4-3-3-1-												-3-	-	-	-	-	2.90
35-36.3697-103.1031-2-15-						0-N06879-10/05/76-14-		22-	-	-	-		-	-		-1-4-5-7- -1- -1-4-3-3-1-												-3-	-	-	-	-	2.60
35-36.3511-103.1156-2-15-						0-N06880-10/05/76-14-		22-	-	-	-		-	-		-1-4-5-6- -1- -1-4-3-3-1-												-3-	-	-	-	-	3.00
35-36.3596-103.1394-2-15-						0-N06881-10/05/76-14-		22-	-	-	-		-	-		-1-4-5-7- -1- -1-4-3-3-1-												-3-	-	-	-	-	4.10
35-36.3558-103.1597-2-15-						0-N06882-10/05/76-15-		21-	-	-	-		-	-		-1-4-5-7- -1- -1-4-3-3-1-												-3-	-	-	-	-	3.70
35-36.3342-103.2000-2-15-						0-N06885-10/05/76-15-		19-	-	-	-		-	-		-1-4-5-7- -1- -1-4-3-3-1-												-3-	-	-	-	-	2.50
35-36.3356-103.1997-2-15-						0-N06886-10/05/76-14-		19-	-	-	-		-	-		-1-3-5-4- -1- -1-4-3-3-1-												-3-	-	-	-	-	2.60
35-36.3378-103.1911-2-15-						0-N06887-10/05/76-14-		19-	-	-	-		-	-		-1-3-5-7- -1- -1-4-3-3-2-												-3-	-	-	-	-	2.70
35-36.3358-103.1776-2-15-						0-N06888-10/05/76-14-		20-	-	-	-		-	-		-1-3-5-7- -1- -1-4-3-3-2-												-3-	-	-	-	-	3.10
35-36.9100-103.0703-2-15-						0-N06890-10/05/76-17-		17-	-	-	-		-	-		-1-4-5-1- -1- -1-4-3-4-2-												-3-	-	-	-	-	3.30
35-36.9853-103.0456-2-11-						0-N06896-10/06/76-11-		12- 6.2-	-	-	-		8.1-	140-		-1-3-5-6-1-2-1- -4-3-3-3-												-3-	-	-	-	-	3.40
35-36.7539-103.253_-2-15-						0-N06902-10/04/76-10-		8-	-	-	-		-	-		-1-1-5-6- -1- -2-4-3-2-4-												-3-	-	-	-	-	2.80
35-36.8081-103.3475-2-11-						0-N06911-10/04/76-14-		11-11.8-	-	-	-		7.8-	700-		-1-1-5-6-2-2-1- -2-3-2-3-												-3-	-	-	-	-	4.70

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
35-36.7644-103.0489-2-12-						0-N06734	-5	-5	-5	24	-20	-15	-5	-10	-15	3	36
35-36.7528-103.0789-2-15-						0-N06735	-5	-5	-5	31	-20	17	-5	-10	-15	3	35
35-36.7694-103.0525-2-15-						0-N06736	-5	-5	-5	26	-20	-15	-5	-10	-15	2	21
35-36.7585-103.0894-2-12-						0-N06737	-5	6	-5	24	-20	-15	-5	-10	-15	2	18
35-36.7778-103.1119-2-11-						0-N06738	-5	5	-5	32	-20	26	7	-10	-15	3	31
35-36.7514-103.1417-2-12-						0-N06739	-5	6	-5	22	-20	-15	-5	-10	-15	2	22
35-36.7722-103.1256-2-11-						0-N06740	-5	6	-5	15	-20	-15	8	-10	-15	2	17
35-36.8006-103.1733-2-15-						0-N06741	-5	-5	-5	41	-20	16	10	-10	-15	3	31
35-36.4433-103.2681-2-11-						0-N06742	-5	-5	-5	17	-20	-15	-5	-10	-15	2	23
35-36.4433-103.3167-2-12-						0-N06743	-5	6	-5	27	-20	-15	5	-10	-15	3	34
35-36.4544-103.3425-2-12-						0-N06744	-5	-5	-5	30	-20	20	9	-10	-15	1	48
35-36.4672-103.3558-2-15-						0-N06745	-5	6	-5	29	-20	46	9	-10	-15	2	37
35-36.4553-103.2919-2-11-						0-N06746	-5	6	-5	23	-20	-15	6	-10	-15	-1	81
35-36.4531-103.2858-2-15-						0-N06747	-5	-5	-5	23	-20	-15	-5	-10	-15	2	20
35-36.4947-103.3231-2-15-						0-N06750	-5	-5	-5	26	-20	-15	-5	-10	-15	-1	35
35-36.4656-103.4536-2-11-						0-N06754	-5	5	-5	-10	-20	-15	10	-10	-15	2	16
35-36.4656-103.4392-2-15-						0-N06757	-5	6	-5	17	-20	-15	9	-10	-15	3	31
35-36.7397-103.3311-2-15-						0-N06760	-5	6	-5	28	-20	62	7	-10	-15	2	28
35-36.7219-103.3056-2-15-						0-N06760	-5	-5	-5	22	-20	-15	8	-10	-15	2	34
35-36.7019-103.3103-2-15-						0-N06761											
35-36.6989-103.3083-2-15-						0-N06762	-5	6	-5	27	-20	-15	10	-10	-15	1	36
35-36.7167-103.2750-2-11-						0-N06767	-5	-5	-5	27	-20	-15	9	-10	-15	-1	31
35-36.7269-103.3158-2-15-						0-N06769	-5	-5	-5	27	-20	-15	-5	-10	-15	2	33
35-36.6933-103.3514-2-15-						0-N06770	-5	-5	-5	13	-20	-15	6	-10	-15	-1	27
35-36.6558-103.3553-2-15-						0-N06772	-5	-5	-5	20	-20	-15	9	-10	-15	3	28
35-36.6944-103.2856-2-11-						0-N06775	-5	-5	-5	17	-20	-15	-5	-10	-15	-1	26
35-36.5750-103.1278-2-15-						0-N06779	-5	5	-5	15	-20	-15	8	-10	-15	2	19
35-36.6228-103.2006-2-15-						0-N06781	-5	-5	-5	19	-20	-15	-5	-10	-15	3	39
35-36.5103-103.2431-2-15-						0-N06784	-5	-5	-5	31	-20	32	11	-10	-15	2	42
35-36.5764-103.2005-2-15-						0-N06786	-5	-5	-5	25	-20	19	-5	-10	-15	2	27
35-36.5354-103.2294-2-15-						0-N06787	-5	-5	-5	25	-20	-15	7	-10	-15	2	24
48-36.3572-103.0300-2-15-						0-N06791	-5	6	-5	22	-20	-15	-5	-10	-15	2	15
35-36.8403-103.9019-2-11-						0-N06853	-5	-5	-5	32	-20	20	6	-10	-15	2	28
35-36.7600-103.1108-2-11-						0-N06864	-5	-5	-5	20	-20	-15	-5	-10	-15	1	8
35-36.7792-103.0011-2-15-						0-N06873	-5	-5	-5	24	-20	18	11	-10	-15	2	27
35-36.8411-103.0258-2-12-						0-N06875	-5	6	-5	23	-20	19	-5	-10	-15	2	17
35-36.8575-103.0147-2-15-						0-N06876	-5	-5	-5	17	-20	-15	5	-10	-15	2	19
35-36.8722-103.0422-2-12-						0-N06877	-5	5	-5	20	-20	-15	9	-10	-15	2	37
35-36.8589-103.0644-2-15-						0-N06878	-5	-5	-5	33	-20	-15	-5	-10	-15	2	33
35-36.8697-103.1031-2-15-						0-N06879	-5	6	-5	25	-20	-15	6	-10	-15	2	27
35-36.8511-103.1159-2-15-						0-N06880	-5	-5	-5	19	-20	-15	-5	-10	-15	2	23
35-36.8586-103.1394-2-15-						0-N06881	-5	-5	-5	17	-20	-15	-5	-10	-15	2	16
35-36.8558-103.1537-2-15-						0-N06882	-5	-5	-5	18	-20	-15	-5	-10	-15	2	21
35-36.8342-103.2000-2-15-						0-N06885	-5	6	-5	17	-20	-15	6	-10	-15	-1	14
35-36.8356-103.1997-2-15-						0-N06886	-5	5	-5	22	-20	-15	-5	-10	-15	2	15
35-36.8378-103.1911-2-15-						0-N06887	-5	-5	-5	28	-20	-15	9	-10	-15	-1	25
35-36.8358-103.1775-2-15-						0-N06888	-5	-5	-5	28	-20	-15	9	-10	-15	2	19
35-36.9100-103.0703-2-15-						0-N06890	-5	-5	-5	26	-20	-15	-5	-10	-15	2	28
35-36.9853-103.0456-2-11-						0-N06895	-5	6	-5	21	-20	-15	7	-10	-15	2	30
35-36.7539-103.2531-2-15-						0-N06902	-5	-5	-5	32	-20	15	7	-10	-15	3	59
35-36.8081-103.3475-2-11-						0-N06911	-5	7	-5	26	-20	19	5	-10	-15	1	85

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
35-36.7644-103.0499-2-12-						0-N06724	62740	-0.13	531	30700	94	-63	10.8	61	6.2	6	1.7	30860	11.8	13820	61	0.6
35-36.7528-103.0789-2-15-						0-N06725	64330	-0.14	636	33370	117	-102	12.3	75	5.7	9	2.1	34270	16.1	25560	72	0.7
35-36.7694-103.0625-2-15-						0-N06726	30820	-0.09	344	6813	58	-50	5.3	37	2.6	4	0.9	15470	13.1	12590	-6	0.4
35-36.7686-103.0896-2-12-						0-N06727	40300	-0.11	459	10370	81	-58	7.8	52	3.5	5	1.3	20450	19.7	10540	52	0.6
35-36.7778-103.1119-2-11-						0-N06728	60990	-0.10	333	2062	84	-41	8.8	55	5.0	7	1.5	23890	12.0	13990	43	0.5
35-36.7614-103.1417-2-12-						0-N06733	44650	-0.09	383	9187	56	-57	6.8	45	3.3	6	1.2	18480	16.1	11710	30	0.5
35-36.7722-103.1256-2-11-						0-N06734	30700	-0.08	358	7352	65	-46	5.3	33	2.7	5	1.0	14910	12.3	9909	26	0.4
35-36.8006-103.1735-2-15-						0-N06738	61700	-0.12	703	33060	79	-75	12.4	64	6.0	6	1.7	32560	12.6	20590	49	0.7
35-36.4433-103.2681-2-11-						0-N06739	31020	-0.08	538	154400	37	-99	7.0	43	-1.3	3	0.9	23590	6.1	7877	18	0.3
35-36.4433-103.3167-2-12-						0-N06740	53300	-0.10	567	24080	79	-72	8.8	55	4.0	6	1.3	26140	15.4	16850	33	0.6
35-36.4544-103.3425-2-12-						0-N06741	60580	-0.14	633	18390	91	-88	13.4	80	5.6	6	1.8	36870	14.2	22040	58	0.6
35-36.4572-103.3559-2-15-						0-N06742	43500	-0.10	579	24460	130	-83	13.1	122	3.7	8	1.9	52110	51.4	19430	66	1.1
35-36.4553-103.2919-2-11-						0-N06744	73450	-0.12	910	120000	83	-57	5.7	61	5.5	6	1.5	18410	5.2	13760	32	0.3
35-36.4531-103.2858-2-15-						0-N06745	45940	-0.09	638	34350	63	-79	7.1	46	3.3	5	0.9	23850	20.7	16760	33	0.6
35-36.4947-103.3231-2-15-						0-N06750	46020	-0.08	617	100900	50	-80	7.3	39	2.6	4	1.0	18330	7.7	13860	31	0.3
35-36.4656-103.4536-2-11-						0-N06756	40120	-0.05	547	45980	36	-79	3.0	22	2.3	4	0.9	11440	10.8	17970	24	0.4
35-36.4656-103.4392-2-15-						0-N06757	54500	-0.09	500	27040	76	-66	8.4	50	3.6	7	1.4	28290	11.2	13700	44	0.5
35-36.7397-103.3311-2-15-						0-N06759	47740	-0.09	600	13470	85	-68	7.2	51	2.7	6	1.4	25420	22.0	15390	31	0.7
35-36.7219-103.3050-2-15-						0-N06760	55820	-0.11	695	24520	79	-68	8.8	47	3.8	5	1.6	28720	13.2	16680	47	0.6
35-36.7019-103.3103-2-15-						0-N06761	30370	-0.20	830	14500	84	-127	10.9	156	-2.8	10	1.9	76180	66.7	10840	-14	1.8
35-36.6889-103.3083-2-15-						0-N06762	55300	-0.08	459	23150	85	-72	7.9	48	3.7	5	1.5	21920	10.7	17640	35	0.4
35-36.7167-103.2750-2-11-						0-N06767	47240	-0.08	772	37470	64	-83	8.9	58	2.9	5	1.4	26610	15.1	16460	27	0.4
35-36.7269-103.3158-2-15-						0-N06768	51970	-0.09	614	10730	83	-68	7.8	48	3.6	6	1.4	25970	16.9	16460	33	0.6
35-36.6933-103.3514-2-15-						0-N06770	56500	-0.11	481	4836	89	-54	9.2	53	4.4	6	1.6	22610	17.6	15300	46	0.6
35-36.6558-103.3553-2-15-						0-N06772	62730	-0.09	562	23080	93	-85	8.6	59	3.4	7	1.4	28720	23.2	15180	31	0.6
35-36.6944-103.2856-2-15-						0-N06775	41510	-0.08	380	12710	70	-65	6.4	47	2.8	6	1.3	16420	17.6	12450	39	0.5
35-36.5750-103.1278-2-15-						0-N06779	38230	-0.08	423	13250	64	-64	4.6	44	-1.1	5	1.2	23200	22.7	15420	28	0.7
35-36.6228-103.2006-2-15-						0-N06781	55340	-0.12	428	13750	92	-77	11.0	61	4.2	6	1.8	33640	14.8	22820	41	0.7
35-36.5103-103.2431-2-15-						0-N06784	60700	-0.11	654	25430	88	-84	11.3	80	3.5	6	1.7	30610	9.1	16300	43	0.5
35-36.5764-103.2006-2-15-						0-N06786	41610	-0.07	583	36880	45	-63	4.5	30	2.8	4	1.1	14040	7.8	12290	26	0.3
35-36.5864-103.2294-2-15-						0-N06787	38520	-0.07	466	18430	55	185	4.9	31	1.4	4	1.0	13840	11.9	13630	22	0.4
48-36.3572-103.0300-2-15-						0-N06793	33350	-0.08	264	7736	59	-35	6.8	29	-1.1	4	1.0	17250	13.6	7330	32	0.4
35-36.8403-103.9019-2-11-						0-N06853	43740	-0.11	435	9949	80	136	11.5	57	3.6	4	1.4	27720	11.6	16930	35	0.5
35-36.7600-103.1108-2-11-						0-N06866	24020	-0.06	212	2277	44	68	3.9	29	1.3	4	0.7	9720	15.4	5870	28	0.4
35-36.7792-103.0011-2-15-						0-N06872	50820	-0.08	695	5674	70	-72	7.9	44	3.0	5	1.3	22430	15.8	18720	33	0.5
35-36.8411-103.0258-2-12-						0-N06875	32830	-0.08	335	7045	58	-52	5.9	35	-1.1	5	1.1	16200	16.9	10450	26	0.5
35-36.8575-103.0147-2-15-						0-N06876	38080	-0.06	418	7179	52	-52	4.6	25	1.9	4	1.0	13470	9.4	12250	26	0.3
35-36.8722-103.0422-2-12-						0-N06877	50940	-0.11	596	22430	87	-64	8.9	52	3.9	5	1.7	25220	16.8	16270	49	0.7
35-36.8589-103.0644-2-15-						0-N06878	41000	-0.07	413	13730	51	-54	5.2	37	2.3	4	1.1	14150	15.4	15960	27	0.4
35-36.8697-103.1031-2-15-						0-N06879	35740	-0.06	477	26710	37	-55	3.6	32	2.3	4	0.9	12090	8.9	17000	29	0.3
35-36.8511-103.1158-2-15-						0-N06880	42170	-0.09	456	14950	62	-47	6.6	32	3.3	5	1.2	18970	9.8	13980	39	0.5
35-36.8586-103.1394-2-15-						0-N06881	44780	-0.07	469	25410	57	-55	5.2	29	2.1	5	1.2	16050	9.4	14720	28	0.5
35-36.8558-103.1597-2-15-						0-N06882	37470	-0.06	432	20990	41	-50	3.7	22	2.4	4	0.6	11480	10.3	15020	22	0.3
35-36.8342-103.2000-2-15-						0-N06885	34650	-0.07	393	5442	57	-37	5.0	33	2.0	4	1.0	13740	11.8	9661	22	0.4
35-36.8356-103.1997-2-15-						0-N06886	33290	-0.08	317	8478	58	-44	5.4	41	3.2	3	1.2	19380	26.9	10520	34	0.6
35-36.8378-103.1911-2-15-						0-N06887	40340	-0.07	447	6831	72	-57	5.8	35	3.4	5	1.3	17100	10.5	18440	36	0.5
35-36.8358-103.1775-2-15-						0-N06888	40740	-0.07	343	8254	66	-50	6.1	34	1.3	5	1.0	17220	14.3	11640	30	0.5
35-36.9100-103.0708-2-15-						0-N06890	41210	-0.07	585	33080	54	-56	4.9	31	2.4	4	1.0	14240	11.4	16840	25	0.4
35-36.9853-103.0456-2-11-						0-N06895	46530	-0.10	593	27720	68	-61	7.0	37	4.0	5	1.4	22800	10.9	17030	44	0.6
35-36.7539-103.2531-2-15-						0-N06899	45440	-0.09	671	19460	72	-84	9.3	48	6.2	5	1.6	27110	7.3	17600	40	0.4
35-36.8081-103.3475-2-11-						0-N06911	60390	-0.09	826	53190	71	-73	7.5	48	3.1	5	1.0	24800	10.1	16190	40	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	
35-36.7644-103.0489-2-12-						0-N06734	11100	367	4110	79	-3	12.1	9.3	-183	-1	-1	16.5	4174	75	5.4	81	0.236
35-36.7528-103.0789-2-15-						0-N06735	17330	511	9130	-33	-3	12.3	9.1	-290	-1	-1	18.7	5438	98	6.5	89	0.251
35-36.7694-103.0625-2-15-						0-N06736	6426	285	4947	47	-2	5.3	4.8	-176	-1	-1	8.9	2929	45	3.1	44	0.303
35-36.7686-103.0894-2-12-						0-N06737	7119	284	5270	-27	-2	7.4	6.2	-193	-1	-1	12.1	3492	50	4.6	42	0.281
35-36.7778-103.1119-2-11-						0-N06738	10950	320	1833	50	-2	9.9	7.1	365	-1	-1	14.0	3740	67	3.8	53	0.386
35-36.7514-103.1417-2-12-						0-N06739	6497	305	4643	44	-2	5.6	5.9	-173	-1	1	10.6	3447	53	3.7		0.311
35-36.7722-103.1255-2-11-						0-N06740	4351	270	3951	-18	-2	5.2	4.9	-174	-1	-1	8.7	2865	50	3.7	-54	0.322
35-36.8006-103.1733-2-15-						0-N06741	15870	500	8810	92	-3	10.9	7.6	-253	-1	-1	13.7	4195	84	4.8	94	0.204
35-36.4433-103.2581-2-11-						0-N06742	15710	477	5093	-25	-2	4.8	3.1	824	-1	-1	5.4	2718	88	-1.3	-81	0.537
35-36.4433-103.3167-2-12-						0-N06743	11500	493	7731	45	-2	8.0	7.4	-256	-1	-1	12.0	4501	77	5.3	73	0.292
35-36.4544-103.3425-2-12-						0-N06744	13950	537	7522	93	-3	11.9	7.2	-271	-1	-1	15.0	3358	75	6.2	94	0.220
35-36.4672-103.3558-2-15-						0-N06745	11550	753	7805	-29	-2	10.2	9.7	-262	2	1	20.4	7481	150	8.7	61	0.309
35-36.4553-103.2919-2-11-						0-N06746	10130	259	1414	59	-3	10.8	6.8	-208	-1	-1	12.2	3860	88	4.1	-60	0.205
35-36.4531-103.2858-2-15-						0-N06747	5847	381	10430	75	-2	7.1	6.5	-196	-1	-1	11.0	3402	65	6.0	83	0.300
35-36.4947-103.3231-2-15-						0-N06750	10630	394	8094	-21	-2	6.0	3.4	-191	-1	1	7.1	2842	60	-1.2	54	0.310
35-36.4656-103.4536-2-11-						0-N06754	6741	255	11200	-17	-1	4.1	3.7	-182	-1	-1	5.5	2383	32	3.6	33	0.418
35-36.4656-103.4392-2-15-						0-N06757	9259	432	5007	71	-2	9.0	7.6	-206	-1	-1	12.2	3756	81	4.9	100	0.295
35-36.7397-103.3311-2-15-						0-N06758	10350	443	8589	62	-2	5.6	5.7	-227	-1	-1	12.0	4397	69	5.5	45	0.342
35-36.7219-103.3050-2-15-						0-N06760	10930	396	7743	75	-2	9.7	7.1	-231	-1	-1	12.8	3228	71	5.2	64	0.227
35-36.7019-103.3103-2-15-						0-N06761	-6264	1366	5467	-52	-5	9.0	5.4	-698	-2	-2	15.4	12550	197	13.4	-131	0.773
35-36.6889-103.3083-2-15-						0-N06762	11630	360	7102	59	-2	7.9	5.8	-198	-1	-1	12.1	3969	64	4.6	56	0.256
35-36.7167-103.2750-2-11-						0-N06767	9109	451	8086	51	-2	6.7	5.7	-216	-1	-1	10.1	3733	71	4.0	54	0.307
35-36.7269-103.3158-2-15-						0-N06768	7240	460	8161	57	-2	7.3	5.5	-231	-1	-1	10.3	4784	72	4.7	-89	0.340
35-36.5933-103.3514-2-15-						0-N06771	8604	300	5745	64	-2	9.7	7.9	-184	-1	-1	14.7	4323	67	4.7	69	0.231
35-36.6558-103.3553-2-15-						0-N06772	10030	496	9523	71	-2	7.9	5.6	-232	-1	-1	11.3	4824	78	5.9	53	0.354
35-36.6944-103.2956-2-11-						0-N06775	8751	332	5615	43	-2	6.5	6.3	-139	-1	-1	11.3	3949	54	3.7	77	0.319
35-36.5750-103.1278-2-15-						0-N06779	5331	407	8729	55	-2	5.3	5.8	-204	-1	-1	9.2	3637	59	5.2	81	0.391
35-36.6228-103.2006-2-15-						0-N06781	9232	504	10030	104	-3	10.5	8.1	-266	-1	-1	14.5	4120	80	4.9	-55	0.221
35-36.5103-103.2431-2-15-						0-N06784	16720	529	7407	88	-3	9.9	5.7	-258	-1	-1	10.6	4074	73	3.1	-111	0.264
35-36.5764-103.2006-2-15-						0-N06786	15280	341	5082	60	-2	5.6	3.9	-179	-1	1	7.6	2195	42	2.4	35	0.329
35-36.5864-103.2294-2-15-						0-N06787	19690	335	9171	54	-2	4.8	4.1	389	-1	-1	7.1	2525	42	3.5	-38	0.394
48-36.3572-103.0300-2-15-						0-N06788	4705	194	2453	41	-2	5.6	5.2	-133	-1	-1	9.8	2866	50	3.5	-34	0.265
35-36.8403-103.9019-2-11-						0-N06953	11570	287	7380	85	-3	9.2	5.9	-206	-1	-1	11.4	3453	77	6.1	171	0.246
35-36.7600-103.1108-2-11-						0-N06954	2330	135	2400	-15	-1	3.6	2.8	-113	-1	-1	6.3	2396	32	2.9	29	0.365
35-36.7792-103.0011-2-15-						0-N06972	9115	440	7710	59	-2	6.8	6.2	-200	-1	-1	10.6	3105	66	4.3	55	0.292
35-36.8411-103.0258-2-12-						0-N06975	5316	211	4440	35	-2	5.9	5.3	-141	-1	-1	10.3	3028	35	4.7	28	0.282
35-36.8575-103.0147-2-15-						0-N06976	5113	223	4483	35	-1	4.9	4.0	-146	-1	-1	7.5	2788	37	3.5	54	0.320
35-36.8722-103.0422-2-12-						0-N06977	12930	345	6774	61	-2	8.8	7.2	-220	-1	-1	12.8	3957	55	4.8	64	0.297
35-36.8589-103.0644-2-15-						0-N06978	13230	340	6107	46	-2	5.9	3.7	445	-1	-1	7.8	2859	41	3.1	43	0.372
35-36.8697-103.1031-2-15-						0-N06979	11500	260	4391	44	-1	4.6	3.6	358	-1	-1	5.9	2141	33	3.1	-19	0.441
35-36.9511-103.1158-2-15-						0-N06980	8227	279	4617	53	-2	6.7	5.2	306	-1	-1	9.7	2619	42	3.7	59	0.309
35-36.8586-103.1304-2-15-						0-N06981	3700	287	4219	41	-2	6.0	5.3	-164	-1	-1	8.4	2770	45	4.5	-42	0.488
35-36.8558-103.1597-2-15-						0-N06982	3620	251	3303	52	-1	4.5	3.2	-146	-1		6.1	2332	30	2.8	53	0.607
35-36.8342-103.2000-2-15-						0-N06985	4477	193	2784	-15	-1	4.5	4.3	253	-1	-1	8.3	2946	37	3.0	62	0.301
35-36.8356-103.1997-2-15-						0-N06986	5213	222	2980	53	-2	5.9	5.7	-144	-1	1	10.1	2434	35	5.2	35	0.257
35-36.8378-103.1911-2-15-						0-N06987	3715	307	5320	54	-2	6.5	5.5	-176	-1	-1	9.4	3207	50	3.8	55	0.287
35-36.8358-103.1775-2-15-						0-N06988	7930	246	3302	41	-2	5.8	6.5	-148	-1	-1	9.9	3250	50	3.4	72	0.313
35-36.9100-103.0708-2-15-						0-N06989	13950	334	5559	69	-2	4.9	3.8	-195	-1	-1	6.9	2393	39	3.5	-30	0.478
35-36.9853-103.0456-2-11-						0-N06926	13280	323	3582	63	-2	8.1	6.2	347	1	-1	10.4	2507	50	3.9	106	0.327
35-36.7539-103.2531-2-15-						0-N06929	10370	456	8409	67	-2	9.0	5.1	-240	-1	1	10.9	3808	86	4.8	-82	0.257
35-36.8081-103.3475-2-11-						0-N06931	15770	390	5490	63	-2	7.6	6.2	344	2	1	12.8	3718	93	4.0	134	0.367

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 (μmho/cm)	SCINTILLOMETER (+1, 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
48-36.0078-102.4892-2-15-						0-N06930-06/07/78-15-			24-		-	-	-	-	-	5-1-1-5-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-									2.20
48-36.0789-102.4189-2-15-						0-N06934-06/07/78-15-			25-		-0-	-	-	-	-	20-1-1-5-5-	-1-	-1-4-3-2-1-	-3-	-	-	-	-									2.60
48-36.0794-102.4303-2-15-						0-N06985-06/07/78-16-			28-		-	-	-	-	-	11-1-1-4-5-	-1-	-2-4-4-2-2-	-1-	-	-	-	-									2.60
48-36.0869-102.6911-2-15-						0-N06987-06/07/78-17-			25-		-	-	-	-	-	5-1-1-5-8-	-1-	-2-4-4-2-2-	-1-	-	-	-	-									2.40
48-36.0614-102.7322-2-15-						0-N06993-06/07/78-19-			30-		-	-	-	-	-	10-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-									2.70
48-36.0650-102.5906-2-15-						0-N06995-06/07/78-19-			30-		-	-	-	-	-	8-1-1-4-6-	-1-	-2-4-3-3-3-	-1-	-	-	-	-									5.20
48-36.0694-102.5883-2-15-						0-N06996-06/07/78-19-			26-		-	-	-	-	-	11-1-1-4-5-	-1-	-2-4-4-2-3-	-1-	-	-	-	-									2.80
48-36.1197-102.6153-2-15-						0-N06998-06/07/78-20-			24-		-	-	-	-	-	5-1-1-4-6-	-1-	-2-4-4-2-3-	-1-	-	-	-	-									2.40
48-36.0514-102.5469-2-15-						0-N07004-06/08/78-15-			26-		-	-	-	-	-	6-1-1-4-5-	-1-	-2-4-4-2-2-	-1-	-	-	-	-									2.00
48-36.0331-102.5119-2-15-						0-N07005-06/08/78-16-			24-		-	-	-	-	-	5-1-1-4-3-	-1-	-2-4-4-2-2-	-1-	-	-	-	-									2.00
48-36.0233-102.5006-2-15-						0-N07006-06/08/78-16-			24-		-	-	-	-	-	6-1-1-4-6-	-1-	-2-4-4-2-2-	-1-	-	-	-	-									1.80
48-36.0592-102.7975-2-15-						0-N07011-06/08/78-15-			24-		-	-	-	-	-	6-1-1-4-6-	-1-	-2-3-3-2-2-	-1-	-	-	-	-									3.00
48-36.1203-102.9508-2-15-						0-N07017-06/08/78-19-			24-		-	-	-	-	-	10-1-1-5-6-	-1-	-2-4-4-2-2-	-1-	-	-	-	-									3.10
48-36.0833-102.8333-2-15-						0-N07018-06/08/78-19-			24-		-	-	-	-	-	5-1-1-4-3-	-1-	-2-4-4-2-2-	-1-	-	-	-	-									2.20
48-36.0153-102.0892-2-15-						0-N07029-06/07/78-15-			29-		-	-	-	-	-	12-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-									3.50
48-36.0106-102.0314-2-15-						0-N07032-06/07/78-16-			27-		-0-	-	-	-	-	14-1-1-5-6-	-1-	-1-4-3-2-2-	-3-	-	-	-	-									2.70
48-36.0439-102.0017-2-15-						0-N07033-06/07/78-17-			27-		-0-	-	-	-	-	4-1-1-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-									2.90
48-36.1183-102.0650-2-15-						0-N07036-06/07/78-19-			27-		-	-	-	-	-	12-1-4-5-6-	-1-	-2-4-4-2-2-	-3-	-	-	-	-									2.50
48-36.0694-102.1081-2-15-						0-N07042-06/08/78-11-			27-		-	-	-	-	-	12-1-1-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-									3.00
48-36.1159-102.0603-2-15-						0-N07043-06/08/78-13-			28-		-	-	-	-	-	4-1-1-5-6-	-1-	-2-4-4-2-2-	-3-	-	-	-	-									2.30
48-36.1264-102.0208-2-15-						0-N07045-06/08/78-13-			28-		-	-	-	-	-	8-1-1-5-5-	-1-	-2-4-3-2-2-	-3-	-	-	-	-									3.10
48-36.1608-102.0181-2-15-						0-N07046-06/08/78-13-			28-		-	-	-	-	-	8-1-1-5-6-	-1-	-1-4-3-2-2-	-3-	-	-	-	-									2.70
48-36.1597-102.0622-2-15-						0-N07053-06/08/78-17-			28-		-	-	-	-	-	10-1-5-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-									3.20
48-36.1781-102.1153-2-15-						0-N07056-06/08/78-19-			27-		-	-	-	-	-	10-1-1-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-									3.10
48-36.2186-102.0950-2-15-						0-N07059-06/08/78-17-			28-		-	-	-	-	-	15-1-6-5-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-									3.40
48-36.2531-102.0075-2-15-						0-N07062-06/08/78-19-			27-		-	-	-	-	-	13-1-1-5-6-	-1-	-2-7-2-2-1-	-3-	-	-	-	-									3.00
48-36.3056-102.0269-2-15-						0-N07064-06/08/78-19-			27-		-	-	-	-	-	18-1-1-4-1-	-1-	-2-4-3-2-1-	-3-	-	-	-	-									2.12
48-36.3711-102.0675-2-15-						0-N07067-06/08/78-19-			27-		-	-	-	-	-	6-1-1-5-6-	-1-	-1-4-4-2-1-	-3-	-	-	-	-									3.00
48-36.3136-102.0564-2-15-						0-N07068-06/08/78-20-			27-		-	-	-	-	-	10-1-1-5-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-									3.20
48-36.3547-102.0964-2-15-						0-N07069-06/08/78-20-			26-		-	-	-	-	-	11-1-1-5-5-	-1-	-2-4-3-2-1-	-3-	-	-	-	-									2.70
48-36.3186-102.0992-2-15-						0-N07070-06/07/78-20-			26-		-	-	-	-	-	8-1-1-5-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-									2.70
48-36.3142-102.0944-2-15-						0-N07071-06/08/78-21-			26-		-	-	-	-	-	19-1-1-5-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-									2.80
48-36.3247-102.1233-2-15-						0-N07075-06/10/78-12-			27-		-	-	-	-	-	11-1-1-5-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-									2.90
48-36.3772-102.0656-2-15-						0-N07076-06/10/78-13-			27-		-	-	-	-	-	16-1-1-5-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-									3.20
48-36.3814-102.0269-2-15-						0-N07077-06/10/78-13-			28-		-	-	-	-	-	13-1-1-5-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-									2.80
48-36.0447-102.2222-2-15-						0-N07080-06/07/78-15-			31-		-	-	-	-	-	12-1-6-5-6-	-1-	-1-4-2-1-2-	-3-	-	-	-	-									3.00
48-36.0533-102.1528-2-15-						0-N07084-06/07/78-17-			30-		-	-	-	-	-	3-1-6-4-6-	-1-	-2-4-2-1-2-	-3-	-	-	-	-									2.90
48-36.0669-102.1767-2-15-						0-N07088-06/07/78-17-			30-		-	-	-	-	-	6-1-6-4-1-	-1-	-2-4-2-1-2-	-3-	-	-	-	-									1.90
48-36.1414-102.8614-2-15-						0-N07089-06/08/78-13-			30-		-	-	-	-	-	9-1-6-5-6-	-1-	-2-4-2-1-1-	-3-	-	-	-	-									2.00
48-36.1800-102.9006-2-15-						0-N07110-06/08/78-17-			32-		-	-	-	-	-	8-1-6-4-6-	-1-	-2-4-2-1-2-	-3-	-	-	-	-									2.30
48-36.1272-102.9728-2-15-						0-N07115-06/08/78-19-			31-		-	-	-	-	-	16-1-6-4-6-	-1-	-2-4-2-1-2-	-3-	-	-	-	-									2.90
48-36.1414-102.8867-2-15-						0-N07119-06/08/78-19-			31-		-	-	-	-	-	12-1-6-5-6-	-1-	-2-4-2-1-2-	-3-	-	-	-	-									2.10
48-36.2050-102.9779-2-15-						0-N07123-06/12/78-16-			32-		-	-	-	-	-	2-1-6-4-1-	-1-	-2-3-2-2-1-	-3-	-	-	-	-									2.60
48-36.1983-102.9322-2-15-						0-N07125-06/12/78-17-			32-		-	-	-	-	-	5-1-6-4-1-	-1-	-2-3-2-2-1-	-3-	-	-	-	-									3.30
48-36.1289-102.6150-2-15-						0-N07129-06/07/78-10-			27-		-0-	-	-	-	-	15-1-5-4-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-									2.70
48-36.1972-102.6428-2-15-						0-N07151-06/08/78-13-			30-		-0-	-	-	-	-	13-1-6-4-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-									5.30
48-36.2353-102.7161-2-15-						0-N07155-06/08/78-15-			30-		-0-	-	-	-	-	5-1-6-4-1-	-1-	-2-4-3-2-2-	-3-	-	-	-	-									2.60
48-36.1467-102.6367-2-15-						0-N07161-06/08/78-16-			30-		-0-	-	-	-	-	4-1-6-4-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-									2.20
48-36.4111-102.0011-2-15-						0-N07183-06/10/78-13-			28-		-	-	-	-	-	13-1-6-5-6-	-1-	-1-4-3-2-1-	-3-	-	-	-	-									3.20
48-36.4014-102.1131-2-15-						0-N07184-06/10/78-15-			28-		-	-	-	-	-	4-1-1-5-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-									3.00
48-36.4589-102.0469-2-15-						0-N07189-06/10/78-16-			28-		-	-	-	-	-	9-1-1-4-1-	-1-	-1-4-3-3-1-	-3-	-	-	-	-									3.00

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
48	36.0078	102.4892	2	15		0-N06330	-5	-5	-5	12	-20	-15	-5	-10	-15	1	33
48	36.0789	102.4169	2	15		0-N06934	-5	6	-5	32	-20	-15	10	-10	-15	2	21
48	36.0794	102.6303	2	15		0-N06985	-5	-5	-5	12	-20	-15	7	-10	-15	-1	10
48	36.0969	102.6811	2	15		0-N06987	-5	-5	-5	29	-20	19	8	-10	-15	1	23
48	36.0614	102.7322	2	15		0-N06993	-5	-5	-5	26	27	19	13	-10	-15	2	26
48	36.0650	102.5905	2	15		0-N06995	-5	-5	-5	15	-20	-15	11	-10	-15	-1	12
48	36.0694	102.5883	2	15		0-N06996	-5	-5	-5	14	-20	-15	7	-10	-15	-1	16
48	36.1197	102.6153	2	15		0-N06998	-5	-5	-5	14	-20	-15	12	-10	-15	2	23
48	36.0514	102.5469	2	15		0-N07004	-5	-5	-5	30	-20	-15	166	-10	-15	-1	32
48	36.0331	102.5119	2	15		0-N07005	-5	-5	-5	15	-20	-15	7	-10	-15	-1	32
48	36.0233	102.5006	2	15		0-N07006	-5	-5	-5	17	-20	-15	8	-10	-15	-1	45
48	36.0592	102.7875	2	15		0-N07011	-5	-5	-5	19	-20	-15	13	-10	-15	1	26
48	36.1203	102.8508	2	15		0-N07017	-5	6	-5	28	-20	-15	5	-10	-15	2	24
48	36.0833	102.8333	2	15		0-N07019	-5	-5	-5	22	-20	-15	10	-10	-15	1	29
48	36.0153	102.0892	2	15		0-N07029	-5	-5	-5	30	-20	21	16	-10	-15	1	13
48	36.0106	102.0814	2	15		0-N07032	-5	6	-5	26	-20	-15	16	-10	-15	2	32
48	36.0439	102.0017	2	15		0-N07033	-5	6	-5	33	-20	-15	28	-10	-15	1	27
48	36.1183	102.0050	2	15		0-N07036	-5	-5	-5	31	-20	-15	11	-10	-15	1	21
48	36.0694	102.1081	2	15		0-N07040	-5	-5	-5	29	-20	-15	13	-10	-15	2	22
48	36.1158	102.0603	2	15		0-N07043	-5	-5	-5	22	-20	15	6	-10	-15	1	20
48	36.1264	102.0208	2	15		0-N07045	-5	-5	5	26	-20	-15	9	-10	-15	2	31
48	36.1608	102.0181	2	15		0-N07046	-5	-5	-5	25	-20	-15	6	-10	-15	1	26
48	36.1597	102.0622	2	15		0-N07053	-5	-5	-5	18	-20	17	15	-10	-15	1	27
48	36.1781	102.1153	2	15		0-N07056	-5	-5	-5	23	-20	30	15	-10	-15	1	20
48	36.2186	102.0950	2	15		0-N07059	-5	-5	-5	21	-20	-15	12	-10	-15	2	12
48	36.2531	102.0075	2	15		0-N07062	-5	-5	-5	20	-20	21	13	-10	-15	2	23
48	36.3056	102.0269	2	15		0-N07064	-5	6	-5	14	-20	-15	9	-10	-15	-1	19
48	36.3711	102.0675	2	15		0-N07067	-5	-5	-5	20	-20	16	14	-10	-15	1	27
48	36.3136	102.0564	2	15		0-N07068	-5	-5	-5	24	-20	-15	11	-10	-15	1	49
48	36.3547	102.0964	2	15		0-N07069	-5	-5	-5	18	-20	-15	12	-10	-15	1	20
48	36.3186	102.0992	2	15		0-N07070	-5	6	-5	24	-20	-15	10	-10	-15	1	49
48	36.3142	102.0944	2	15		0-N07071	-5	-5	-5	32	-20	27	8	-10	-15	1	22
48	36.3247	102.1233	2	15		0-N07075	-5	-5	-5	21	-20	-15	9	-10	-15	1	24
48	36.3772	102.0456	2	15		0-N07076	-5	-5	-5	26	-20	27	16	-10	-15	2	23
48	36.3814	102.0269	2	15		0-N07077	-5	-5	-5	23	-20	-15	-5	-10	-15	-1	37
48	36.0447	102.2222	2	15		0-N07080	-5	-5	-5	22	-20	-15	11	-10	-15	2	14
48	36.0533	102.1528	2	15		0-N07086	-5	-5	-5	19	-20	-15	14	-10	-15	-1	12
48	36.0669	102.1767	2	15		0-N07088	-5	-5	7	-10	-20	-15	9	-10	-15	-1	63
48	36.1414	102.8614	2	15		0-N07093	-5	-5	-5	20	-20	-15	9	-10	-15	1	18
48	36.1800	102.9006	2	15		0-N07110	-5	-5	-5	19	-20	-15	10	-10	-15	1	22
48	36.1272	102.9728	2	15		0-N07115	-5	-5	-5	17	-20	-15	8	-10	-15	-1	10
48	36.1414	102.8867	2	15		0-N07119	-5	7	-5	21	-20	15	13	-10	-15	1	22
48	36.2050	102.9778	2	15		0-N07123	-5	-5	-5	14	-20	-15	8	-10	-15	1	22
48	36.1983	102.9322	2	15		0-N07125	-5	-5	-5	22	-20	15	12	-10	-15	1	11
48	36.1289	102.6150	2	15		0-N07129	-5	-5	-5	31	-20	-15	14	-10	-15	1	21
48	36.1972	102.6428	2	15		0-N07151	-5	-5	-5	14	-20	-15	9	-10	-15	1	16
48	36.2353	102.7161	2	15		0-N07155	-5	-5	-5	13	-20	-15	9	-10	-15	1	15
48	36.1467	102.6367	2	15		0-N07161	-5	6	-5	20	-20	-15	-5	-10	-15	1	22
48	36.4111	102.0011	2	15		0-N07183	-5	-5	-5	15	-20	16	9	-10	-15	2	23
48	36.4014	102.1131	2	15		0-N07186	-5	-5	-5	22	-20	-15	9	-10	-15	1	14
48	36.4689	102.0669	2	15		0-N07193	-5	-5	-5	20	-20	-15	8	-10	-15	1	27

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
48-36.0078-102.4892-2-15-						0-N036235	42110	-0.05	653	53080	80	-67	8.5	47	3.1	3	1.4	23470	24.9	17820	33	0.6
48-36.0789-102.4189-2-15-						0-N036234	59020	-0.05	562	9718	54	-65	5.4	34	2.9	5	1.3	17480	17.6	19250	26	0.4
48-36.0794-102.4303-2-15-						0-N036235	33670	-0.05	453	7454	60	-51	5.2	30	1.9	4	1.1	14390	15.6	17170	23	0.5
48-36.0869-102.6811-2-15-						0-N036237	60570	-0.05	511	9268	49	-61	7.3	43	3.4	5	0.8	19890	9.5	16740	23	0.4
48-36.0614-102.7322-2-15-						0-N036233	53060	-0.03	579	23940	91	-66	10.1	50	4.9	6	1.5	27280	7.8	19080	44	0.4
48-36.0650-102.5906-2-15-						0-N036235	31220	-0.05	444	10390	58	-60	7.8	39	3.8	7	1.1	21620	6.6	12540	31	0.4
48-36.0694-102.5883-2-15-						0-N036236	36470	-0.05	503	17740	50	-51	3.1	38	1.6	4	0.9	11970	20.8	18570	23	0.5
48-36.1197-102.6153-2-15-						0-N036239	44650	-0.07	561	20140	73	-57	11.1	49	5.0	4	1.5	28790	8.6	17650	36	0.4
48-36.0514-102.5469-2-15-						0-N037004	37530	-0.05	530	37710	46	-57	4.9	33	2.5	3	0.6	14890	8.8	16020	20	0.4
48-36.0331-102.5119-2-15-						0-N037005	28860	0.05	573	43090	59	-46	7.8	43	3.0	3	1.1	21680	5.4	14610	27	0.4
48-36.0233-102.5006-2-15-						0-N037006	35370	-0.05	663	32430	42	-49	3.4	22	2.1	3	0.9	10210	9.5	15790	18	0.3
48-36.0592-102.7975-2-15-						0-N037011	45090	-0.03	571	15510	70	-66	8.5	49	4.1	5	1.3	24700	20.8	14850	39	0.6
48-36.1203-102.8509-2-15-						0-N037017	59280	-0.03	607	22420	77	-74	9.4	52	3.8	6	1.4	25470	10.6	17440	37	0.5
48-36.0833-102.8333-2-15-						0-N037019	33710	-0.05	551	36430	47	-58	4.6	30	2.1	4	0.9	13960	10.5	14000	21	0.3
48-36.0153-102.9892-2-15-						0-N037022	56260	-0.03	553	6230	91	-68	8.1	43	3.8	6	1.3	22350	14.3	18570	32	0.5
48-36.0106-102.0314-2-15-						0-N037032	53520	-0.09	550	34720	82	-72	10.2	53	4.7	5	1.4	26310	10.5	17040	40	0.4
48-36.0439-102.0017-2-15-						0-N037033	54100	-0.03	539	23990	67	-66	8.6	51	3.8	5	1.3	23460	11.6	17360	35	0.5
48-36.1183-102.0050-2-15-						0-N037036	52070	-0.08	508	21210	57	-68	7.0	43	3.7	5	0.9	20640	8.9	17350	34	0.4
48-36.0594-102.1081-2-15-						0-N037040	53290	-0.03	574	9702	87	-63	9.3	51	4.3	6	1.4	27020	9.7	17440	29	0.5
48-36.1153-102.0603-2-15-						0-N037043	46070	-0.03	475	15930	67	-55	7.6	43	4.3	4	1.2	23020	12.2	17040	32	0.5
48-36.1264-102.0208-2-15-						0-N037045	50820	-0.09	533	12250	70	-64	8.0	48	4.0	5	1.3	21790	14.6	17110	38	0.5
48-36.1603-102.0181-2-15-						0-N037046	53280	-0.09	601	23740	62	-68	7.9	49	4.5	6	1.2	31010	9.7	16780	32	0.4
48-36.1597-102.0622-2-15-						0-N037051	53810	-0.03	553	9613	91	-68	8.7	50	4.6	6	1.4	25250	12.5	18250	34	0.5
48-36.1781-102.1153-2-15-						0-N037054	56830	-0.10	558	7378	94	-62	11.2	63	4.8	6	1.7	28560	16.7	18650	46	0.6
48-36.2186-102.0950-2-15-						0-N037058	50080	-0.07	494	5260	90	-73	6.9	48	3.4	6	1.3	19160	16.7	16630	31	0.6
48-36.2581-102.0075-2-15-						0-N037062	44610	-0.11	620	8234	93	-73	12.3	60	5.7	7	1.8	34600	13.0	18210	46	0.6
48-36.3056-102.0269-2-15-						0-N037064	30960	-0.06	527	10240	66	-57	7.2	45	3.8	3	1.1	20880	9.2	14200	30	0.4
48-36.3711-102.0675-2-15-						0-N037067	56750	-0.04	537	22330	75	-69	8.8	55	4.2	6	1.5	25390	12.5	20100	40	0.6
48-36.3136-102.0564-2-15-						0-N037069	49810	-0.07	600	41550	67	-67	6.9	50	3.6	6	1.3	20330	14.1	17020	33	0.4
48-36.3547-102.0964-2-15-						0-N037069	53110	-0.05	553	12450	80	-60	6.9	41	3.4	5	1.2	18920	11.4	19520	28	0.5
48-36.3186-102.0992-2-15-						0-N037070	30770	-0.09	545	22850	65	-65	8.5	41	2.8	4	0.9	21560	16.2	14410	29	0.4
48-36.3142-102.0944-2-15-						0-N037071	55290	-0.09	541	25390	87	-70	9.1	64	4.9	6	1.6	26800	11.2	17670	43	0.5
48-36.3247-102.1233-2-15-						0-N037075	50610	-0.07	535	27050	59	-60	7.2	38	2.9	5	1.2	20100	12.9	18050	34	0.5
48-36.3772-102.0556-2-15-						0-N037076	53860	-0.10	610	13260	86	-63	9.3	53	4.1	6	1.5	27730	7.8	19750	38	0.5
48-36.3814-102.0269-2-15-						0-N037077	48820	-0.10	756	50610	87	-67	11.6	56	4.9	5	1.3	28770	15.0	15740	43	0.6
48-36.0447-102.2222-2-15-						0-N037080	59050	-0.09	449	4994	78	-71	7.9	52	5.1	6	1.4	25400	13.5	20360	36	0.5
48-36.0533-102.1528-2-15-						0-N037086	42650	-0.07	498	5332	58	-59	6.2	47	2.6	5	1.1	17210	15.1	18300	29	0.4
48-36.0649-102.1767-2-15-						0-N037088	34280	-0.05	322	145200	44	-57	5.1	28	2.2	3	1.0	12240	8.9	11780	17	0.4
48-36.1414-102.8614-2-15-						0-N037093	40740	-0.05	491	11930	52	-62	5.9	37	2.4	3	0.8	18460	12.3	17760	28	0.4
48-36.1800-102.9006-2-15-						0-N037110	44620	-0.06	597	14330	46	-65	5.3	39	2.0	4	1.1	17270	9.5	17650	27	0.4
48-36.1272-102.9728-2-15-						0-N037116	34570	-0.05	449	3659	52	100	3.5	35	1.8	4	1.0	14470	23.9	12890	26	0.5
48-36.1414-102.9867-2-15-						0-N037118	43390	-0.07	512	10840	53	-56	5.1	28	2.4	4	0.9	13920	10.9	19210	26	0.4
48-36.2050-102.9779-2-15-						0-N037121	44370	-0.05	531	15000	60	-68	7.1	38	2.9	4	1.2	23240	16.4	19320	35	0.6
48-36.1983-102.9322-2-15-						0-N037125	38110	-0.06	539	11660	52	-62	5.1	45	2.0	5	1.3	17860	23.2	14910	28	0.6
48-36.1289-102.6150-2-15-						0-N037130	48300	-0.05	564	23310	48	-63	4.2	34	2.6	5	1.0	15600	11.8	19160	26	0.4
48-36.1972-102.6428-2-15-						0-N037151	34630	-0.05	479	15610	81	-79	5.3	62	1.6	7	1.1	36160	39.8	14240	33	1.2
48-36.2353-102.7161-2-15-						0-N037155	37830	-0.07	551	16280	49	-65	5.7	33	2.5	3	0.7	18620	18.4	18220	26	0.6
48-36.1467-102.6367-2-15-						0-N037161	36930	-0.05	512	24230	41	-62	3.7	40	1.7	4	0.6	12450	13.3	18360	18	0.4
48-36.4111-102.0011-2-15-						0-N037183	55420	-0.05	541	12390	74	-69	8.4	44	3.6	6	1.2	20940	13.7	19440	36	0.5
48-36.4016-102.1131-2-15-						0-N037184	58150	-0.05	533	10170	85	-64	9.3	40	4.1	6	1.4	23610	11.0	19810	31	0.5
48-36.4685-102.0669-2-15-						0-N037187	45530	-0.05	535	17960	72	-70	7.1	51	3.0	5	1.4	22590	13.8	15510	45	0.5

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	LAS SAMPLE LOCATION NUMBER	Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Te	Tb	Th	Ti	V	Yb	Zn	
48	36.0078	102.4893	2	15	0	N06	14250	225	7285	65	-1	5.7	5.6	-152	-1	1	11.2	2304	46	4.8	101	0.196
48	36.0759	102.4189	2	15	0	N06	9393	397	6033	52	-1	5.7	4.7	-187	1	-1	8.7	3569	70	3.0	58	0.299
48	36.0794	102.6303	2	15	0	N06	4413	259	6530	54	-1	4.9	4.5	-168	-1	-1	9.0	2794	33	3.5	46	0.289
48	36.0569	102.6811	2	15	0	N06	11610	545	6467	68	-1	6.8	4.4	-242	-1	-1	8.5	3078	65	3.4	66	0.282
48	36.0414	102.7322	2	15	0	N06	14390	477	6543	70	-2	9.4	5.7	-214	-1	-1	11.4	3450	75	3.5	73	0.237
48	36.0650	102.5906	2	15	0	N06	4105	571	6234	59	-1	7.6	4.9	-198	-1	-1	10.2	4277	58	3.1	88	0.510
48	36.0694	102.5883	2	15	0	N06	4765	277	6742	46	-1	4.4	3.8	293	-1	1	7.0	2915	43	3.7	48	0.400
48	36.1197	102.6153	2	15	0	N06	9864	284	7804	94	-2	9.8	6.1	-180	-1	-1	10.9	2813	42	4.2	103	0.220
48	36.0514	102.5469	2	15	0	N07	7680	307	6370	58	-2	5.2	3.2	-160	-1	-1	6.5	2159	45	3.5	64	0.308
48	36.0331	102.5119	2	15	0	N07	6281	170	6445	64	-2	7.2	5.5	-118	-1	-1	9.7	2030	33	4.1	-74	0.206
48	36.0233	102.5006	2	15	0	N07	6934	206	6434	38	-2	3.5	2.7	-152	-1		6.1	2135	41	2.3	45	0.295
48	36.0592	102.7975	2	15	0	N07	10060	372	7148	62	-2	7.5	6.2	-183	-1	-1	11.3	2950	54	4.1	94	0.265
48	36.1203	102.8508	2	15	0	N07	10490	449	8090	55	-2	8.4	5.9	-211	-1	-1	11.4	4223	64	5.0	-83	0.272
48	36.0833	102.8333	2	15	0	N07	7572	233	6067	47	-1	4.6	3.3	-147	-1		6.8	2306	45	2.4	57	0.324
48	36.0153	102.0892	2	15	0	N07	3307	441	8735	55	-2	7.4	6.6	-238	-1	-1	13.7	3964	71	3.9	47	0.255
48	36.0106	102.0314	2	15	0	N07	11460	402	7013	78	-2	9.2	7.2	-195	-1	-1	13.2	2855	62	4.6	77	0.205
48	36.0439	102.0017	2	15	0	N07	11900	381	6126	71	-2	7.9	6.1	-196	-1		11.9	3573	66	3.6	132	0.244
48	36.1183	102.0050	2	15	0	N07	13460	341	6259	86	-2	7.0	5.6	-189	-1	-1	9.6	2774	58	3.8	93	0.260
48	36.0594	102.1081	2	15	0	N07	10390	445	6096	91	-2	8.9	6.8	-227	-1	-1	13.5	3738	81	5.3	74	0.222
48	36.1158	102.0603	2	15	0	N07	9623	345	5477	79	-2	7.4	5.7	-194	-1	-1	10.6	2733	49	4.1	-88	0.217
48	36.1264	102.0208	2	15	0	N07	15350	413	6563	67	-2	7.1	5.3	-192	-1	-1	12.3	3450	66	4.2	70	0.252
48	36.1609	102.0181	2	15	0	N07	12340	361	6059	53	-2	7.3	5.8	-184	-1	-1	11.0	3500	63	4.7	94	0.245
48	36.1597	102.0622	2	15	0	N07	14400	424	8439	96	-2	8.4	6.8	-233	-1	-1	12.3	3528	75	4.5	59	0.260
48	36.1781	102.1153	2	15	0	N07	12240	490	7306	89	-2	10.1	8.0	-230	-1	-1	16.1	3837	65	4.6	90	0.193
48	36.2186	102.0950	2	15	0	N07	10430	396	8650	66	-2	6.6	6.5	-205	-1	-1	12.3	4121	55	5.1	108	0.274
48	36.2531	102.0075	2	15	0	N07	12720	455	7145	80	-2	11.1	8.1	-210	-1	-1	16.2	3719	61	5.3	121	0.185
48	36.3056	102.0269	2	15	0	N07	5833	259	5081	73	-1	7.0	5.0	-156	-1	-1	10.6	2154	34	2.6	59	0.200
48	36.3711	102.0675	2	15	0	N07	11150	421	6425	84	-2	8.4	6.7	-200	-1	-1	12.6	3338	68	4.7	64	0.238
48	36.3135	102.0564	2	15	0	N07	14440	391	7606	63	-2	6.7	5.9	-215	-1	-1	11.5	3745	59	4.6	112	0.278
48	36.3547	102.0964	2	15	0	N07	10070	433	6750	68	-2	6.5	5.3	-208	-1	-1	9.1	3202	66	4.5	58	0.297
48	36.3185	102.0992	2	15	0	N07	11240	277	5240	94	-2	5.7	5.1	-169	-1	-1	10.7	2918	53	4.0	89	0.252
48	36.3149	102.0944	2	15	0	N07	12060	474	6550	76	-2	9.7	6.9	-209	-1	1	13.3	3452	60	5.0	79	0.211
48	36.3247	102.1233	2	15	0	N07	11720	365	7093	-19	-2	6.5	5.8	-202	-1	-1	11.1	3593	59	3.6	54	0.261
48	36.3772	102.0655	2	15	0	N07	14140	473	7250	78	-2	9.6	6.9	-223	-1	-1	14.3	3969	94	4.5	99	0.224
48	36.3814	102.0269	2	15	0	N07	11470	439	6483	-27	-2	9.4	6.8	-205	-1	-1	14.3	3267	67	5.9	95	0.196
48	36.0447	102.2222	2	15	0	N07	10210	377	7163	71	-2	8.5	6.3	-195	-1	-1	12.6	3716	62	4.0	68	0.238
48	36.0533	102.1528	2	15	0	N07	7657	360	7370	50	-2	5.6	5.1	-206	-1	-1	10.2	3531	49	3.9	82	0.284
48	36.0665	102.1767	2	15	0	N07	10720	185	3755	44	-2	4.3	2.8	465	-1	-1	4.9	2303	47	-1.1	41	0.388
48	36.1414	102.8614	2	15	0	N07	6530	270	7311	55	-2	5.1	5.2	-164	-1		8.5	2594	37	4.3	51	0.235
48	36.1800	102.9006	2	15	0	N07	9241	295	8591	59	-1	5.6	4.0	-166	-1	-1	8.7	2593	44	3.2	-36	0.264
48	36.1272	102.9728	2	15	0	N07	6342	243	6446	47	-1	4.3	4.4	-164	-1	-1	8.6	2840	44	4.0	55	0.337
48	36.1414	102.8867	2	15	0	N07	7327	263	7306	-17	-2	4.5	4.2	-172	-1	-1	7.6	2478	40	3.6	45	0.276
48	36.2050	102.9778	2	15	0	N07	6740	308	8063	61	-2	7.4	5.1	-185	-1	1	9.9	3065	53	3.6	41	0.263
48	36.1983	102.9322	2	15	0	N07	3857	268	7397	33	-1	5.0	4.1	-165	-1	1	7.3	3147	45	5.3	42	0.452
48	36.1289	102.8150	2	15	0	N07	8800	332	8503	51	-1	5.4	4.2	-201	1	-1	7.2	3464	48	3.3	47	0.375
48	36.1972	102.4428	2	15	0	N07	5370	946	6520	54	-2	8.0	5.3	-257	2	-1	10.8	4984	77	7.7	-13	0.491
48	36.2353	102.7161	2	15	0	N07	3624	324	8300	45	-2	5.4	4.4	-169	-1	-1	8.6	2923	40	4.9	39	0.302
48	36.1467	102.6367	2	15	0	N07	5605	222	7240	57	-1	4.3	3.2	-146	-1	1	6.6	2285	34	2.9	45	0.333
48	36.4111	102.0011	2	15	0	N07	10430	463	8366	91	-2	7.2	6.8	-236	-1	-1	12.3	3224	64	4.9	65	0.260
48	36.4014	102.1131	2	15	0	N07	10560	488	6500	86	-2	7.9	6.3	-238	-1	-1	12.1	3459	72	4.6	94	0.248
48	36.4589	102.0569	2	15	0	N07	9048	277	8287	79	-2	7.2	6.5	-170	-1	1	10.5	3802	54	5.5	36	0.286

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 (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
48	36.4914	102.0819	2	15	0	N07231	06/10/78	17	33							10	1	1	5	6	1		1	4	3	2	1		3					2.00
48	36.4478	102.1350	2	15	0	N07300	06/13/78	13	32							12	1	1	5	6	1		3	7	4	2	2		3					3.00
48	36.4217	102.1947	2	15	0	N07304	06/13/78	16	34							34	1	6	5	6	1		1	7	3	2	1		3					3.70
48	36.4083	102.2819	2	15	0	N07309	06/13/78	12	33							18	1	1	5	5	1		1	4	3	2	1		3					3.00
48	36.4125	102.2572	2	15	0	N07310	06/13/78	13	33							10	1	1	5	6	1		1	4	3	2	1		3					2.90
48	36.4367	102.2947	2	15	0	N07313	06/13/78	15	33							20	1	1	5	6	1		1	4	3	2	1		3					2.90
48	36.3978	102.3275	2	15	0	N07317	06/13/78	16	33							10	1	6	5	6	1		1	4	3	2	1		3					3.20
48	36.3133	102.4528	2	15	0	N07244	06/11/78	12	36								1	1	5	6	1		2	4	4	2	1		1					2.50
48	36.3475	102.4500	2	15	0	N07247	06/11/78	13	36							7	1	1	5	6	1		2	4	4	2	1		1					2.80
48	36.3444	102.4500	2	15	0	N07248	06/11/78	13	36							10	1	1	5	6	1		2	4	4	2	1		1					2.30
48	36.3300	102.4150	2	15	0	N07251	06/11/78	14	36							16	1	1	5	6	1		3	4	4	2	1		1					2.50
48	36.3458	102.3822	2	15	0	N07253	06/11/78	14	36							4	1	1	5	6	1		2	4	4	2	1		1					2.60
48	36.2519	102.4006	2	15	0	N07254	06/11/78	14	36							5	1	1	5	6	1		2	4	4	2	1		1					2.60
48	36.2606	102.3158	2	15	0	N07257	06/11/78	13	36							9	1	1	5	6	1		2	4	4	2	1		1					2.60
48	36.2806	102.3311	2	15	0	N07259	06/11/78	15	36							8	1	1	5	6	1		3	4	4	2	1		1					2.40
48	36.3019	102.3322	2	15	0	N07260	06/11/78	15	36							10	1	1	5	6	1		2	4	4	2	1		1					2.70
48	36.3708	102.3711	2	15	0	N07262	06/11/78	16	36							10	1	1	5	6	1		3	4	4	2	1		1					2.60
48	36.3689	102.3717	2	15	0	N07263	06/11/78	16	36							8	1	1	5	6	1		3	4	4	2	1		1					2.60
48	36.3686	102.3481	2	15	0	N07265	06/11/78	16	36							10	1	1	5	6	1		2	4	4	2	1		1					2.10
48	36.3611	102.3108	2	15	0	N07267	06/11/78	17	36							5	1	1	5	6	1		2	4	4	2	1		1					3.50
48	36.3575	102.2747	2	15	0	N07269	06/11/78	17	34							10	1	1	5	5	1		3	4	4	2	1		1					2.60
48	36.2919	102.2772	2	15	0	N07271	06/11/78	18	35							3	1	1	5	5	1		2	4	2	2	1		1					2.50
48	36.4478	102.4508	2	15	0	N07275	06/13/78	16	30							8	1	1	4	5	1		3	4	4	2	3		1					3.00
40	36.6583	102.5767	2	15	0	N07290	06/15/78	18	36							6	2	1	4	1	1		2	4	3	3	1		3					2.80
40	36.6583	102.5306	2	15	0	N07291	06/15/78	18	35							8	2	1	4	1	1		2	4	3	3	1		3					2.30
40	36.6633	102.5169	2	15	0	N07294	06/15/78	20	35							8	1	1	5	5	1		1	4	3	4	1		3					3.20
40	36.6056	102.0014	2	15	0	N07300	06/16/78	12	36							7	1	1	5	6	1		1	4	3	2	1		3					2.60
40	36.5764	102.0350	2	15	0	N07302	06/15/78	13	39							9	1	1	5	6	1		1	4	3	2	1		3					1.80
40	36.6423	102.1072	2	15	0	N07310	06/15/78	16	38							10	1	1	5	6	1		1	4	3	2	2		3					2.80
40	36.7475	102.0858	2	15	0	N07314	06/15/78	17	38							16	1	1	5	6	1		1	3	4	2	2		3					2.90
40	36.7428	102.0022	2	15	0	N07316	06/15/78	18	38							12	1	1	5	6	1		1	4	3	2	2		3					2.60
40	36.7367	102.0044	2	15	0	N07317	06/15/78	19	38							14	1	1	5	6	1		1	4	3	2	2		3					2.80
40	36.6431	102.0172	2	15	0	N07322	06/17/78	12	38							8	1	1	5	6	1		1	4	3	3	2		3					2.60
40	36.6986	102.2119	2	15	0	N07327	06/17/78	15	38							8	1	1	5	6	1		1	4	3	2	2		3					3.30
48	36.3572	102.8914	2	15	0	N07333	06/13/78	11	32							7	1	6	4	1	1		2	3	2	1	2		3					3.80
48	36.3483	102.9886	2	15	0	N07337	06/13/78	12	32							7	1	6	4	1	1		2	3	2	2	2		3					5.00
48	36.3525	102.9647	2	15	0	N07339	06/13/78	12	33							8	1	5	4	5	1		2	3	2	1	2		3					3.00
48	36.3609	102.9636	2	15	0	N07340	06/13/78	13	33							3	1	6	4	1	1		2	3	2	1	2		3					4.50
48	36.3686	102.9539	2	15	0	N07341	06/13/78	13	32							7	1	5	4	6	1		2	3	2	1	2		3					3.00
48	36.3550	102.9529	2	15	0	N07343	06/13/78	14	32							13	1	6	4	1	1		2	4	2	1	2		3					3.00
48	36.3322	102.9397	2	15	0	N07345	06/13/78	14	33							15	1	6	4	1	1		2	4	2	1	2		3					2.80
48	36.3517	102.6791	2	15	0	N07354	06/13/78	17	32							14	1	6	4	6	1		2	3	3	1	1		3					3.00
48	36.3608	102.6414	2	15	0	N07356	06/13/78	17	32							8	1	6	5	6	1		2	3	3	1	1		3					2.70
48	36.3131	102.5783	2	15	0	N07359	06/13/78	18	30							6	1	6	4	1	1		2	4	2	1	2		3					4.30
40	36.5014	102.7956	2	15	0	N07370	06/14/78	13	34							8	1	6	4	6	1		2	3	2	1	2		3					2.70
40	36.5033	102.8147	2	15	0	N07371	06/14/78	14	35							6	1	6	4	6	1		2	3	2	1	2		3					2.70
40	36.5019	102.7808	2	15	0	N07373	06/14/78	14	35							7	1	6	4	6	1		2	3	2	1	2		3					2.90
40	36.5117	102.8544	2	15	0	N07375	06/14/78	14	35							6	1	6	4	1	1		2	3	3	1	2		3					2.30
40	36.5494	102.8042	2	15	0	N07377	06/14/78	15	35		C					10	1	6	4	6	1		2	3	2	1	2		3					2.60
40	36.5531	102.8050	2	15	0	N07378	06/14/78	15	35							14	1	6	4	5	1		2	3	2	1	2		3					2.80
48	36.2783	102.2417	2	15	0	N07381	06/12/78	15	30		C					16	1	6	5	5	1		2	4	3	2	2		3					2.90

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

(2)

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	LASL 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
48-36.4814-102.6819-2-15-						0-N07191	-5	-5	-5	22	-20	-15	7	-10	-15	-1	56
48-36.4478-102.1350-2-15-						0-N07200	-5	-5	-5	26	-20	-15	12	-10	-15	2	22
48-36.4217-102.1947-2-15-						0-N07204	-5	-5	-5	23	-20	18	7	-10	-15	2	20
48-36.4083-102.2819-2-15-						0-N07208	-5	-5	-5	22	-20	-15	6	-10	-15	2	24
48-36.4125-102.2572-2-15-						0-N07210	-5	-5	-5	29	-20	-15	15	-10	-15	1	18
48-36.4367-102.2947-2-15-						0-N07213	-5	5	-5	18	-20	-15	13	-10	-15	1	22
48-36.3978-102.3225-2-15-						0-N07217	-5	-5	-5	20	-20	-15	10	-10	-15	2	20
48-36.3133-102.4628-2-15-						0-N07244	-5	-5	-5	26	-20	-15	7	-10	-15	1	23
48-36.3475-102.4500-2-15-						0-N07247	-5	5	-5	23	-20	-15	10	-10	-15	2	21
48-36.3444-102.4500-2-15-						0-N07249	-5	-5	-5	25	-20	-15	-5	-10	-15	1	19
48-36.3300-102.4150-2-15-						0-N07251	-5	-5	-5	10	-20	-15	-5	-10	-15	1	16
48-36.3458-102.3822-2-15-						0-N07253	-5	-5	-5	32	-20	-15	-5	-10	-15	1	38
48-36.2519-102.4006-2-15-						0-N07256	-5	-5	-5	21	-20	-15	13	-10	-15	2	14
48-36.2606-102.3158-2-15-						0-N07257	-5	5	-5	12	-20	-15	8	-10	-15	-1	7
48-36.2806-102.3311-2-15-						0-N07258	-5	-5	-5	25	-20	-15	9	-10	-15	4	20
48-36.3019-102.3322-2-15-						0-N07259	-5	-5	-5	24	-20	-15	8	-10	-15	1	19
48-36.3708-102.3711-2-15-						0-N07262	-5	-5	-5	17	-20	-15	12	-10	-15	1	19
48-36.3589-102.3717-2-15-						0-N07263	-5	-5	-5	28	-20	-15	12	-10	-15	2	27
48-36.3696-102.3481-2-15-						0-N07265	-5	-5	-5	17	-20	-15	9	-10	-15	-1	27
48-36.3611-102.3108-2-15-						0-N07267	-5	-5	-5	23	-20	-15	-5	-10	-15	-1	22
48-36.3575-102.2747-2-15-						0-N07269	-5	-5	-5	17	-20	24	12	-10	-15	1	31
48-36.2919-102.2772-2-15-						0-N07271	-5	-5	-5	24	-20	-15	5	-10	-15	1	27
48-36.4478-102.6508-2-15-						0-N07275	-5	-5	-5	21	-20	-15	5	-10	-15	-1	35
40-36.6583-102.5767-2-15-						0-N07290	-5	-5	-5	12	-20	-15	-5	-10	-15	-1	19
40-36.6583-102.5806-2-15-						0-N07291	-5	-5	-5	23	-20	-15	-5	-10	-15	-1	24
40-36.6533-102.5169-2-15-						0-N07294	-5	-5	-5	31	-20	-15	8	-10	-15	2	32
40-36.6056-102.0014-2-15-						0-N07300	-5	-5	-5	15	-20	-15	-5	-10	-15	-1	40
40-36.5764-102.0350-2-15-						0-N07302	-5	-5	-5	19	-20	-15	5	-10	-15	-1	30
40-36.6433-102.1072-2-15-						0-N07310	-5	-5	-5	29	21	-15	15	-10	-15	2	25
40-36.7475-102.0859-2-15-						0-N07314	-5	-5	-5	15	-20	-15	14	-10	-15	1	25
40-36.7428-102.0022-2-15-						0-N07316	-5	-5	-5	26	-20	17	9	-10	-15	2	24
40-36.7367-102.0044-2-15-						0-N07317	-5	-5	-5	18	-20	18	7	-10	-15	-1	34
40-36.6431-102.0172-2-15-						0-N07322	-5	-5	-5	21	-20	-15	7	-10	-15	1	31
40-36.6986-102.2119-2-15-						0-N07327	-5	-5	-5	29	-20	-15	5	-10	-15	1	20
48-36.3572-102.9914-2-15-						0-N07333	-5	-5	-5	18	-20	-15	5	-10	-15	2	48
48-36.3483-102.9886-2-15-						0-N07337	-5	-5	-5	32	-20	19	12	-10	-15	1	30
48-36.3625-102.9647-2-15-						0-N07338	-5	-5	-5	21	-20	-15	7	-10	-15	2	44
48-36.3608-102.9636-2-15-						0-N07339	-5	-5	-5	-10	-20	-15	11	-10	-15	-1	29
48-36.3686-102.8539-2-15-						0-N07341	-5	-5	-5	35	-20	19	12	-10	-15	2	26
48-36.3550-102.8628-2-15-						0-N07343	-5	-5	-5	24	-20	-15	9	-10	-15	1	39
48-36.3322-102.8397-2-15-						0-N07345	-5	-5	-5	10	-20	-15	-5	-10	-15	-1	16
48-36.3517-102.6781-2-15-						0-N07354	-5	5	-5	26	-20	15	9	-10	-15	1	18
48-36.3608-102.6414-2-15-						0-N07356	-5	-5	-5	18	-20	-15	11	-10	-15	1	20
48-36.3131-102.6783-2-15-						0-N07360	-5	-5	-5	31	-20	21	-5	-10	-15	1	36
40-36.5014-102.7955-2-15-						0-N07370	-5	-5	5	20	-20	-15	11	-10	-15	-1	56
40-36.5033-102.8147-2-15-						0-N07371	-5	-5	-5	18	-20	-15	8	-10	-15	1	29
40-36.5019-102.7808-2-15-						0-N07372	-5	-5	-5	28	-20	15	13	-10	-15	1	32
40-36.5117-102.8544-2-15-						0-N07375	-5	-5	-5	17	-20	-15	11	-10	-15	-1	31
40-36.5494-102.8042-2-15-						0-N07377	-5	-5	-5	25	-20	17	11	-10	-15	1	52
40-36.5531-102.8050-2-15-						0-N07378	-5	-5	-5	27	-20	-15	10	-10	-15	2	34
48-36.2783-102.2417-2-15-						0-N07381	-5	-5	-5	23	-20	-15	10	-10	-15	1	24

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
48-36.4814-102.0819-2-15-						0-N07191	38140	-0.07	917	113100	51	-74	5.3	29	2.2	4	0.6	14390	7.9	14710	24	0.3
48-36.4478-102.1350-2-15-						0-N07200	54480	-0.08	560	11560	66	-64	7.5	43	3.5	6	1.3	20270	13.9	18550	35	0.5
48-36.4217-102.1947-2-15-						0-N07204	52630	-0.09	546	10120	101	-59	7.7	51	3.4	6	1.4	22150	23.8	19410	34	0.7
48-36.4083-102.2819-2-15-						0-N07208	56210	-0.10	563	9040	86	-72	11.4	53	4.5	6	1.6	29370	15.6	19010	40	0.7
48-36.4125-102.2572-2-15-						0-N07210	55940	-0.09	519	6080	82	-71	9.5	55	5.8	6	1.3	26010	12.9	18280	47	0.5
48-36.4367-102.2547-2-15-						0-N07213	54980	-0.09	591	4127	72	-66	7.5	42	3.8	6	1.3	20510	12.3	19930	38	0.5
48-36.3978-102.3225-2-15-						0-N07217	53000	-0.09	558	12270	89	-66	8.3	52	3.9	6	1.6	22970	15.1	22080	37	0.6
48-36.3133-102.4628-2-15-						0-N07244	48520	-0.09	556	9008	70	-54	8.3	50	4.1	4	0.9	22430	13.5	16510	32	0.4
48-36.3475-102.4500-2-15-						0-N07247	53540	-0.08	537	23530	76	-68	9.4	47	3.8	6	1.3	22970	12.6	17060	33	0.5
48-36.3444-102.4500-2-15-						0-N07248	49300	-0.07	543	12900	57	-57	6.6	38	3.1	4	1.1	17560	10.3	17910	27	0.4
48-36.3300-102.4150-2-15-						0-N07251	43870	-0.07	544	7858	63	-55	5.5	33	1.9	4	1.0	14910	14.3	17040	27	0.5
48-36.3458-102.3822-2-15-						0-N07253	51790	-0.10	559	44450	79	-70	10.7	53	4.7	5	1.4	29370	15.6	17870	41	0.5
48-36.2519-102.4006-2-15-						0-N07254	47770	-0.07	503	10190	68	-60	6.4	43	3.3	4	1.1	18490	15.9	16140	25	0.5
48-36.2506-102.3158-2-15-						0-N07257	30479	-0.06	530	3901	43	-47	3.8	35	2.2	4	1.0	12420	22.3	15480	21	0.5
48-36.2806-102.3311-2-15-						0-N07258	54950	-0.08	493	15110	73	-62	6.9	39	3.2	5	1.1	18630	8.7	19300	27	0.4
48-36.3019-102.3322-2-15-						0-N07259	50140	-0.09	507	12050	85	-65	9.7	45	4.0	5	1.5	26620	14.7	17910	39	0.6
48-36.3708-102.3711-2-15-						0-N07262	54450	-0.08	629	15020	69	-67	8.3	47	5.4	5	1.4	25670	11.3	17330	35	0.4
48-36.3589-102.3717-2-15-						0-N07263	62870	-0.09	622	25660	70	-64	9.1	51	4.7	5	1.5	26340	7.6	18170	31	0.4
48-36.3686-102.3481-2-15-						0-N07265	42960	-0.07	607	34590	57	-54	5.1	30	2.2	4	1.0	15700	11.4	19020	25	0.4
48-36.3611-102.3108-2-15-						0-N07267	40090	-0.09	535	19480	83	-65	6.4	56	-1.3	5	1.5	27630	30.8	14370	37	0.8
48-36.3575-102.2747-2-15-						0-N07269	47940	-0.08	593	34080	65	-71	7.0	39	2.9	4	1.1	20150	11.9	15790	35	0.4
48-36.2919-102.2772-2-15-						0-N07271	43000	-0.06	448	17450	50	-55	5.5	39	2.3	4	1.1	15690	13.9	18240	30	0.4
48-36.4478-102.6508-2-15-						0-N07275	43030	-0.08	550	31480	51	-58	4.9	33	3.1	4	1.0	17310	16.3	17880	25	0.5
40-36.6583-102.5767-2-15-						0-N07290	35690	-0.11	493	14540	40	-54	3.5	33	1.3	4	0.7	16950	17.3	13950	-10	0.5
40-36.6583-102.5806-2-15-						0-N07291	41200	-0.13	517	10720	61	76	6.1	43	3.2	4	1.2	18060	13.5	14270	29	0.4
40-36.6633-102.5169-2-15-						0-N07294	59090	-0.13	696	13470	74	-66	7.2	49	3.9	5	1.2	22450	8.1	17520	42	0.4
40-36.6056-102.0014-2-15-						0-N07300	44290	-0.11	717	49110	54	-65	5.2	32	3.0	5	1.1	14910	10.4	18030	31	0.3
40-36.5764-102.0350-2-15-						0-N07302	37390	-0.10	635	27130	48	-54	3.8	27	1.7	3	0.8	10670	9.5	17980	-10	0.3
40-36.6433-102.1072-2-15-						0-N07310	69700	-0.21	613	26020	98	-74	14.5	69	7.3	6	1.9	38840	8.0	21310	71	0.5
40-36.7475-102.0858-2-15-						0-N07314	53400	-0.13	528	9568	77	-62	9.1	44	4.1	5	1.3	22920	13.8	18100	48	0.5
40-36.7428-102.0022-2-15-						0-N07316	59830	-0.14	553	9075	67	-70	8.3	41	4.4	5	1.4	22040	8.0	20240	42	0.4
40-36.7367-102.0044-2-15-						0-N07317	42100	-0.12	728	43210	61	-55	5.5	30	2.5	4	1.1	16170	16.4	16580	20	0.5
40-36.6431-102.0172-2-15-						0-N07322	50670	-0.16	709	38300	73	-65	8.0	41	3.9	5	1.0	27220	13.2	16180	56	0.5
40-36.6986-102.2119-2-15-						0-N07327	50920	-0.13	578	13830	88	-70	8.3	53	4.5	5	1.6	23650	16.3	20460	-15	0.6
48-36.3572-102.8914-2-15-						0-N07333	50590	-0.14	519	42730	57	-71	8.4	43	3.6	6	1.3	26300	17.9	15460	40	0.5
48-36.3483-102.9886-2-15-						0-N07337	59310	-0.20	494	49870	90	-68	11.2	83	5.0	7	1.7	36960	25.3	15960	32	0.8
48-36.3625-102.9647-2-15-						0-N07338	54970	-0.17	609	35130	77	-63	10.5	57	4.7	5	1.4	27790	11.7	16330	48	0.5
48-36.3508-102.9436-2-15-						0-N07339	38010	-0.11	567	20320	69	-65	5.5	61	2.1	6	1.4	23060	33.8	15910	44	1.0
48-36.3686-102.8539-2-15-						0-N07341	58620	-0.14	535	22720	67	-69	9.5	48	5.2	5	1.3	28300	10.9	18460	43	0.5
48-36.3550-102.8628-2-15-						0-N07343	44720	-0.13	599	34200	61	-61	5.3	42	2.2	5	1.1	16740	11.4	16380	39	0.5
48-36.3322-102.9397-2-15-						0-N07345	38900	-0.12	612	19990	52	-58	4.7	36	2.4	4	1.2	17860	19.9	17200	34	0.6
48-36.3517-102.6781-2-15-						0-N07354	49090	-0.12	594	15300	66	-66	5.3	45	3.2	5	1.2	18290	14.2	17300	35	0.4
48-36.3608-102.6414-2-15-						0-N07356	51820	-0.14	545	7035	56	-71	6.3	47	3.3	5	1.3	21000	13.0	18010	-16	0.4
48-36.3131-102.6783-2-15-						0-N07359	51260	-0.17	492	37510	91	-72	8.9	57	3.7	6	1.5	31170	20.2	15800	45	0.7
40-36.5014-102.7956-2-15-						0-N07370	44070	-0.15	598	41480	68	-69	7.2	39	3.7	4	1.3	22000	12.5	17180	-15	0.5
40-36.5033-102.8147-2-15-						0-N07371	45970	-0.07	528	28130	56	-70	10.1	48	4.1	5	0.8	25480	6.6	18080	31	0.3
40-36.5019-102.7808-2-15-						0-N07373	49460	-0.06	537	35520	71	-72	8.9	45	3.0	5	0.8	23180	9.2	18750	33	0.4
40-36.5117-102.9544-2-15-						0-N07375	42670	-0.05	595	33380	50	-68	5.7	29	2.2	4	0.9	18160	8.4	16830	22	0.3
40-36.5494-102.8042-2-15-						0-N07377	49390	-0.07	748	88820	75	-67	6.5	46	3.0	5	1.4	20880	17.8	15450	28	0.6
40-36.5531-102.8050-2-15-						0-N07378	56130	-0.07	569	30040	70	-64	8.7	46	4.1	5	1.4	22150	15.3	16380	33	0.5
48-36.2783-102.2417-2-15-						0-N07391	56580	-0.05	533	14970	59	-68	5.7	34	2.7	6	1.2	16840	12.2	20950	32	0.5

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	
48-36.4814-102.0819-2-15-						0-N07191	11520	394	6940	54	-2	4.7	4.5	-170	-1		7.4	2624	42	3.3	69	0.270
48-36.4478-102.1350-2-15-						0-N07200	10450	451	7434	44	-2	7.2	6.2	-227	-1	-1	11.4	3677	68	3.7	96	0.263
48-36.4217-102.1947-2-15-						0-N07204	11640	436	7494	57	-2	7.3	6.5	-200	-1	-1	13.4	4238	68	5.3	34	0.276
48-36.4083-102.2819-2-15-						0-N07208	14360	479	7641	70	-2	9.7	7.4	-220	-1	-1	15.2	4178	66	4.6	129	0.197
48-36.4125-102.2572-2-15-						0-N07210	9217	490	6940	59	-2	9.0	6.0	-216	-1	-1	11.6	3455	69	6.2	80	0.250
48-36.4367-102.2947-2-15-						0-N07213	9274	409	8313	47	-2	7.1	6.5	-231	-1	-1	11.9	3354	59	4.9	126	0.244
48-36.3978-102.3225-2-15-						0-N07217	11570	439	8565	81	-2	7.4	7.9	-219	-1	-1	14.1	4535	68	4.8	-54	0.227
48-36.3133-102.4628-2-15-						0-N07244	7504	273	7320	75	-2	7.5	6.1	-166	-1	1	11.5	3246	56	3.8	60	0.217
48-36.3475-102.4500-2-15-						0-N07247	10150	404	6463	46	-2	7.7	5.7	-190	-1	-1	12.0	3047	61	4.3	60	0.233
48-36.3444-102.4500-2-15-						0-N07248	9230	409	6490	43	-2	5.9	4.8	-211	-1	-1	9.4	2738	55	3.7	63	0.245
48-36.3300-102.4150-2-15-						0-N07251	5871	336	7404	47	-2	4.7	4.6	-185	-1	-1	8.5	3179	45	3.8	-43	0.294
48-36.3458-102.3822-2-15-						0-N07253	13200	367	5774	76	-2	9.4	7.4	-191	-1	-1	13.5	3596	71	5.3	106	0.193
48-36.2519-102.4006-2-15-						0-N07256	9737	275	6424	61	-2	6.3	4.4	-161	-1	-1	9.9	2718	54	3.7	23	0.263
48-36.2606-102.3158-2-15-						0-N07257	3768	328	5304	52	-1	4.0	3.6	-176	-1		7.4	2628	33	4.4	35	0.351
48-36.2806-102.3311-2-15-						0-N07258	11330	405	8020	49	-2	6.3	5.5	-208	-1	-1	9.5	3421	64	3.4	68	0.253
48-36.3019-102.3322-2-15-						0-N07259	10150	404	6524	43	-2	8.5	6.5	-192	-1	1	14.0	3012	62	5.1	101	0.193
48-36.3708-102.3711-2-15-						0-N07262	12130	422	5963	73	-2	8.2	5.3	-203	-1	-1	10.4	2797	64	5.5	100	0.250
48-36.3589-102.3717-2-15-						0-N07263	14430	503	5934	75	-2	8.9	6.4	-241	-1	-1	12.0	3319	75	3.7	140	0.217
48-36.3686-102.3491-2-15-						0-N07265	7312	319	5637	47	-2	5.1	4.3	-181	-1	-1	8.3	2588	50	3.4	-49	0.253
48-36.3611-102.3109-2-15-						0-N07267	7009	467	4289	-23	-2	7.4	6.7	-196	2	-1	13.1	3798	52	5.8	41	0.267
48-36.3575-102.2747-2-15-						0-N07269	12070	373	6433	46	-2	6.6	5.6	-193	-1	-1	9.7	3060	55	3.7	89	0.268
48-36.2919-102.2772-2-15-						0-N07271	7246	298	6703	-17	-1	5.3	4.5	-183	-1	-1	7.7	3078	51	2.8	-56	0.325
48-36.4478-102.4508-2-15-						0-N07275	12000	320	6843	64	-2	6.4	3.8	-193	-1	-1	8.6	2535	50	4.7	-58	0.349
40-36.6583-102.5747-2-15-						0-N07290	5147	331	6232	43	-2	4.1	5.4	-179	-1	-1	6.6	3119	49	3.5		0.424
40-36.6583-102.5806-2-15-						0-N07291	5286	260	7407	62	-3	5.1	5.2	-162	-1	-1	9.8	2520	47	3.8	59	0.235
40-36.6633-102.5169-2-15-						0-N07294	12800	370	6943	74	-3	9.1	7.0	-187	-1	-1	11.2	3667	69	3.5	-67	0.286
40-36.6056-102.0014-2-15-						0-N07300	6960	217	7743	69	-3	5.2	4.8	-152	-1	-1	8.9	2566	52	4.4	37	0.292
40-36.5764-102.0350-2-15-						0-N07302	6156	210	6011	52	-2	3.5	4.1	-160	-1		5.4	2153	35	-1.7	-23	0.333
40-36.6433-102.1072-2-15-						0-N07310	16630	567	5263	96	-5	13.5	12.0	-248	-1	-1	18.1	2786	95	4.3	132	0.155
40-36.7475-102.0854-2-15-						0-N07314	9809	502	6346	71	-3	7.5	6.3	-207	-1	-1	11.9	3724	59	4.7	65	0.244
40-36.7428-102.0022-2-15-						0-N07316	12720	325	8577	78	-3	9.0	7.2	-183	-1	-1	12.4	2986	66	4.7	102	0.210
40-36.7367-102.0044-2-15-						0-N07317	8024	319	6004	-19	-3	5.1	3.3	-183	-1	-1	9.9	3054	53	4.4	-42	0.283
40-36.6431-102.0172-2-15-						0-N07322	14240	331	6401	79	-4	9.8	6.3	-177	-1	-1	12.0	3045	61	5.4	96	0.217
40-36.6986-102.2119-2-15-						0-N07327	9553	431	7459	82	-3	7.9	6.9	-198	-1	-1	13.2	3775	58	5.7	76	0.250
48-36.3572-102.8914-2-15-						0-N07333	11300	488	6102	-23	-3	7.7	6.1	376	-1	-1	11.7	3818	71	5.3	87	0.325
48-36.3483-102.9886-2-15-						0-N07337	15820	806	3981	-31	-5	10.6	7.6	-305	-1	1	15.3	4962	108	7.3	64	0.327
48-36.3625-102.9647-2-15-						0-N07338	9733	407	6636	75	-4	9.5	6.8	-223	-1	-1	12.3	3474	66	4.9	65	0.244
48-36.3608-102.9636-2-15-						0-N07339	7300	493	7215	59	-3	6.4	6.7	-190	2	-1	11.0	4717	61	7.1	47	0.409
48-36.3686-102.8539-2-15-						0-N07341	12130	533	6564	65	-3	9.2	6.6	-210	-1	-1	11.3	3919	75	4.5	103	0.265
48-36.3550-102.8628-2-15-						0-N07343	9239	342	6466	-17	-3	5.5	5.5	-192	-1	-1	8.0	3141	57	3.4	-53	0.375
48-36.3322-102.8397-2-15-						0-N07345	4877	328	9263	41	-3	5.6	6.1	-177	2	-1	8.1	2934	38	6.0	49	0.346
48-36.3517-102.6781-2-15-						0-N07354	10400	311	8467	60	-3	6.2	4.2	-173	-1	-1	10.2	3376	52	4.5	63	0.294
48-36.3508-102.6414-2-15-						0-N07356	10150	448	6731	56	-3	7.4	5.9	-204	-1	-1	11.2	3322	53	-1.9	87	0.241
48-36.3131-102.6783-2-15-						0-N07358	11700	625	7174	48	-4	8.2	7.4	-269	1	-1	13.0	4737	77	8.1		0.331
40-36.5014-102.7956-2-15-						0-N07370	18950	315	6308	69	-4	7.2	6.5	-188	-1	-1	10.5	3043	53	3.6	100	0.257
40-36.5033-102.8147-2-15-						0-N07371	9715	338	7704	92	-2	9.4	5.8	-177	-1	-1	11.5	3012	46	2.7	63	0.235
40-36.5019-102.7908-2-15-						0-N07373	11690	385	7354	43	-1	7.0	5.9	-203	-1	-1	12.1	3338	60	3.0	104	0.240
40-36.5117-102.8544-2-15-						0-N07375	7353	262	8466	46	-1	5.2	4.2	-162	-1	-1	8.6	2499	37	3.1	109	0.267
40-36.5494-102.8042-2-15-						0-N07377	14820	328	5429	87	-2	6.9	6.2	-220	-1	-1	11.1	3158	65	4.2	-58	0.234
40-36.5531-102.8060-2-15-						0-N07378	13500	452	6481	63	-2	7.6	6.2	-237	-1	-1	11.3	3617	67	4.6	56	0.248
48-36.2783-102.2417-2-15-						0-N07381	12080	462	6780	60	-1	5.8	4.4	-208	-1		7.1	3560	64	3.8	56	0.408

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
48-36.3536-102.2422-2-15-						0-N07383-06/13/78-15-			30-		-0-	-		-	-	9-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.00
48-36.3561-102.2419-2-15-						0-N07384-06/13/78-15-			30-		-0-	-		-	-	8-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.20
48-36.3608-102.2122-2-15-						0-N07386-06/13/78-15-			30-		-0-	-		-	-	16-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.60
48-36.3581-102.2128-2-15-						0-N07387-06/13/78-16-			30-		-0-	-		-	-	13-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.40
48-36.3647-102.1922-2-15-						0-N07390-06/13/78-16-			30-		-0-	-		-	-	9-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.70
48-36.3329-102.1703-2-15-						0-N07391-06/13/78-17-			29-		-0-	-		-	-	13-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.40
48-36.3256-102.1686-2-15-						0-N07392-06/13/78-17-			29-		-0-	-		-	-	15-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.80
48-36.3875-102.5458-2-15-						0-N07411-06/13/78-19-			27-		-	-		-	-	13-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.60
48-36.3158-102.5144-2-15-						0-N07415-06/13/78-19-			27-		-0-	-		-	-	13-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.50
48-36.4308-102.5614-2-15-						0-N07416-06/14/78-10-			27-		-0-	-		-	-	13-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.80
48-36.4442-102.6122-2-15-						0-N07419-06/14/78-11-			28-		-0-	-		-	-	8-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.00
48-36.4131-102.7178-2-15-						0-N07437-06/13/78-12-			32-		-	-		-	-	10-1-1-5-7-	-1-	-2-4-4-2-2-	-1-	-	-	-	-								2.60
48-36.4567-102.7183-2-15-						0-N07437-06/13/78-13-			34-		-	-		-	-	7-1-1-5-7-	-1-	-2-4-4-2-2-	-1-	-	-	-	-								2.90
48-36.4794-102.7472-2-15-						0-N07438-06/13/78-14-			34-		-	-		-	-	8-1-1-5-7-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								3.30
48-36.4958-102.7519-2-15-						0-N07442-06/13/78-15-			34-		-	-		-	-	8-1-1-5-7-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								2.80
48-36.4850-102.7769-2-15-						0-N07444-06/13/78-15-			-		-	-		-	-	5-1-1-4-1-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								2.50
48-36.4839-102.8303-2-15-						0-N07445-06/13/78-15-			36-		-	-		-	-	6-1-1-4-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								3.20
48-36.4517-102.8406-2-15-						0-N07447-06/13/78-15-			36-		-	-		-	-	10-1-1-5-7-	-1-	-3-4-4-2-1-	-1-	-	-	-	-								3.10
48-36.4597-102.8161-2-15-						0-N07448-06/13/78-15-			36-		-	-		-	-	9-1-1-5-7-	-1-	-3-4-4-2-1-	-1-	-	-	-	-								3.00
48-36.3981-102.9653-2-15-						0-N07458-06/14/78-10-			34-		-	-		-	-	10-1-1-4-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								2.30
48-36.3872-102.8922-2-15-						0-N07459-06/14/78-11-			36-		-	-		-	-	10-1-1-4-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								2.50
48-36.4092-102.9592-2-15-						0-N07462-06/14/78-11-			36-		-	-		-	-	11-1-1-5-6-	-1-	-3-4-4-2-1-	-1-	-	-	-	-								2.70
48-36.4467-102.9714-2-15-						0-N07464-06/14/78-12-			36-		-	-		-	-	5-1-1-5-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								2.60
48-36.4711-102.9983-2-15-						0-N07465-06/14/78-12-			36-		-	-		-	-	3-1-1-5-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								3.00
48-36.4992-102.9854-2-15-						0-N07469-06/14/78-13-			38-		-	-		-	-	7-1-1-5-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								2.80
48-36.4789-102.8755-2-15-						0-N07471-06/14/78-13-			38-		-	-		-	-	5-1-1-5-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								2.80
40-36.5322-102.9125-2-15-						0-N07474-06/14/78-14-			38-		-	-		-	-	8-1-1-5-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-								2.20
40-36.5503-102.8732-2-15-						0-N07476-06/14/78-14-			38-		-	-		-	-	6-1-1-4-6-	-1-	-2-4-4-2-2-	-1-	-	-	-	-								2.90
40-36.5025-102.9514-2-15-						0-N07478-06/14/78-14-			38-		-	-		-	-	6-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-								2.90
48-36.3917-102.4169-2-15-						0-N07481-06/14/78-14-			31-		-0-	-		-	-	6-1-6-5-1-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.60
48-36.3850-102.4133-2-15-						0-N07482-06/14/78-14-			31-		-0-	-		-	-	5-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.60
48-36.3908-102.3939-2-15-						0-N07484-06/14/78-14-			31-		-0-	-		-	-	9-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.60
48-36.3814-102.4431-2-15-						0-N07485-06/14/78-15-			31-		-0-	-		-	-	5-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.70
48-36.4083-102.4522-2-15-						0-N07487-06/14/78-15-			31-		-0-	-		-	-	11-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.30
48-36.4108-102.4528-2-15-						0-N07488-06/14/78-15-			31-		-0-	-		-	-	9-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.70
48-36.4317-102.4711-2-15-						0-N07501-06/14/78-10-			28-		-0-	-		-	-	9-1-5-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.30
48-36.4789-102.1717-2-15-						0-N07503-06/15/78-14-			35-		-0-	-		-	-	4-1-6-5-1-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.70
48-36.4953-102.1658-2-15-						0-N07505-06/15/78-14-			36-		-0-	-		-	-	13-1-6-5-1-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.30
48-36.4900-102.1356-2-15-						0-N07507-06/15/78-14-			36-		-0-	-		-	-	11-1-5-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.70
48-36.4858-102.1103-2-15-						0-N07509-06/15/78-15-			36-		-	-		-	-	9-1-6-5-1-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.20
48-36.4803-102.2211-2-15-						0-N07511-06/15/78-15-			35-		-0-	-		-	-	13-1-6-4-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								1.90
40-36.5269-102.2475-2-15-						0-N07512-06/15/78-15-			36-		-0-	-		-	-	6-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.10
40-36.5539-102.2451-2-15-						0-N07513-06/15/78-16-			35-		-0-	-		-	-	9-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.20
40-36.5453-102.1903-2-15-						0-N07521-06/15/78-17-			34-		-0-	-		-	-	9-1-5-4-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								3.10
40-36.5859-102.2550-2-15-						0-N07529-06/15/78-19-			32-		-	-		-	-	3-1-6-4-1-	-1-	-2-4-3-2-2-	-3-	-	-	-	-								2.40
40-36.5489-102.7511-2-15-						0-N07530-06/14/78-15-			35-		-	-		-	-	6-1-6-5-6-	-1-	-2-3-2-1-2-	-3-	-	-	-	-								2.90
40-36.5989-102.8417-2-15-						0-N07532-06/14/78-16-			37-		-	-		-	-	4-1-6-4-1-	-1-	-2-3-2-2-2-	-3-	-	-	-	-								6.10
40-36.5311-102.7259-2-15-						0-N07539-06/14/78-18-			36-		-	-		-	-	8-1-6-4-6-	-1-	-2-3-2-1-1-	-3-	-	-	-	-								3.00
40-36.5019-102.7239-2-15-						0-N07541-06/14/78-18-			36-		-	-		-	-	10-1-5-5-6-	-1-	-2-3-2-1-2-	-3-	-	-	-	-								2.70
40-36.6150-102.6517-2-15-						0-N07550-06/15/78-14-			38-		-	-		-	-	5-1-6-4-6-	-1-	-2-3-2-2-2-	-3-	-	-	-	-								3.10
40-36.7333-102.8692-2-15-						0-N07541-06/15/78-18-			38-		-	-		-	-	8-1-6-5-6-	-1-	-2-3-2-1-1-	-3-	-	-	-	-								3.10

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
48-36.	3536-	102.2422-2-15-		0-		N07393	-5	-5	-5	18	-20	-15	9	-10	-15	1	25
48-36.	3561-	102.2419-2-15-		0-		N07394	-5	-5	-5	22	-20	-15	7	-10	-15	1	27
48-36.	3608-	102.2122-2-15-		0-		N07396	-5	-5	-5	15	-20	-15	14	-10	-15	1	22
48-36.	3581-	102.2128-2-15-		0-		N07397	-5	-5	-5	19	-20	17	6	-10	-15	-1	28
48-36.	3647-	102.1322-2-15-		0-		N07398	-5	-5	-5	20	-20	-15	13	-10	-15	1	16
48-36.	3328-	102.1703-2-15-		0-		N07401	-5	-5	-5	21	-20	-15	9	-10	-15	1	16
48-36.	3256-	102.1686-2-15-		0-		N07402	-5	-5	-5	29	-20	26	11	-10	-15	1	24
48-36.	3875-	102.5458-2-15-		0-		N07411	-5	-5	-5	21	-20	-15	14	-10	-15	2	18
48-36.	3158-	102.5144-2-15-		0-		N07415	-5	-5	-5	21	-20	-15	8	-10	-15	1	18
48-36.	4308-	102.5414-2-15-		0-		N07416	-5	-5	-5	15	-20	17	12	-10	-15	-1	29
48-36.	4442-	102.6122-2-15-		0-		N07419	-5	-5	-5	23	-20	-15	6	-10	-15	1	31
48-36.	4131-	102.7178-2-15-		0-		N07432	-5	6	-5	21	-20	-15	5	-10	-15	1	34
48-36.	4567-	102.7183-2-15-		0-		N07437	-5	-5	-5	17	-20	-15	12	-10	-15	-1	35
48-36.	4794-	102.7472-2-15-		0-		N07439	-5	-5	-5	22	-20	19	10	-10	-15	1	46
48-36.	4958-	102.7919-2-15-		0-		N07442	-5	-5	-5	18	-20	-15	-5	-10	-15	-1	58
48-36.	4850-	102.7769-2-15-		0-		N07444	-5	-5	-5	14	-20	-15	6	-10	-15	-1	22
48-36.	4839-	102.8303-2-15-		0-		N07445	-5	5	-5	20	-20	-15	-5	-10	-15	-1	37
48-36.	4517-	102.8406-2-15-		0-		N07447	-5	-5	-5	18	-20	-15	15	-10	-15	2	20
48-36.	4597-	102.8161-2-15-		0-		N07448	-5	-5	-5	21	-20	28	-5	-10	-15	2	30
48-36.	3881-	102.9653-2-15-		0-		N07458	-5	-5	-5	23	-20	-15	8	-10	-15	1	17
48-36.	3872-	102.8922-2-15-		0-		N07459	-5	-5	-5	18	-20	-15	-5	-10	-15	1	21
48-36.	4092-	102.9592-2-15-		0-		N07462	-5	-5	-5	27	-20	15	-5	-10	-15	1	19
48-36.	4467-	102.9714-2-15-		0-		N07464	-5	-5	-5	30	-20	-15	-5	-10	-15	1	25
48-36.	4711-	102.9983-2-15-		0-		N07466	-5	-5	-5	37	-20	-15	10	-10	-15	2	62
48-36.	4992-	102.9844-2-15-		0-		N07469	-5	-5	-5	39	-20	-15	13	-10	-15	2	45
48-36.	4789-	102.8756-2-15-		0-		N07471	-5	-5	-5	30	-20	-15	11	-10	-15	2	30
40-36.	5322-	102.9125-2-15-		0-		N07474	-5	-5	-5	25	-20	-15	-5	-10	-15	1	83
40-36.	5503-	102.8792-2-15-		0-		N07476	-5	-5	-5	24	-20	-15	9	-10	-15	2	39
40-36.	5025-	102.9814-2-15-		0-		N07479	-5	-5	-5	28	-20	-15	11	-10	-15	2	19
48-36.	3817-	102.4169-2-15-		0-		N07481	-5	8	-5	14	-20	-15	5	-10	-15	1	24
48-36.	3850-	102.4133-2-15-		0-		N07482	-5	-5	-5	32	-20	16	15	-10	-15	2	23
48-36.	3908-	102.3839-2-15-		0-		N07484	-5	-5	-5	18	-20	-15	7	-10	-15	2	7
48-36.	3814-	102.4431-2-15-		0-		N07485	-5	-5	-5	19	-20	-15	11	-10	-15	1	13
48-36.	4083-	102.4522-2-15-		0-		N07487	-5	-5	-5	22	-20	-15	11	-10	-15	2	23
48-36.	4108-	102.4528-2-15-		0-		N07488	-5	-5	-5	27	-20	18	12	-10	-15	1	26
48-36.	4317-	102.4711-2-15-		0-		N07501	-5	-5	-5	18	-20	-15	6	-10	-15	1	15
48-36.	4789-	102.1717-2-15-		0-		N07502	-5	-5	-5	24	-20	-15	8	-10	-15	-1	79
48-36.	4953-	102.1658-2-15-		0-		N07505	-5	5	-5	20	-20	-15	7	-10	-15	2	24
48-36.	4906-	102.1356-2-15-		0-		N07507	-5	-5	-5	14	-20	-15	15	-10	-15	2	55
48-36.	4858-	102.1103-2-15-		0-		N07509	-5	-5	-5	22	-20	-15	15	-10	-15	2	23
48-36.	4803-	102.2211-2-15-		0-		N07511	-5	-5	-5	12	-20	-15	11	-10	-15	1	15
40-36.	5269-	102.2475-2-15-		0-		N07512	-5	-5	-5	16	-20	-15	12	-10	-15	2	26
40-36.	5539-	102.2481-2-15-		0-		N07513	-5	-5	-5	27	-20	-15	11	-10	-15	1	68
40-36.	5453-	102.1903-2-15-		0-		N07521	-5	-5	-5	18	-20	-15	9	-10	-15	1	11
40-36.	5889-	102.2550-2-15-		0-		N07528	-5	-5	-5	14	-20	-15	7	-10	-15	-1	16
40-36.	5489-	102.7511-2-15-		0-		N07530	-5	6	-5	18	-20	-15	17	-10	-15	2	29
40-36.	5989-	102.8417-2-15-		0-		N07532	-5	-5	-5	23	-20	18	10	-10	-15	1	13
40-36.	5311-	102.7269-2-15-		0-		N07539	-5	-5	-5	30	-20	-15	6	-10	-15	2	35
40-36.	5019-	102.7289-2-15-		0-		N07541	-5	-5	-5	30	-20	-15	16	-10	-15	2	41
40-36.	6150-	102.6517-2-15-		0-		N07559	-5	-5	-5	15	-20	-15	7	-10	-15	1	15
40-36.	7333-	102.8692-2-15-		0-		N07561	-5	-5	-5	16	-20	-15	15	-10	-15	2	45

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
48-36.3536-102.2422-2-15-						0-N07393	48250	-0.05	552	13740	59	-71	5.9	32	3.1	6	0.5	18290	9.0	15900	25	0.3
48-36.3561-102.2419-2-15-						0-N07394	41350	-0.07	531	23370	81	-63	7.3	45	3.5	5	1.4	22290	11.6	16730	32	0.5
48-36.3606-102.2122-2-15-						0-N07396	57470	-0.09	564	13450	92	-65	10.8	68	6.5	5	1.7	31980	14.9	19110	51	0.6
48-36.3581-102.2128-2-15-						0-N07397	49960	-0.05	517	25700	70	-63	6.1	49	3.1	4	1.2	19080	16.6	16800	31	0.4
48-36.3647-102.1322-2-15-						0-N07398	44190	-0.05	526	9740	59	-65	4.8	37	2.5	6	0.7	16470	17.6	17350	27	0.5
48-36.3328-102.1703-2-15-						0-N07399	41440	-0.06	566	15940	66	-56	5.9	36	2.5	4	1.1	18290	8.7	19650	25	0.4
48-36.3256-102.1686-2-15-						0-N07400	57420	-0.07	468	12030	65	-73	8.6	56	4.2	5	1.4	24020	11.7	16690	36	0.5
48-36.3875-102.5459-2-15-						0-N07411	48110	-0.06	559	13560	85	-64	6.8	61	2.9	5	1.6	24290	29.1	18200	40	0.8
48-36.3158-102.5144-2-15-						0-N07415	49540	-0.05	520	17540	54	-70	5.5	32	2.9	5	0.6	16160	13.3	18810	23	0.5
48-36.4308-102.5414-2-15-						0-N07416	44840	-0.06	532	27630	73	-59	6.2	46	3.9	4	1.3	19460	10.7	18350	30	0.5
48-36.4442-102.6122-2-15-						0-N07419	41230	-0.07	565	28080	59	-66	9.0	50	3.7	5	1.4	23380	15.2	17110	33	0.5
48-36.4131-102.7178-2-15-						0-N07422	35410	-0.10	534	15590	40	-65	3.1	28	1.5	4	0.9	9948	14.1	17670	25	0.4
48-36.4567-102.7183-2-15-						0-N07427	47440	-0.15	601	53580	68	-68	5.4	40	3.4	4	1.0	17780	12.3	17930	-14	0.4
48-36.4794-102.7472-2-15-						0-N07429	45780	-0.17	583	41910	69	-71	5.6	49	3.2	5	1.4	21160	18.6	17380	-20	0.6
48-36.4958-102.7919-2-15-						0-N07442	34410	-0.10	476	91980	36	-65	4.6	29	1.9	4	0.5	12410	10.2	12750	-13	0.3
48-36.4850-102.7769-2-15-						0-N07444	33510	-0.09	625	31930	31	-65	3.6	21	1.9	3	0.4	10670	12.4	16410	27	0.4
48-36.4839-102.8303-2-15-						0-N07445	38020	-0.12	594	54050	51	-66	4.5	37	2.4	4	1.1	15930	19.9	14940	-12	0.5
48-36.4517-102.8406-2-15-						0-N07447	51560	-0.21	620	15450	89	-75	11.5	58	5.4	6	1.7	32390	14.3	16810	69	0.6
48-36.4597-102.8161-2-15-						0-N07448	55570	-0.15	624	21410	72	-81	8.6	46	3.9	5	1.2	22810	13.3	17310	-16	0.5
48-36.3881-102.9653-2-15-						0-N07458	41110	-0.11	541	21480	43	-71	4.8	30	2.3	4	1.0	14860	10.7	18080	-13	0.4
48-36.3872-102.8922-2-15-						0-N07459	41310	-0.12	536	13160	55	-63	4.7	41	2.4	4	1.0	15330	16.0	20500	28	0.5
48-36.4092-102.9592-2-15-						0-N07462	56920	-0.20	643	22170	86	-77	11.1	56	5.0	4	1.6	31030	11.5	17010	57	0.5
48-36.4467-102.9714-2-15-						0-N07464	54830	-0.15	589	50640	71	-80	8.6	49	4.6	5	1.3	23040	11.8	18240	-15	0.4
48-36.4711-102.9983-2-15-						0-N07466	52110	-0.15	594	51420	60	-79	8.5	56	3.5	6	1.3	22480	9.4	16890	38	0.4
48-36.4892-102.9844-2-15-						0-N07468	57870	-0.15	621	35170	68	-70	7.6	44	3.8	5	1.2	21040	8.9	20370	-15	0.4
48-36.4789-102.9756-2-15-						0-N07471	50820	-0.18	530	44460	82	-76	10.6	54	5.0	5	1.4	29740	14.1	17640	-20	0.5
40-36.5322-102.9125-2-15-						0-N07474	51070	-0.15	549	98810	55	-74	7.6	44	3.5	4	1.0	22470	6.3	17200	-16	0.4
40-36.5503-102.9792-2-15-						0-N07476	47330	-0.13	530	55730	55	-74	7.5	49	4.1	5	1.2	23280	11.3	18460	38	0.5
40-36.5025-102.9814-2-15-						0-N07478	55140	-0.18	563	4784	94	-73	9.7	53	4.3	6	1.4	27250	9.9	21760	48	0.5
48-36.3817-102.4169-2-15-						0-N07481	35650	-0.14	1070	59820	54	-64	5.2	41	1.8	4	0.7	19420	21.5	16140	-16	0.7
48-36.3850-102.4133-2-15-						0-N07482	51350	-0.18	564	24270	76	-85	8.6	48	4.7	6	1.4	25510	9.2	19570	-18	0.5
48-36.3908-102.3839-2-15-						0-N07484	42540	-0.12	510	11450	57	-65	6.8	37	3.1	5	1.1	18170	15.8	16890	-13	0.5
48-36.3814-102.4431-2-15-						0-N07485	50570	-0.15	473	4705	97	-66	7.9	55	3.5	6	1.5	22670	25.5	22670	47	0.7
48-36.4083-102.4522-2-15-						0-N07487	47000	-0.16	555	27760	81	-66	7.8	55	4.2	6	1.5	28020	29.2	18110	50	0.8
48-36.4108-102.4528-2-15-						0-N07488	54550	-0.18	577	23090	79	-82	9.6	44	4.9	5	1.6	29240	6.3	19180	-20	0.5
48-36.4317-102.4711-2-15-						0-N07501	33150	-0.09	516	12400	41	-59	2.6	25	1.3	4	0.5	10310	15.8	16510	-13	0.4
48-36.4789-102.1717-2-15-						0-N07503	47010	-0.14	774	72340	63	202	5.5	35	3.4	5	1.1	16740	13.5	19430	-13	0.5
48-36.4953-102.1658-2-15-						0-N07505	40480	-0.14	699	3135	79	-71	5.5	51	3.5	5	1.5	22270	27.4	16680	37	0.8
48-36.4900-102.1356-2-15-						0-N07507	45680	-0.12	643	9487	50	-73	4.6	38	3.5	5	1.2	16660	13.2	17740	31	0.5
48-36.4858-102.1103-2-15-						0-N07509	44040	-0.11	637	23500	58	-74	5.0	44	2.9	5	1.2	16080	14.4	15890	34	0.5
48-36.4903-102.2211-2-15-						0-N07511	38610	-0.11	530	9392	49	-54	4.8	26	2.1	3	0.8	12150	8.6	16190	20	0.3
40-36.5269-102.2475-2-15-						0-N07512	47900	-0.16	652	13760	80	-75	6.4	49	-1.5	5	1.4	24750	22.0	16750	-18	0.6
40-36.5539-102.2491-2-15-						0-N07513	45700	-0.14	649	74440	57	-84	5.4	33	3.1	4	1.1	18300	10.2	17440	-17	0.4
40-36.5453-102.1903-2-15-						0-N07521	34700	-0.09	471	4076	55	-61	3.2	35	1.6	5	1.1	12690	19.6	17150	26	0.5
40-36.5889-102.2550-2-15-						0-N07529	34170	-0.10	515	18130	46	-56	3.4	29	1.4	4	0.8	13820	15.3	15010	-10	0.5
40-36.5489-102.7511-2-15-						0-N07530	55130	-0.18	613	22500	92	-72	10.6	58	5.8	6	1.4	30040	18.0	20970	44	0.6
40-36.5889-102.8417-2-15-						0-N07532	33200	-0.14	390	13330	98	-71	7.9	73	2.6	8	1.6	49140	50.2	14340	62	1.2
40-36.5311-102.7269-2-15-						0-N07539	50940	-0.13	526	42650	65	-74	7.5	50	3.8	6	1.2	22770	14.2	18670	50	0.5
40-36.5019-102.7289-2-15-						0-N07541	53070	-0.17	537	22160	83	-70	8.5	48	4.4	6	1.3	24570	9.3	20610	-15	0.4
40-36.5150-102.6517-2-15-						0-N07550	42940	-0.14	541	13540	68	-60	7.1	58	3.2	5	1.4	22810	23.4	16100	41	0.6
40-36.7333-102.8692-2-15-						0-N07561	53130	-0.14	501	25270	65	-75	6.9	41	3.3	5	1.2	23240	14.6	17010	40	0.5

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	
48-36.3536-102.2422-2-15-						0-N07393	11120	330	8089	43	-1	5.9	4.3	-186	-1	-1	8.4	3325	59	2.9	92	0.357
48-36.3561-102.2419-2-15-						0-N07394	9145	295	7791	59	-2	7.2	5.7	-193	-1	-1	10.5	3278	44	4.5	58	0.305
48-36.3608-102.2122-2-15-						0-N07396	12730	410	7572	81	-2	10.7	7.7	-218	-1	2	16.3	3662	63	5.4	-98	0.160
48-36.3581-102.2128-2-15-						0-N07397	10690	333	6216	77	-1	6.3	4.8	494	-1	-1	9.7	3190	52	4.2	62	0.247
48-36.3647-102.1322-2-15-						0-N07398	7423	374	6861	50	-1	5.1	4.6	-178	-1	-1	9.5	3829	59	3.6	74	0.389
48-36.3328-102.1703-2-15-						0-N07401	7077	295	6619	40	-1	5.1	5.0	-184	-1	-1	9.6	2606	38	4.0	89	0.250
48-36.3256-102.1586-2-15-						0-N07402	10390	364	8175	93	-2	9.0	5.8	-198	-1	-1	11.1	3653	65	3.0	48	0.252
48-36.3875-102.5458-2-15-						0-N07411	8739	356	6953	70	-1	7.3	6.5	-184	-1	-1	14.5	3056	54	5.2	77	0.179
48-36.3158-102.5144-2-15-						0-N07415	9688	410	6940	56	-1	5.0	4.3	-191	-1	-1	9.0	3668	63	3.6	66	0.389
48-36.4308-102.5414-2-15-						0-N07416	9625	312	6680	92	-1	6.6	6.1	-192	-1	-1	10.1	2954	49	3.3	101	0.277
48-36.4442-102.6122-2-15-						0-N07419	9779	291	7217	74	-2	7.9	5.9	-169	-1	-1	11.5	3234	55	4.8	-54	0.261
48-36.4131-102.7178-2-15-						0-N07432	14010	220	8122	49	-2	4.2	4.4	496	-1	-1	7.1	2172	33	3.1	45	0.366
48-36.4567-102.7193-2-15-						0-N07437	15950	309	6606	53	-3	5.0	5.1	487	-1	-1	9.1	2687	55	5.1	-31	0.319
48-36.4794-102.7472-2-15-						0-N07439	18520	351	7914	-27	-4	7.3	6.5	-236	-1	-1	10.6	3145	49	4.9	106	0.311
48-36.4958-102.7919-2-15-						0-N07442	18380	172	6533	43	-2	4.1	3.4	564	-1	-1	6.0	2258	46	-1.6	56	0.467
48-36.4850-102.7769-2-15-						0-N07444	6971	238	7055	48	-2	3.9	2.3	-165	-1		4.6	2041	35	3.6	79	0.543
48-36.4839-102.8303-2-15-						0-N07445	9807	295	8289	53	-3	4.9	5.3	-195	-1	-1	9.1	2920	44	5.0	-19	0.352
48-36.4517-102.8406-2-15-						0-N07447	16200	518	7584	93	-5	10.4	8.3	-282	-1	-1	14.7	4241	66	4.7	149	0.211
48-36.4597-102.8161-2-15-						0-N07448	15260	467	7235	47	-4	7.5	5.2	-241	-1	-1	10.5	3976	64	-1.9	63	0.286
48-36.3881-102.9653-2-15-						0-N07459	7272	309	7908	55	-3	5.0	3.6	269	-1	-1	7.4	2550	42	4.4	70	0.311
48-36.3872-102.8922-2-15-						0-N07460	5950	326	9260	45	-3	5.0	4.5	-201	-1	-1	7.1	2845	46	3.9	-47	0.352
48-36.4092-102.9592-2-15-						0-N07462	14950	479	6914	86	-5	10.5	8.7	-241	-1	-1	14.1	3275	57	-2.6	86	0.191
48-36.4467-102.9714-2-15-						0-N07464	11500	417	6850	-28	-4	7.5	5.9	-227	-1	-1	10.4	3437	63	-1.9	53	0.250
48-36.4711-102.9993-2-15-						0-N07466	15020	370	7124	-27	-3	7.4	6.0	-211	-1	-1	10.3	3195	70	3.9	70	0.291
48-36.4892-102.9844-2-15-						0-N07468	11980	397	7440	62	-4	7.0	6.5	-238	-1	-1	11.1	3109	63	2.9	62	0.252
48-36.4789-102.8756-2-15-						0-N07471	12770	425	6342	89	-4	9.3	8.2	-219	-1	-1	13.1	2995	58	6.7	89	0.214
40-36.5322-102.9125-2-15-						0-N07474	15410	365	3934	64	-4	7.4	4.0	367	-1	-1	8.6	3379	65	3.7	35	0.256
40-36.5503-102.8792-2-15-						0-N07476	11000	451	6614	57	-3	7.3	6.1	-207	-1	-1	10.6	3480	68	4.4	82	0.274
40-36.5025-102.9814-2-15-						0-N07479	15570	518	7430	76	-4	9.0	10.0	-269	-1	-1	12.6	3733	83	6.1	156	0.230
48-36.3817-102.4169-2-15-						0-N07481	9890	321	6638	57	-3	5.6	5.4	-201	-1	-1	9.5	3066	43	5.8	51	0.274
48-36.3850-102.4133-2-15-						0-N07482	15130	452	6220	80	-4	8.7	7.6	-255	-1	-1	10.9	3527	74	3.9	94	0.239
48-36.3908-102.3830-2-15-						0-N07484	8096	358	6010	59	-3	5.9	5.6	-189	-1	-1	9.8	2871	47	3.7	71	0.265
48-36.3814-102.4431-2-15-						0-N07485	8387	438	7538	74	-3	7.3	6.7	-230	-1	-1	14.1	4127	64	8.0	-38	0.262
48-36.4083-102.4522-2-15-						0-N07487	11550	412	7106	79	-4	8.1	7.5	-226	-1	-1	14.4	3886	62	5.3	52	0.229
48-36.4108-102.4528-2-15-						0-N07488	10710	528	5280	-21	-4	9.3	5.5	-272	-1	-1	11.8	4070	74	-2.9	111	0.229
48-36.4317-102.4711-2-15-						0-N07501	7437	197	6342	55	-2	3.6	3.1	-145	-1	-1	6.4	2002	32	3.3	44	0.359
48-36.4789-102.1717-2-15-						0-N07503	10470	288	6733	52	-3	5.6	5.6	-218	-1	-1	9.0	2763	62	-2.0	-48	0.300
48-36.4953-102.1658-2-15-						0-N07505	6103	301	9446	73	-3	6.8	6.8	-184	-1	-1	12.6	3940	54	8.4	52	0.262
48-36.4900-102.1356-2-15-						0-N07507	3931	313	8300	60	-3	5.3	4.9	-194	-1	-1	8.0	3057	44	4.2	71	0.338
48-36.4858-102.1103-2-15-						0-N07509	6676	279	9130	64	-3	5.3	4.5	-179	-1	-1	8.8	3175	46	4.7	-48	0.364
48-36.4803-102.2211-2-15-						0-N07511	6851	330	8857	45	-2	4.1	2.8	-186	-1		5.8	1717	39	-1.5	-48	0.328
40-36.5259-102.2475-2-15-						0-N07512	10390	290	7631	95	-4	7.7	8.2	-194	-1	-1	13.9	3482	55	5.0	98	0.223
40-36.5539-102.2481-2-15-						0-N07513	15250	302	6554	-25	-3	6.1	5.8	-219	-1	-1	8.4	2925	54	-1.8	-75	0.381
40-36.5453-102.1903-2-15-						0-N07521	4406	207	7748	-16	-2	4.1	5.4	-145	-1	-1	9.9	2873	35	4.1	36	0.313
40-35.5889-102.2550-2-15-						0-N07528	5505	272	6866	41	-2	4.0	4.0	-173	-1	-1	6.1	2955	41	4.4	53	0.393
40-35.5489-102.7511-2-15-						0-N07530	10450	419	7347	69	-4	9.9	7.0	-247	-1	-1	14.6	3638	59	7.1	97	0.199
40-35.5889-102.8417-2-15-						0-N07532	6042	589	6268	-28	-3	7.4	8.9	-230	2	-1	17.6	6598	107	8.7	58	0.347
40-35.5311-102.7249-2-15-						0-N07539	11060	370	6571	66	-3	7.3	5.6	-199	-1	-1	11.4	3499	60	3.4	68	0.263
40-35.5019-102.7299-2-15-						0-N07541	15500	447	6114	-29	-4	8.5	6.8	-255	-1	-1	12.2	3732	75	3.8	65	0.221
40-35.6150-102.6517-2-15-						0-N07550	7191	331	7544	64	-3	7.1	7.6	-194	-1	-1	10.9	4235	54	6.9	52	0.284
40-35.7333-102.8592-2-15-						0-N07561	10750	360	7363	-25	-3	7.1	5.0	-209	-1	-1	11.3	3538	64	-1.9	52	0.274

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

(1)

DOE SAMPLE NUMEER						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
40-36.7392-102.8047-2-15-						0-N07564-06/15/78-18-			30-	-	-	-	-	-	-	6-1-6-5-5-	-1-	-2-4-2-1-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
40-36.7494-102.8056-2-15-						0-N07565-06/15/78-19-			30-	-C-	-	-	-	-	-	7-1-6-5-5-	-1-	-2-7-2-1-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
40-36.5603-102.9805-2-15-						0-N07591-06/14/78-15-			30-	-	-	-	-	-	-	9-1-1-5-5-	-1-	-2-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
40-36.5731-102.9869-2-15-						0-N07593-06/14/78-16-			30-	-	-	-	-	-	-	5-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
40-36.5011-102.9150-2-15-						0-N07595-06/14/78-14-			30-	-	-	-	-	-	-	3-1-1-4-1-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
40-36.5892-102.9997-2-15-						0-N07597-06/14/78-16-			30-	-	-	-	-	-	-	3-1-1-4-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
40-36.5131-102.9917-2-15-						0-N07599-06/14/78-17-			30-	-	-	-	-	-	-	6-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
40-36.5258-102.9431-2-15-						0-N07600-06/14/78-17-			30-	-	-	-	-	-	-	6-1-1-4-3-	-1-	-2-4-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.30
40-36.5394-102.9428-2-15-						0-N07601-06/14/78-17-			30-	-	-	-	-	-	-	6-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
40-36.5451-102.9861-2-15-						0-N07602-06/14/78-17-			30-	-	-	-	-	-	-	6-1-1-4-1-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
40-36.5464-102.9523-2-15-						0-N07603-06/14/78-17-			30-	-	-	-	-	-	-	6-1-1-5-5-	-1-	-3-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40
40-36.7461-102.9825-2-15-						0-N07605-06/14/78-20-			35-	-	-	-	-	-	-	8-1-1-4-1-	-1-	-2-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40
40-36.7472-102.9585-2-15-						0-N07606-06/14/78-21-			32-	-	-	-	-	-	-	5-1-1-4-1-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.50
40-36.9019-102.9655-2-15-						0-N07607-06/15/78-15-			37-	-	-	-	-	-	-	5-1-1-4-7-	-1-	-2-4-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
40-36.9569-102.9795-2-15-						0-N07610-06/15/78-15-			36-	-	-	-	-	-	-	13-1-1-4-6-	-1-	-2-4-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
40-36.9958-102.7725-2-12-						0-N07611-06/15/78-15-			36-30.	-	-	-	7.7-	950-		9-1-1-5-6-3-3-		3-4-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
40-36.9514-102.9355-2-15-						0-N07614-06/15/78-17-			36-	-	-	-	-	-	-	3-1-1-4-6-	-1-	-2-4-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
40-36.9578-102.9359-2-15-						0-N07615-06/15/78-17-			36-	-	-	-	-	-	-	6-1-1-4-6-	-1-	-2-4-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
40-36.9594-102.9314-2-15-						0-N07616-06/15/78-17-			36-	-	-	-	-	-	-	6-1-1-4-6-	-1-	-2-4-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
40-36.9833-102.9223-2-15-						0-N07618-06/15/78-15-			36-	-	-	-	-	-	-	3-1-1-4-1-	-1-	-2-4-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
40-36.9650-102.9233-2-15-						0-N07619-06/15/78-15-			36-	-	-	-	-	-	-	5-1-1-4-5-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.60
40-36.9178-102.9100-2-15-						0-N07620-06/15/78-19-			36-	-	-	-	-	-	-	5-1-1-5-6-	-1-	-2-4-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
40-36.8967-102.8989-2-15-						0-N07622-06/15/78-19-			36-	-	-	-	-	-	-	5-1-1-4-5-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.90
40-36.8650-102.8933-2-15-						0-N07623-06/15/78-19-			36-	-	-	-	-	-	-	10-1-1-5-5-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
40-36.9344-102.8872-2-12-						0-N07625-06/15/78-20-			36-29.	-	-	-	9.0-	750-		5-1-1-4-6-3-3-		3-4-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
40-36.7547-102.9675-2-12-						0-N07628-06/15/78-21-			39-29.	-	-	-	7.4-	900-		6-1-1-4-6-3-3-		3-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
40-36.7783-102.9689-2-15-						0-N07629-06/15/78-14-			39-	-	-	-	-	-	-	3-1-1-4-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
40-36.7794-102.9056-2-15-						0-N07630-06/15/78-15-			39-	-	-	-	-	-	-	5-1-1-4-6-	-1-	-2-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
40-36.7711-102.9214-2-15-						0-N07631-06/15/78-15-			39-	-	-	-	-	-	-	7-1-1-4-1-	-1-	-2-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.10
40-36.8028-102.9011-2-15-						0-N07633-06/15/78-15-			37-	-	-	-	-	-	-	4-1-1-4-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
40-36.8197-102.8974-2-15-						0-N07635-06/15/78-15-			37-	-	-	-	-	-	-	9-1-1-5-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
40-36.8303-102.9608-2-15-						0-N07637-06/15/78-15-			37-	-	-	-	-	-	-	5-1-1-4-6-	-1-	-2-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
40-36.8517-102.9481-2-15-						0-N07638-06/15/78-15-			37-	-	-	-	-	-	-	7-1-1-5-6-	-1-	-2-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
40-36.8508-102.8231-2-15-						0-N07639-06/15/78-17-			39-	-	-	-	-	-	-	5-1-1-4-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.80
40-36.8503-102.8267-2-15-						0-N07640-06/15/78-17-			39-	-	-	-	-	-	-	8-1-1-5-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
40-36.8744-102.7872-2-15-						0-N07641-06/15/78-13-			39-	-	-	-	-	-	-	10-1-1-5-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.90
40-36.8744-102.7964-2-15-						0-N07642-06/15/78-13-			39-	-	-	-	-	-	-	11-1-1-5-6-	-1-	-3-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.90
40-36.8191-102.8553-2-15-						0-N07645-06/15/78-13-			37-	-	-	-	-	-	-	6-1-1-4-7-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
40-36.8186-102.8600-2-15-						0-N07646-06/15/78-13-			37-	-	-	-	-	-	-	6-1-1-5-1-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20
40-36.7722-102.8055-2-15-						0-N07649-06/15/78-13-			36-	-	-	-	-	-	-	8-1-1-4-5-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
40-36.7528-102.7935-2-15-						0-N07650-06/15/78-13-			36-	-	-	-	-	-	-	8-1-1-5-6-	-1-	-3-4-4-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
40-36.7703-102.7644-2-15-						0-N07651-06/15/78-13-			36-	-	-	-	-	-	-	7-1-1-4-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
40-36.7581-102.8445-2-15-						0-N07653-06/15/78-20-			34-	-	-	-	-	-	-	8-1-1-5-6-	-1-	-3-4-4-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
40-36.7600-102.8469-2-15-						0-N07654-06/15/78-20-			34-	-	-	-	-	-	-	5-1-1-5-6-	-1-	-2-4-4-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
40-36.8539-102.1039-2-15-						0-N07655-06/17/78-13-			38-	-	-	-	-	-	-	10-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
40-36.8544-102.0544-2-15-						0-N07657-06/17/78-13-			38-	-	-	-	-	-	-	8-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
40-36.8503-102.0047-2-15-						0-N07659-06/17/78-13-			38-	-	-	-	-	-	-	5-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
40-36.8586-102.0108-2-15-						0-N07660-06/17/78-13-			38-	-	-	-	-	-	-	8-1-1-4-6-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.00
40-36.8522-102.0089-2-15-						0-N07661-06/17/78-13-			38-	-C-	-	-	-	-	-	5-1-1-4-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
40-36.8197-102.0372-2-15-						0-N07664-06/17/78-13-			38-	-	-	-	-	-	-	11-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
40-36.8094-102.0503-2-15-						0-N07665-06/17/78-14-			38-	-	-	-	-	-	-	6-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90

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
40-36.7392-102.9047-2-15-					0	0-N07644	-5	-5	-5	25	-20	-15	12	-10	-15	2	23
40-36.7494-102.8056-2-15-					0	0-N07645	-5	-5	-5	19	-20	16	10	-10	-15	2	17
40-36.5603-102.9806-2-15-					0	0-N07681	-5	5	-5	19	-20	16	10	-10	-15	2	17
40-36.5731-102.9869-2-15-					0	0-N07682	-5	-5	-5	29	-20	-15	6	-10	-15	2	24
40-36.6011-102.9150-2-15-					0	0-N07686	-5	-5	-5	18	-20	-15	-5	-10	-15	1	13
40-36.5892-102.8997-2-15-					0	0-N07687	-5	-5	-5	19	-20	-15	16	-10	-15	2	25
40-36.6181-102.9919-2-15-					0	0-N07689	-5	-5	-5	27	-20	23	10	-10	-15	2	26
40-36.6258-102.9431-2-15-					0	0-N07690	-5	-5	-5	15	-20	-15	13	-10	-15	-1	16
40-36.6394-102.9628-2-15-					0	0-N07691	-5	-5	-5	28	-20	-15	7	-10	-15	2	19
40-36.6461-102.9861-2-15-					0	0-N07692	-5	-5	-5	20	-20	-15	7	-10	-15	1	25
40-36.6454-102.9528-2-15-					0	0-N07693	-5	-5	-5	19	-20	-15	11	-10	-15	2	46
40-36.7461-102.9825-2-15-					0	0-N07695	-5	-5	-5	19	-20	-15	9	-10	-15	1	16
40-36.7472-102.9586-2-15-					0	0-N07696	9	-5	-5	-10	-20	20	-5	15	25	-1	-13
40-36.9019-102.9658-2-15-					0	0-N07697	-5	-5	-5	22	-20	-15	9	-10	-15	1	20
40-36.9559-102.9792-2-15-					0	0-N07610	-5	-5	-5	23	-20	-15	6	-10	-15	2	26
40-36.9958-102.9725-2-12-					0	0-N07611	-5	-5	-5	16	-20	-15	-5	-10	-15	1	21
40-36.9514-102.9358-2-15-					0	0-N07614	-5	-5	-5	11	-20	-15	5	-10	-15	1	10
40-36.9578-102.9358-2-15-					0	0-N07615										2	11
40-36.9594-102.9314-2-15-					0	0-N07616	-5	-5	-5	13	-20	-15	-5	-10	-15	1	12
40-36.9833-102.9222-2-15-					0	0-N07618	-5	-5	-5	10	-20	-15	7	-10	-15	1	4
40-36.9650-102.9233-2-15-					0	0-N07619	-5	-5	-5	17	-20	-15	5	-10	-15	-1	4
40-36.9178-102.9100-2-15-					0	0-N07620	-5	-5	-5	15	-20	-15	8	-10	-15	2	69
40-36.8967-102.8989-2-15-					0	0-N07622	-5	-5	-5	16	-20	-15	-5	-10	-15	-1	7
40-36.8550-102.8933-2-15-					0	0-N07623	-5	-5	-5	16	-20	18	10	-10	-15	3	57
40-36.8344-102.8972-2-12-					0	0-N07625	-5	-5	-5	17	-20	-15	-5	-10	-15	1	7
40-36.7647-102.9675-2-12-					0	0-N07629	-5	-5	-5	19	-20	-15	-5	-10	-15	1	17
40-36.7783-102.9689-2-15-					0	0-N07630	-5	5	-5	15	-20	-15	11	-10	-15	1	15
40-36.7794-102.9056-2-15-					0	0-N07630	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	12
40-36.7711-102.9214-2-15-					0	0-N07631	-5	-5	-5	17	-20	-15	11	-10	-15	1	21
40-36.8028-102.9011-2-15-					0	0-N07633	-5	-5	-5	19	-20	-15	6	-10	-15	1	9
40-36.8197-102.9078-2-15-					0	0-N07635	-5	-5	-5	19	-20	15	10	-10	-15	2	14
40-36.8303-102.9608-2-15-					0	0-N07637	-5	-5	-5	11	-20	-15	-5	-10	-15	1	9
40-36.8517-102.9481-2-15-					0	0-N07638	-5	-5	-5	16	-20	-15	-5	-10	-15	2	10
40-36.8508-102.8231-2-15-					0	0-N07639	-5	5	-5	20	-20	-15	13	-10	-15	2	40
40-36.8503-102.9267-2-15-					0	0-N07640	-5	-5	-5	32	-20	-15	7	-10	-15	2	31
40-36.8744-102.7872-2-15-					0	0-N07641	-5	-5	-5	33	-20	20	9	-10	-15	3	67
40-36.8744-102.7964-2-15-					0	0-N07642	-5	-5	-5	22	-20	18	14	-10	-15	3	83
40-36.8181-102.8553-2-15-					0	0-N07645	-5	-5	-5	-10	-20	-15	15	-10	-15	2	22
40-36.8186-102.8600-2-15-					0	0-N07646	-5	-5	-5	32	-20	20	13	-10	-15	2	31
40-36.7722-102.8054-2-15-					0	0-N07649	-5	-5	-5	11	-20	-15	11	-10	-15	2	16
40-36.7628-102.7936-2-15-					0	0-N07650	-5	-5	-5	29	-20	22	22	-10	-15	2	21
40-36.7703-102.7664-2-15-					0	0-N07651	-5	-5	-5	19	-20	15	12	-10	-15	2	16
40-36.7581-102.8456-2-15-					0	0-N07653	-5	-5	-5	24	-20	-15	20	-10	-15	2	15
40-36.7500-102.8469-2-15-					0	0-N07654	-5	-5	-5	24	-20	17	13	-10	-15	2	19
40-36.8539-102.1039-2-15-					0	0-N07655	-5	-5	-5	15	-20	-15	15	-10	-15	2	17
40-36.8644-102.0644-2-15-					0	0-N07657	-5	-5	-5	28	-20	-15	-5	-10	-15	2	28
40-36.8503-102.0047-2-15-					0	0-N07659	-5	-5	-5	19	23	-15	17	-10	-15	2	22
40-36.8586-102.0108-2-15-					0	0-N07660	-5	-5	-5	10	-20	-15	-5	-10	-15	-1	21
40-36.8622-102.0089-2-15-					0	0-N07661	-5	-5	-5	10	-20	-15	5	-10	-15	1	20
40-36.8197-102.0372-2-15-					0	0-N07664	-5	-5	-5	24	-20	22	13	-10	-15	2	18
40-36.8094-102.0503-2-15-					0	0-N07665	-5	-5	-5	19	-20	-15	7	-10	-15	2	18

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	LASL 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
40-36.7392-102.8047-2-15-						0-N07564	58200	-0.14	667	11260	73	-79	8.7	42	4.5	6	1.4	26090	13.2	18840	39	0.6
40-36.7494-102.8056-2-15-						0-N07565	56450	-0.15	657	14090	78	-65	7.3	53	3.5	5	1.3	23600	15.6	21730	-12	0.6
40-36.5603-102.9806-2-15-						0-N07591	63220	-0.18	613	24730	75	-84	9.2	54	4.5	4	1.3	25960	12.2	16590	-19	0.5
40-36.5731-102.9969-2-15-						0-N07592	59070	-0.14	528	33440	69	-82	8.0	50	3.5	5	1.3	23160	9.3	18110	-15	0.4
40-36.6011-102.9150-2-15-						0-N07595	34320	-0.10	633	20020	54	-59	4.0	35	2.0	5	1.1	13980	21.2	12640	-11	0.5
40-36.5892-102.8997-2-15-						0-N07597	46720	-0.14	622	36800	64	-71	6.1	37	2.3	5	1.1	19220	13.1	15030	-12	0.5
40-36.6181-102.9019-2-15-						0-N07598	53100	-0.17	579	17280	96	-79	10.8	59	4.0	7	1.5	31660	24.4	20150	54	0.8
40-36.6258-102.9431-2-15-						0-N07599	33270	-0.12	459	29460	65	-68	6.7	58	2.6	6	1.1	40310	31.3	12490	34	0.8
40-36.6394-102.9628-2-15-						0-N07601	47910	-0.12	514	10310	55	-72	6.8	37	3.1	6	1.1	19840	12.0	17660	37	0.5
40-36.6461-102.9861-2-15-						0-N07602	36830	-0.11	514	13490	61	145	4.4	28	1.7	4	1.0	12200	14.6	12430	-11	0.5
40-36.6464-102.9528-2-15-						0-N07603	47320	-0.16	596	45310	79	-65	8.1	59	3.9	6	1.6	29240	25.6	15300	48	0.6
40-36.7461-102.9625-2-15-						0-N07605	37010	-0.11	640	20320	51	-72	5.2	40	2.0	5	0.7	27130	21.0	17540	-11	0.7
40-36.7472-102.9586-2-15-						0-N07606	29770	-0.16	336	19190	114	-81	12.0	111	2.9	9	1.8	118200	79.4	10690	72	1.8
40-36.9019-102.9659-2-15-						0-N07607	48230	-0.13	329	19120	49	-43	3.9	26	3.1	4	0.9	13780	8.8	20780	-11	0.4
40-36.9569-102.9792-2-15-						0-N07610	47770	-0.16	535	24290	70	-67	8.6	42	4.3	4	1.3	24090	12.8	15040	-17	0.5
40-36.9358-102.9725-2-12-						0-N07611	42470	-0.12	625	18530	56	139	6.0	36	2.8	5	1.1	16290	12.1	14290	37	0.5
40-36.9514-102.9358-2-15-						0-N07614	30420	-0.10	322	7019	44	-45	3.8	29	2.0	4	0.9	12330	18.8	8445	-11	0.4
40-36.9578-102.9358-2-15-						0-N07615	33030	-0.10	404	14100	47	-40	3.8	27	1.5	4	0.8	11740	13.5	10760	-10	0.4
40-36.9594-102.9314-2-15-						0-N07616	31650	-0.12	375	10470	60	-47	4.8	39	-1.2	5	1.1	15160	20.3	8188	-13	0.5
40-36.9833-102.9222-2-15-						0-N07618	23300	-0.10	286	5460	50	-43	4.3	47	1.1	4	1.0	13610	39.8	7207	26	0.6
40-36.9650-102.9233-2-15-						0-N07619	27570	-0.11	291	7359	49	-40	3.8	57	1.6	6	1.2	12310	61.7	8011	37	0.7
40-36.9178-102.9100-2-15-						0-N07620	33660	-0.12	307	28050	54	-46	3.8	37	2.1	4	0.9	13050	21.4	10130	-11	0.5
40-36.8967-102.8989-2-15-						0-N07622	14840	-0.13	209	3475	53	-27	3.8	76	-1.0	5	1.2	10570	90.3	3834	35	1.0
40-36.8650-102.8933-2-15-						0-N07623	59320	-0.15	578	24780	77	-73	8.1	51	4.0	5	1.4	22840	9.6	16540	-15	0.4
40-36.8344-102.8872-2-12-						0-N07625	25740	-0.10	350	13500	50	-53	4.3	36	1.6	5	1.1	17650	23.2	9147	30	0.6
40-36.7647-102.9675-2-12-						0-N07628	32810	-0.13	413	20860	59	196	5.6	32	1.7	5	0.9	14430	14.0	9429	23	0.4
40-36.7783-102.9689-2-15-						0-N07629	42250	-0.15	461	14860	71	-64	8.4	49	3.9	5	1.3	28080	20.1	14830	43	0.6
40-36.7794-102.9056-2-15-						0-N07630	27000	-0.10	316	12050	47	-45	4.3	29	-1.0	4	0.9	11430	15.9	7764	-11	0.4
40-36.7711-102.9214-2-15-						0-N07631	36910	-0.13	390	13970	59	-60	6.0	42	2.1	6	1.2	16510	23.2	12310	-13	0.6
40-36.8028-102.9011-2-15-						0-N07633	28110	-0.11	256	13270	65	-40	2.6	42	-1.0	6	0.8	9469	26.5	7364	18	0.7
40-36.8197-102.8978-2-15-						0-N07635	44180	-0.15	443	4434	86	-67	8.2	48	3.6	5	1.4	21420	17.1	14130	34	0.6
40-36.8303-102.9608-2-15-						0-N07637	13110	-0.06	174	3530	34	-32	3.3	39	-0.8	4	0.7	9493	22.5	3969	19	0.4
40-36.8517-102.9481-2-15-						0-N07638	44790	-0.07	447	4917	82	-61	5.6	54	2.8	6	1.3	16790	20.7	12910	30	0.6
40-36.8508-102.8231-2-15-						0-N07639	48030	-0.09	787	44960	82	-66	10.4	78	5.4	7	1.0	68150	22.7	17390	42	0.9
40-36.8503-102.8267-2-15-						0-N07640	52410	-0.09	634	14040	77	-67	11.0	49	4.9	5	1.4	27480	11.6	13570	36	0.5
40-36.8744-102.7872-2-15-						0-N07641	98780	-0.11	937	12570	102	-61	10.3	83	8.2	9	2.1	30380	5.8	19350	56	0.6
40-36.8744-102.7964-2-15-						0-N07642	83980	-0.11	823	25240	101	-62	9.7	69	6.4	8	1.6	27100	6.9	16750	44	0.5
40-36.8181-102.8553-2-15-						0-N07645	44960	-0.09	562	30910	63	-71	7.8	60	2.0	5	1.4	24730	16.3	15590	35	0.6
40-36.8186-102.8600-2-15-						0-N07646	50830	-0.10	752	2657	90	-40	17.3	64	4.2	8	1.7	20850	11.7	10700	49	0.7
40-36.7722-102.8056-2-15-						0-N07649	43540	-0.09	631	15390	58	-63	5.3	30	2.3	5	1.2	17560	15.3	17710	29	0.4
40-36.7628-102.7936-2-15-						0-N07650	72700	-0.13	817	17410	93	-69	13.0	63	6.0	6	1.8	37360	9.4	25980	45	0.6
40-36.7703-102.7564-2-15-						0-N07651	51260	-0.09	593	9466	59	-68	6.9	40	3.6	5	1.3	24230	12.4	17340	33	0.6
40-36.7581-102.8456-2-15-						0-N07653	59270	-0.09	602	9234	69	-76	7.6	45	3.8	6	1.4	27600	11.0	19710	38	0.4
40-36.7600-102.8469-2-15-						0-N07654	61170	-0.11	697	10930	85	-74	8.9	46	4.6	6	1.4	27590	12.8	20040	37	0.6
40-36.8539-102.1039-2-15-						0-N07655	55500	-0.10	617	10940	94	-67	8.1	57	4.8	6	1.6	25730	19.3	20980	44	0.7
40-36.8644-102.0644-2-15-						0-N07657	47140	-0.07	572	31690	59	-70	6.3	42	2.8	5	1.2	18190	12.5	17220	34	0.5
40-36.8503-102.0047-2-15-						0-N07659	55070	-0.08	761	25640	65	-69	5.8	41	3.2	5	1.2	19840	10.7	21760	35	0.4
40-36.8586-102.0108-2-15-						0-N07660	40930	-0.08	595	24530	86	-58	5.9	59	2.6	6	1.3	31040	39.2	17560	38	1.0
40-36.8622-102.0089-2-15-						0-N07661	42880	-0.09	540	15250	71	-67	7.5	56	3.1	5	1.5	28810	31.6	18760	47	0.9
40-36.8197-102.0372-2-15-						0-N07664	61650	-0.09	593	9253	83	-81	7.8	54	3.9	7	1.5	23850	9.8	20060	44	0.5
40-36.8094-102.0503-2-15-						0-N07665	51370	-0.09	551	10740	58	-66	6.3	39	2.5	5	1.2	18270	12.1	19570	32	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	
40-36.7392-102.8047-2-15-						0-N07564	3560	413	7513	84	-3	8.1	7.6	-219	2	-1	11.8	3483	73	5.5	94	0.280
40-36.7494-102.8056-2-15-						0-N07565	11200	304	7213	60	-3	7.4	5.5	-231	-1	-1	12.1	3748	79	5.9	-29	0.273
40-36.5603-102.9804-2-15-						0-N07581	11910	357	7677	-34	-4	8.7	7.1	-233	-1	-1	12.0	3311	57	-2.4	-77	0.225
40-36.5731-102.9869-2-15-						0-N07583	9323	359	8396	85	-3	7.7	5.0	-216	-1	-1	9.9	3727	70	4.7	63	0.283
40-36.6011-102.9150-2-15-						0-N07585	5773	206	6376	48	-2	4.7	5.9	-144	-1	1	8.4	3093	47	4.3	68	0.369
40-36.5892-102.8997-2-15-						0-N07587	10860	332	7591	57	-3	5.8	5.3	-232	-1	-1	9.4	2673	52	3.8	56	0.287
40-36.6181-102.9919-2-15-						0-N07589	10580	433	8303	101	-4	9.6	8.6	-220	-1	-1	16.8	3743	75	8.0	79	0.220
40-36.6258-102.9431-2-15-						0-N07590	-2604	700	5803	-23	-3	6.7	6.9	-234	2	-1	9.8	5176	92	6.9	49	0.439
40-36.6394-102.9628-2-15-						0-N07591	9763	359	7167	48	-3	6.6	6.5	-198	-1	-1	10.6	3186	55	2.8	62	0.283
40-36.6461-102.9861-2-15-						0-N07592	5251	237	9080	-17	-3	4.3	4.5	-180	-1	-1	7.9	3069	42	3.8	-25	0.354
40-36.6464-102.9529-2-15-						0-N07593	11320	330	6387	45	-4	8.2	7.4	374	-1	-1	12.8	3547	69	6.6	69	0.266
40-36.7461-102.9825-2-15-						0-N07605	-2677	454	7083	-21	-3	5.4	4.3	-206	-1	-1	8.2	4189	62	6.3	60	0.415
40-36.7472-102.9586-2-15-						0-N07606	-3181	876	6044	-36	-4	9.5	10.2	-289	8	-1	21.7	9596	204	13.5		0.438
40-36.9019-102.9658-2-15-						0-N07607	13650	159	3173	61	-3	5.7	4.1	-155	-1	-1	7.5	2211	39	3.4	47	0.267
40-36.9559-102.9792-2-15-						0-N07610	12350	360	4013	81	-3	8.3	5.5	-200	-1	-1	11.0	3298	50	4.5	106	0.282
40-36.9958-102.9725-2-15-						0-N07611	11100	291	7747	56	-3	5.6	5.6	-185	-1	-1	9.1	3252	49	4.3	38	0.341
40-36.9514-102.9358-2-15-						0-N07614	4515	178	2406	35	-2	4.7	4.6	-129	1	-1	6.6	2556	36	4.3	70	0.439
40-36.9578-102.9359-2-15-						0-N07615	7494	200	3156	-16	-2	4.1	4.5	-147	-1	-1	7.3	1997	34	3.1		0.342
40-36.9594-102.9314-2-15-						0-N07616	6256	182	3373	36	-3	5.7	4.9	-131	-1	-1	9.0	2452	39	4.0	41	0.300
40-36.9833-102.9222-2-15-						0-N07618	4797	193	3207	-18	-2	4.8	4.4	-131	-1	-1	8.4	2650	41	3.2	63	0.417
40-36.9650-102.9233-2-15-						0-N07619	4306	181	2982	28	-2	5.3	4.6	-124	-1	-1	9.8	3508	41	8.5		0.469
40-36.9178-102.9100-2-15-						0-N07620	13440	177	3710	37	-3	4.6	5.0	-154	-1	-1	8.2	2344	46	4.1	76	0.427
40-36.9967-102.8969-2-15-						0-N07622	1074	116	1490	-17	-3	4.7	5.0	-107	-1	-1	10.3	2911	26	7.5	26	0.476
40-36.8650-102.8933-2-15-						0-N07623	13300	337	6032	60	-3	8.2	6.4	-206	-1	-1	11.5	3458	69	-2.2	46	0.304
40-36.8344-102.8872-2-12-						0-N07625	3760	287	4930	-19	-2	4.6	5.1	-155	-1	-1	8.0	3143	40	4.6	46	0.413
40-36.7647-102.9675-2-12-						0-N07628	7453	333	4892	38	-3	4.9	5.7	-193	-1	-1	8.3	2775	42	3.6	44	0.373
40-36.7783-102.9689-2-15-						0-N07629	7679	405	5930	60	-3	7.7	6.0	-229	-1	-1	11.4	4062	55	6.0	-57	0.281
40-36.7794-102.9056-2-15-						0-N07630	-1737	220	3072	-18	-2	4.3	4.0	-142	-1	1	6.4	3075	36	2.9	-38	0.391
40-36.7711-102.9214-2-15-						0-N07631	7225	287	5062	-20	-3	6.0	5.4	-166	-1	-1	10.1	3727	51	4.1	56	0.406
40-36.8028-102.9011-2-15-						0-N07633	3645	112	3224	-17	-3	4.7	5.3	-124	-1	-1	11.5	3933	41	4.7	-19	0.322
40-36.8197-102.8978-2-15-						0-N07635	6720	306	6855	67	-3	7.9	8.5	-184	-1	-1	13.5	3807	50	5.3	63	0.222
40-36.8303-102.9608-2-15-						0-N07637	2512	138	1393	-15	-1	3.2	3.7	-109	-1	-1	6.8	2280	28	3.1		0.412
40-36.8517-102.9481-2-15-						0-N07638	4683	302	4047	53	-2	5.2	5.9	-209	-1	-1	12.0	4176	54	4.1	61	0.292
40-36.8509-102.8231-2-15-						0-N07639	10070	568	5764	80	-2	9.3	7.4	-252	4	1	16.3	5041	130	6.4	105	0.233
40-36.8503-102.8267-2-15-						0-N07640	8237	344	4590	59	-1	9.3	9.3	-212	-1	-1	10.6	3868	64	4.1	86	0.340
40-36.8744-102.7872-2-15-						0-N07641	15040	322	2438	90	-3	15.1	10.0	-227	-2	-1	16.5	5351	126	5.4	122	0.236
40-36.8744-102.7964-2-15-						0-N07642	12710	324	3502	-31	-3	11.4	8.4	-244	-1	-1	14.6	4684	110	3.4	-114	0.267
40-36.8181-102.8553-2-15-						0-N07645	6218	357	7058	62	-2	6.9	5.7	-228	-1	-1	10.7	3957	58	4.4	78	0.290
40-36.8186-102.8660-2-15-						0-N07644	5033	340	702	72	-2	11.3	9.0	-194	-1	1	14.1	6622	77	5.8	125	0.298
40-36.7722-102.8056-2-15-						0-N07649	5822	340	8533	56	-2	5.1	4.7	-196	-1	-1	7.9	2891	52	4.1	31	0.367
40-36.7628-102.7936-2-15-						0-N07650	16280	499	6794	100	-3	12.5	8.6	-258	-1	-1	16.2	4144	89	4.8	109	0.173
40-36.7703-102.7664-2-15-						0-N07651	9473	443	7112	64	-2	7.6	5.1	-200	-1		10.2	3785	65	2.7	67	0.284
40-36.7581-102.8456-2-15-						0-N07653	11150	455	6058	67	-2	8.4	5.7	-218	-1	-1	11.5	3315	80	4.6	118	0.261
40-36.7600-102.8469-2-15-						0-N07654	10970	500	7540	69	-3	8.4	7.9	-273	-1	-1	13.0	3658	78	5.5	99	0.246
40-36.8539-102.1039-2-15-						0-N07655	10670	404	8983	-26	-2	9.5	7.7	-221	-1	-1	16.7	4233	58	5.3	84	0.192
40-36.8644-102.0644-2-15-						0-N07657	9116	266	7314	48	-2	6.0	4.5	-178	-1	-1	9.4	3339	57	4.3	56	0.309
40-36.8503-102.0047-2-15-						0-N07659	10301	304	8224	66	-2	6.8	5.1	-209	-1	-1	10.2	3211	60	3.6	-74	0.255
40-36.8586-102.0104-2-15-						0-N07660	6521	135	6161	46	-2	6.6	6.4	-227	2	-1	11.8	4558	75	7.2	-57	0.424
40-36.8522-102.0089-2-15-						0-N07661	7678	449	6787	-24	-2	7.4	5.6	-204	1	-1	12.8	3609	64	8.3	-65	0.289
40-36.8197-102.0372-2-15-						0-N07664	12370	285	8522	60	-2	8.1	6.2	-219	-1	-1	12.3	3457	66	5.0	81	0.236
40-36.8094-102.0503-2-15-						0-N07665	11850	356	7674	-20	-2	6.2	5.2	-222	-1	-1	9.6	3012	59	3.5	44	0.302

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
40-	36.7764-	102.0253-	2-	15-		0-N07764-	06/17/79-	14-	38-		-	-	-	-	-	13-1-1-5-6-	-1-	-2-4-4-2-2-	-1-	-	-	-	-	-	3.20
40-	36.8314-	102.1244-	2-	15-		0-N07771-	06/17/79-	16-	39-		-	-	-	-	-	5-1-1-4-6-	-1-	-2-4-4-2-2-	-1-	-	-	-	-	-	2.00
40-	36.8706-	102.1561-	2-	15-		0-N07773-	06/17/79-	15-	38-		-	-	-	-	-	5-1-1-5-6-	-1-	-2-4-4-2-2-	-1-	-	-	-	-	-	2.90
40-	36.9133-	102.1831-	2-	15-		0-N07775-	06/17/79-	16-	39-		-	-	-	-	-	8-1-1-5-6-	-1-	-3-4-3-2-2-	-1-	-	-	-	-	-	3.70
40-	36.6483-	102.4742-	2-	15-		0-N07697-	06/16/79-	15-	38-		-	-	-	-	-	6-1-6-4-1-	-1-	-2-3-2-2-2-	-3-	-	-	-	-	-	4.50
40-	36.6075-	102.3508-	2-	15-		0-N07700-	06/16/79-	13-	33-		-C-	-	-	-	-	10-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	-	3.90
40-	36.6314-	102.3949-	2-	15-		0-N07701-	06/16/79-	13-	33-		-C-	-	-	-	-	3-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	-	4.10
40-	36.8964-	102.8547-	2-	15-		0-N07709-	06/17/79-	12-	32-		-C-	-	-	-	-	4-1-6-5-1-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	-	3.10
40-	36.8839-	102.8536-	2-	12-		0-N07710-	06/17/79-	12-	32-	31.4-	-C-	-	7.8-	430-	-	12-1-6-4-1-3-3-1-		2-4-3-2-2-	-3-	-	-	-	-	-	2.90
40-	36.9139-	102.8017-	2-	15-		0-N07711-	06/17/79-	12-	32-		-C-	-	-	-	-	12-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	-	3.30
40-	36.9203-	102.8533-	2-	15-		0-N07714-	06/17/79-	13-	32-		-C-	-	-	-	-	16-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	-	3.30
40-	36.9939-	102.8589-	2-	15-		0-N07716-	06/17/79-	14-	35-		-	-	-	-	-	6-1-6-5-6-	-1-	-2-2-2-2-1-	-3-	-	-	-	-	-	4.30
40-	36.9758-	102.8469-	2-	15-		0-N07719-	06/17/79-	14-	32-		-C-	-	-	-	-	10-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	-	2.30
40-	36.9617-	102.8085-	2-	15-		0-N07720-	06/17/79-	14-	32-		-C-	-	-	-	-	8-1-6-4-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	-	5.10
40-	36.9853-	102.7556-	2-	15-		0-N07723-	06/17/79-	15-	32-		-C-	-	-	-	-	4-1-1-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	-	3.30
40-	36.9589-	102.7458-	2-	12-		0-N07724-	06/17/79-	15-	32-	35.4-	-C-	-	7.7-	675-	-	4-1-1-5-6-3-3-1-		2-4-3-2-2-	-3-	-	-	-	-	-	4.50
40-	36.9606-	102.7139-	2-	15-		0-N07725-	06/17/79-	15-	32-		-C-	-	-	-	-	6-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	-	2.90
40-	36.9969-	102.7075-	2-	15-		0-N07726-	06/17/79-	15-	31-		-C-	-	-	-	-	8-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	-	3.20
40-	36.8839-	102.0647-	2-	15-		0-N07733-	06/16/79-	11-	30-		-	-	-	-	-	9-1-6-5-6-	-1-	-1-4-3-2-1-	-3-	-	-	-	-	-	2.70
40-	36.8783-	102.0450-	2-	15-		0-N07734-	06/16/79-	11-	31-		-	-	-	-	-	13-1-6-5-6-	-1-	-1-4-3-2-1-	-3-	-	-	-	-	-	2.70
40-	36.9094-	102.0697-	2-	15-		0-N07735-	06/16/79-	11-	32-		-	-	-	-	-	6-1-6-5-6-	-1-	-1-4-3-2-1-	-3-	-	-	-	-	-	2.80
40-	36.9778-	102.0431-	2-	15-		0-N07739-	06/16/79-	12-	34-		-	-	-	-	-	8-1-6-5-6-	-1-	-1-4-3-2-1-	-3-	-	-	-	-	-	3.60
40-	36.9575-	102.0954-	2-	15-		0-N07742-	06/16/79-	13-	34-		-	-	-	-	-	5-1-6-5-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	2.80
40-	36.9586-	102.1136-	2-	15-		0-N07744-	06/16/79-	13-	34-		-	-	-	-	-	9-1-6-5-6-	-1-	-1-4-3-2-1-	-3-	-	-	-	-	-	2.70
40-	36.9219-	102.1508-	2-	15-		0-N07746-	06/16/79-	14-	36-		-	-	-	-	-	4-1-6-5-6-	-1-	-1-4-3-2-1-	-3-	-	-	-	-	-	3.00
40-	36.9575-	102.1453-	2-	15-		0-N07748-	06/16/79-	14-	35-		-	-	-	-	-	9-1-6-5-6-	-1-	-1-4-3-2-1-	-3-	-	-	-	-	-	2.70
40-	36.9619-	102.2357-	2-	15-		0-N07751-	06/16/79-	15-	35-		-	-	-	-	-	3-1-6-4-1-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	4.80
40-	36.9436-	102.2475-	2-	15-		0-N07753-	06/16/79-	15-	37-		-	-	-	-	-	6-1-6-4-1-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	3.30
40-	36.9475-	102.2744-	2-	15-		0-N07754-	06/16/79-	15-	37-		-	-	-	-	-	6-1-6-4-1-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	4.00
40-	36.9769-	102.2844-	2-	15-		0-N07757-	06/16/79-	16-	34-		-	-	-	-	-	9-1-6-5-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-	-	3.50
40-	36.9075-	102.1711-	2-	15-		0-N07760-	06/16/79-	17-	35-		-	-	-	-	-	9-1-6-5-1-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	4.80
40-	36.8847-	102.1301-	2-	15-		0-N07762-	06/16/79-	17-	34-		-	-	-	-	-	4-1-6-5-6-	-1-	-1-4-3-2-1-	-3-	-	-	-	-	-	5.00
40-	36.8925-	102.3093-	2-	15-		0-N07767-	06/16/79-	18-	34-		-	-	-	-	-	3-1-6-4-1-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	4.30
40-	36.8925-	102.3114-	2-	15-		0-N07768-	06/16/79-	18-	34-		-	-	-	-	-	16-1-6-5-1-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	4.70
40-	36.8928-	102.3609-	2-	15-		0-N07769-	06/16/79-	19-	31-		-	-	-	-	-	5-1-6-5-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	4.60
40-	36.9164-	102.3539-	2-	15-		0-N07771-	06/16/79-	19-	31-		-	-	-	-	-	6-1-6-5-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	4.30
40-	36.9153-	102.3194-	2-	15-		0-N07772-	06/16/79-	19-	31-		-	-	-	-	-	4-1-6-4-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	5.70
40-	36.9231-	102.2986-	2-	15-		0-N07774-	06/16/79-	20-	29-		-	-	-	-	-	9-1-6-4-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	4.70
40-	36.9022-	102.5478-	2-	15-		0-N07776-	06/17/79-	11-	30-		-	-	-	-	-	18-1-6-4-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	5.00
40-	36.9008-	102.6125-	2-	15-		0-N07777-	06/17/79-	11-	30-		-	-	-	-	-	6-1-6-4-1-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	4.40
40-	36.8956-	102.5883-	2-	15-		0-N07778-	06/17/79-	12-	29-		-	-	-	-	-	10-1-6-4-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	3.60
40-	36.9356-	102.6142-	2-	15-		0-N07780-	06/17/79-	12-	31-		-	-	-	-	-	5-1-6-5-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	3.20
40-	36.9647-	102.5738-	2-	15-		0-N07783-	06/17/79-	14-	31-		-	-	-	-	-	5-1-6-5-1-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	3.50
40-	36.9853-	102.5706-	2-	15-		0-N07784-	06/17/79-	14-	32-		-	-	-	-	-	4-1-6-4-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	3.90
40-	36.9657-	102.5239-	2-	15-		0-N07787-	06/17/79-	15-	32-		-	-	-	-	-	9-1-6-5-1-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	4.30
40-	36.9794-	102.4817-	2-	15-		0-N07789-	06/17/79-	15-	32-		-	-	-	-	-	11-1-6-4-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	2.90
40-	36.9356-	102.5159-	2-	15-		0-N07791-	06/17/79-	15-	32-		-	-	-	-	-	6-1-6-5-1-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	4.00
40-	36.9436-	102.4572-	2-	15-		0-N07793-	06/17/79-	15-	32-		-	-	-	-	-	6-1-6-5-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	3.40
40-	36.9525-	102.4139-	2-	15-		0-N07795-	06/17/79-	16-	32-		-	-	-	-	-	9-1-6-4-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	3.70
40-	36.9839-	102.3951-	2-	15-		0-N07797-	06/17/79-	16-	32-		-	-	-	-	-	11-1-6-5-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	3.50
40-	36.9544-	102.3758-	2-	15-		0-N07798-	06/17/79-	16-	33-		-	-	-	-	-	6-1-6-5-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	2.90

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
40-36.7764-102.0253-2-15-						0-N07766	-5	-5	-5	19	-20	-15	10	-10	-15	2	15
40-36.8314-102.1044-2-15-						0-N07767	-5	-5	-5	17	-20	15	12	-10	-15	1	29
40-36.8706-102.1561-2-15-						0-N07772	-5	-5	-5	23	-20	-15	10	-10	-15	2	24
40-36.8133-102.1331-2-15-						0-N07775	-5	-5	-5	10	-20	-15	11	-10	-15	2	19
40-36.6483-102.4942-2-15-						0-N07697	-5	-5	-5	11	-20	-15	7	-10	-15	1	17
40-36.6075-102.3608-2-15-						0-N07700	-5	-5	-5	17	-20	-15	9	-10	-15	2	29
40-36.6314-102.3969-2-15-						0-N07701	-5	-5	-5	12	31	-15	14	-10	-15	1	15
40-36.8864-102.8547-2-15-						0-N07709	-5	-5	-5	17	26	-15	6	-10	-15	2	19
40-36.8839-102.8536-2-12-						0-N07710	-5	-5	-5	11	-20	-15	9	-10	-15	-1	8
40-36.9139-102.8017-2-15-						0-N07711	-5	-5	-5	28	-20	-15	23	-10	-15	2	33
40-36.9203-102.8433-2-15-						0-N07714	-5	-5	-5	22	-20	-15	12	-10	-15	2	32
40-36.9939-102.8589-2-15-						0-N07716	-5	-5	-5	20	-20	-15	11	-10	-15	1	17
40-36.9758-102.8469-2-15-						0-N07719	-5	-5	-5	10	-20	-15	-5	-10	-15	1	6
40-36.9617-102.8085-2-15-						0-N07720	-5	-5	-5	-10	-20	-15	11	-10	-15	1	5
40-36.9953-102.7556-2-15-						0-N07723	-5	-5	-5	16	-20	-15	13	-10	-15	2	11
40-36.9589-102.7458-2-12-						0-N07724	-5	-5	5	10	-20	-15	11	-10	-15	1	3
40-36.9606-102.7139-2-15-						0-N07725	-5	-5	-5	23	23	-15	10	-10	-15	2	15
40-36.9869-102.7075-2-15-						0-N07726	-5	-5	-5	22	-20	-15	19	-10	-15	2	33
40-36.8839-102.0647-2-15-						0-N07733	-5	-5	-5	20	-20	-15	7	-10	-15	2	47
40-36.8783-102.0650-2-15-						0-N07734	-5	-5	-5	22	21	-15	11	-10	-15	1	59
40-36.9094-102.0097-2-15-						0-N07735	-5	-5	-5	28	-20	-15	10	-10	-15	2	27
40-36.9778-102.0481-2-15-						0-N07739	-5	-5	-5	19	29	-15	16	-10	-15	1	8
40-36.9575-102.0964-2-15-						0-N07742	-5	-5	-5	17	32	18	12	-10	-15	1	24
40-36.9586-102.1186-2-15-						0-N07744	-5	-5	-5	27	-20	-15	21	-10	-15	2	27
40-36.9219-102.1308-2-15-						0-N07746	-5	-5	-5	24	24	-15	15	-10	-15	2	25
40-36.9575-102.1453-2-15-						0-N07749	-5	-5	-5	11	-20	-15	8	-10	-15	1	11
40-36.9619-102.2367-2-15-						0-N07751	-5	-5	-5	-10	-20	-15	9	-10	-15	1	15
40-36.9486-102.2475-2-15-						0-N07753	-5	-5	-5	14	30	-15	16	-10	-15	2	18
40-36.9475-102.2744-2-15-						0-N07754	-5	-5	-5	24	24	-15	9	-10	-15	1	11
40-36.9769-102.2244-2-15-						0-N07757	-5	-5	-5	21	-20	16	8	-10	-15	2	32
40-36.9075-102.1711-2-15-						0-N07760	-5	-5	-5	-10	-20	-15	5	-10	-15	1	4
40-36.8847-102.1361-2-15-						0-N07762	-5	-5	-5	17	-20	22	12	-10	-15	2	37
40-36.8925-102.3083-2-15-						0-N07767	-5	-5	-5	14	-20	-15	11	-10	-15	1	20
40-36.8925-102.3114-2-15-						0-N07768	-5	-5	-5	24	22	20	19	-10	-15	2	30
40-36.8928-102.3608-2-15-						0-N07769	-5	-5	-5	19	32	-15	13	-10	-15	1	23
40-36.9164-102.3539-2-15-						0-N07771	-5	-5	-5	33	-20	18	10	-10	-15	2	24
40-36.9153-102.3194-2-15-						0-N07773	-5	-5	-5	17	26	-15	9	-10	-15	1	11
40-36.9231-102.2986-2-15-						0-N07774	-5	-5	-5	15	29	-15	10	-10	-15	1	9
40-36.9022-102.5478-2-15-						0-N07776	-5	-5	-5	22	-20	-15	11	-10	-15	2	39
40-36.9008-102.6125-2-15-						0-N07777	-5	-5	-5	16	22	-15	6	-10	-15	1	16
40-36.8956-102.5883-2-15-						0-N07778	-5	-5	-5	16	24	-15	12	-10	-15	2	18
40-36.9356-102.6142-2-15-						0-N07780	-5	-5	-5	22	24	-15	20	-10	-15	2	22
40-36.9647-102.5728-2-15-						0-N07783	-5	-5	-5	19	-20	-15	9	-10	16	2	23
40-36.9853-102.5706-2-15-						0-N07784	-5	-5	-5	21	29	-15	13	-10	-15	2	18
40-36.9667-102.5239-2-15-						0-N07787	-5	-5	-5	23	43	-15	12	-10	-15	1	35
40-36.9794-102.4817-2-15-						0-N07790	-5	-5	-5	15	28	-15	10	-10	-15	1	16
40-36.9356-102.5169-2-15-						0-N07791	-5	-5	-5	15	33	-15	12	-10	-15	2	33
40-36.9436-102.4572-2-15-						0-N07793	-5	-5	-5	-10	25	-15	13	-10	-15	2	33
40-36.9525-102.4139-2-15-						0-N07795	-5	-5	-5	16	28	18	9	-10	-15	1	28
40-36.9839-102.3981-2-15-						0-N07797	4	4	4	19	19	14	12	9	14	2	20
40-36.9544-102.3758-2-15-						0-N07798	-5	-5	-5	19	21	-15	17	-10	-15	1	16

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	TYPE LAB	SAMPLE TYPE	REPLICATE		Al	As	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
40	36.7754	102.0253	2	15		0-N07666	55900	-0.39	562	10010	92	-69	7.1	43	3.6	6	1.4	20020	11.4	23810	31	0.4
40	36.8314	102.1044	2	15		0-N07671	62150	-0.38	731	29470	45	-59	5.8	33	3.3	4	0.7	16660	10.1	20370	26	0.4
40	36.8706	102.1561	2	15		0-N07672	65220	-0.37	621	33980	61	-68	6.4	41	3.1	5	0.8	19830	15.8	16610	33	0.5
40	36.8113	102.1331	2	15		0-N07675	62930	-0.37	554	17930	67	-59	5.8	45	2.8	6	1.3	19030	24.4	16610	34	0.6
40	36.6483	102.4942	2	15		0-N07682	35910	-0.39	537	16030	80	-67	4.4	56	1.6	7	1.2	19830	36.2	17420	31	0.8
40	36.6075	102.3608	2	15		0-N07700	62830	-0.82	515	20180	93	-70	11.6	72	6.0	6	1.7	38650	15.8	16570	52	0.7
40	36.63	102.3969	2	15		0-N07701	37900	-0.78	471	13900	58	-70	6.9	51	2.2	6	1.3	43020	26.0	15040	33	0.7
40	36.8854	102.8547	2	15		0-N07709	41750	-0.77	456	13140	57	-56	4.8	31	2.2	5	1.0	14260	12.5	11420	32	0.5
40	36.8839	102.8536	2	12		0-N07710	23510	-0.37	317	8966	47	-43	4.0	35	1.3	4	0.7	21930	20.1	7600	19	0.6
40	36.9139	102.8017	2	15		0-N07711	61900	-0.82	530	17080	90	-77	12.7	65	5.5	6	1.8	30050	13.2	17850	48	0.7
40	36.9203	102.8433	2	15		0-N07714	52760	-0.78	404	25550	69	-70	7.0	41	3.0	6	1.3	20710	13.5	16130	39	0.5
40	36.9939	102.8589	2	15		0-N07716	42320	-0.37	530	15340	70	171	5.4	43	2.2	6	1.5	20680	25.4	13630	32	0.6
40	36.9758	102.9469	2	15		0-N07719	25090	-0.36	324	6492	40	-31	2.6	32	2.0	4	0.8	9106	21.8	7777	18	0.4
40	36.9617	102.8086	2	15		0-N07720	38620	-0.39	413	11540	78	-75	7.0	72	-1.3	7	1.9	37460	44.7	15160	35	1.1
40	36.9853	102.7556	2	15		0-N07723	43020	-0.39	434	9438	74	-63	6.3	48	2.7	6	1.2	18570	18.0	13510	41	0.5
40	36.9589	102.7458	2	12		0-N07724	23560	-0.37	311	7818	54	255	4.5	57	-1.0	5	1.1	32720	36.8	7124	31	0.7
40	36.9606	102.7139	2	15		0-N07725	44350	-0.38	509	13900	62	-58	5.6	32	1.7	5	1.1	16160	12.1	13850	26	0.4
40	36.9869	102.7075	2	15		0-N07726	58010	-0.12	535	22840	88	-83	10.2	56	5.1	6	1.7	28650	12.1	17770	47	0.6
40	36.8839	102.0647	2	15		0-N07733	52260	-0.38	508	62450	62	-75	6.6	43	3.5	5	0.8	20790	8.9	18620	30	0.4
40	36.8783	102.0650	2	15		0-N07734	62400	-0.76	549	91690	53	-70	6.0	37	3.0	5	1.2	19570	10.4	16770	33	0.4
40	36.9094	102.0097	2	15		0-N07735	55990	-0.79	548	20390	79	-63	7.8	42	3.9	5	1.3	20980	11.7	21280	33	0.5
40	36.9778	102.0481	2	15		0-N07739	63990	-0.10	474	5182	91	-54	7.4	62	2.9	6	1.7	27550	33.2	16570	39	0.8
40	36.9575	102.0964	2	15		0-N07742	54060	-0.78	500	25400	70	-72	7.5	45	3.1	5	1.4	24300	11.9	20590	38	0.4
40	36.9586	102.1186	2	15		0-N07744	55590	-0.38	559	18930	65	-66	6.9	36	3.4	5	1.2	20990	10.5	19590	33	0.5
40	36.9219	102.1308	2	15		0-N07745	57830	-0.39	633	30340	85	-69	6.7	37	3.7	6	1.4	21350	12.4	19820	32	0.6
40	36.9575	102.1453	2	15		0-N07748	62400	-0.39	526	9495	72	-62	7.4	48	4.4	5	1.4	23290	20.3	16650	33	0.6
40	36.9619	102.2367	2	15		0-N07751	36170	-0.37	629	16290	34	-64	5.0	65	2.0	7	1.7	22780	45.0	14500	44	1.0
40	36.9486	102.2475	2	15		0-N07753	50900	-0.38	705	23730	55	-72	6.6	48	3.2	6	1.4	22170	16.3	20420	38	0.5
40	36.9475	102.2744	2	15		0-N07754	64490	-0.78	568	11550	75	-66	5.0	45	2.4	6	1.4	22100	28.0	17430	35	0.7
40	36.9769	102.2244	2	15		0-N07757	36110	-0.09	493	6205	67	-60	6.0	54	3.0	5	1.2	27610	33.2	14410	41	0.7
40	36.9075	102.1711	2	15		0-N07760	56130	-0.12	646	39350	82	-73	7.0	42	3.1	6	1.4	20390	15.4	20800	47	0.5
40	36.8847	102.1361	2	15		0-N07762	56940	-0.14	727	35560	91	-69	9.9	57	4.8	6	1.6	27860	13.6	21170	41	0.5
40	36.8925	102.3083	2	15		0-N07767	63910	-0.39	583	22000	61	-75	7.5	40	3.0	4	1.3	18720	9.7	21470	23	0.4
40	36.8925	102.3114	2	15		0-N07768	53810	-0.11	544	35850	60	-75	6.5	43	3.2	6	1.2	19940	10.3	15900	35	0.4
40	36.8928	102.3608	2	15		0-N07769	63710	-0.12	744	21610	72	-70	7.2	38	2.7	5	1.5	21030	11.7	20760	36	0.5
40	36.9164	102.3539	2	15		0-N07771	64190	-0.17	591	22220	93	-67	12.5	63	5.9	6	1.7	36600	8.7	21340	39	0.6
40	36.9153	102.3194	2	15		0-N07773	62740	-0.39	583	6993	65	114	4.7	42	2.3	6	1.2	17680	23.3	20080	37	0.7
40	36.9231	102.2986	2	15		0-N07774	63550	-0.39	562	20520	54	-73	5.4	43	2.5	5	0.9	24530	19.6	21020	36	0.6
40	36.9022	102.5478	2	15		0-N07776	49000	-0.11	500	36010	71	-58	5.4	42	3.1	5	1.2	17670	13.6	16480	35	0.5
40	36.9008	102.6125	2	15		0-N07777	35580	-0.12	434	14100	64	-62	5.3	43	2.7	6	1.3	24090	32.2	12790	-10	0.8
40	36.8956	102.5883	2	15		0-N07778	47690	-0.13	498	11700	60	-68	5.7	37	3.5	6	1.1	19440	11.4	16400	-14	0.5
40	36.9356	102.6142	2	15		0-N07780	52360	-0.17	514	19330	56	202	6.7	42	3.6	6	1.3	20730	12.3	16580	49	0.4
40	36.9547	102.5728	2	15		0-N07783	54420	-0.37	560	19270	83	-65	6.8	62	3.2	6	1.5	24760	17.6	17120	59	0.6
40	36.9953	102.5706	2	15		0-N07784	52210	-0.13	583	11470	70	-76	5.7	45	2.8	6	1.4	21990	18.8	19360	-14	0.7
40	36.9667	102.6239	2	15		0-N07787	54020	-0.13	611	38300	65	-69	5.3	37	3.0	5	1.3	18240	17.9	17310	-15	0.5
40	36.9794	102.4817	2	15		0-N07788	45990	-0.11	666	15550	51	-75	4.3	29	1.9	5	1.1	15470	12.0	22150	-16	0.4
40	36.9356	102.5149	2	15		0-N07791	49370	-0.16	620	45370	72	-70	5.3	38	3.3	5	1.3	17960	10.3	20900	37	0.5
40	36.9436	102.4572	2	15		0-N07793	52090	-0.18	471	25750	75	-71	8.4	52	4.0	5	1.6	25210	15.1	19480	34	0.6
40	36.9525	102.4139	2	15		0-N07795	41700	-0.13	579	35460	64	-76	5.8	43	3.7	6	1.3	17940	19.5	16250	31	0.6
40	36.9139	102.3981	2	15		0-N07797	50170	-0.12	565	14830	73	-76	6.5	47	2.2	6	1.4	21430	18.8	18320	47	0.6
40	36.9544	102.3758	2	15		0-N07798	50000	-0.16	595	11970	76	-71	5.1	45	2.7	5	1.2	19410	14.0	17160	37	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	
40-36.7764-102.0253-2-15-						0-N07764	10900	410	8947	73	-2	5.7	6.1	-222	-1	-1	11.1	3499	66	3.8	-70	0.289
40-36.8314-102.1044-2-15-						0-N07771	9206	197	6245	87	-2	5.2	3.6	-149	-1	-1	8.4	2512	47	2.9	56	0.238
40-36.8706-102.1561-2-15-						0-N07772	10650	297	6705	46	-2	6.0	5.1	-180	2	-1	9.1	3106	59	4.9	59	0.319
40-36.8133-102.1331-2-15-						0-N07775	6945	277	6509	45	-2	5.7	5.3	-207	-1	-1	11.8	3686	56	4.6	52	0.314
40-36.6493-102.4942-2-15-						0-N07697	5430	364	7370	44	-2	5.6	5.7	-133	-1	-1	11.7	4242	58	6.7		0.385
40-36.6075-102.3608-2-15-						0-N07700	13050	563	4958	90	-3	12.3	7.6	-245	-1	-1	16.3	4235	85	5.3	-59	0.239
40-36.6314-102.3969-2-15-						0-N07701	6216	527	7033	59	-2	6.6	5.3	-211	-1	-1	11.9	4566	95	5.6	-67	0.345
40-36.8864-102.8547-2-15-						0-N07709	6731	244	5894	52	-2	5.2	4.9	-181	2	-1	8.4	3313	49	3.5	38	0.369
40-36.8839-102.8536-2-12-						0-N07710	-1749	353	4019	32	-1	3.8	3.7	-165	-1	-1	7.1	3739	52	4.1	-27	0.408
40-36.9139-102.8017-2-15-						0-N07711	12710	459	6105	108	-3	10.5	7.8	-240	-1	-1	14.8	4308	71	4.5	131	0.223
40-36.9203-102.8433-2-15-						0-N07714	12000	300	6704	49	-2	7.6	5.8	-189	-1	-1	12.2	3428	69	3.7	45	0.270
40-36.9939-102.8589-2-15-						0-N07715	6734	307	9145	46	-2	5.9	6.4	-200	2	-1	11.1	3504	61	5.5	72	0.387
40-36.9758-102.8469-2-15-						0-N07718	4753	129	1927	-13	-1	3.6	2.5	134	-1		5.7	1993	33	2.8	36	0.404
40-36.9617-102.8086-2-15-						0-N07720	-2656	543	9701	43	-2	7.5	7.3	-209	1	-1	12.0	5876	77	9.7		0.425
40-36.9853-102.7556-2-15-						0-N07723	9000	287	6207	48	-2	6.6	5.4	-169	-1	-1	10.7	3771	52	3.6	31	0.308
40-36.9589-102.7458-2-12-						0-N07724	5433	388	4730	56	-2	4.9	5.1	-185	-1	-1	9.1	4349	72	5.1	63	0.495
40-36.9606-102.7139-2-15-						0-N07725	6433	267	6203	63	-2	5.7	5.4	-190	-1	-1	9.7	2923	51	4.5		0.299
40-36.9869-102.7075-2-15-						0-N07726	15560	368	8370	81	-3	9.4	7.3	-228	-1	-1	14.2	3707	69	6.0	118	0.225
40-36.8839-102.0547-2-15-						0-N07733	13400	270	7474	83	-2	7.0	4.0	411	-1		8.5	2971	73	3.9	54	0.318
40-36.8783-102.0650-2-15-						0-N07734	15370	293	6120	63	-2	6.5	5.2	291	-1	-1	9.1	2977	67	3.4	82	0.297
40-36.9094-102.0097-2-15-						0-N07735	13190	388	7997	57	-2	7.2	6.0	-210	-1	-1	11.7	3607	62	3.9	-24	0.239
40-36.9778-102.0481-2-15-						0-N07739	6903	350	6554	81	-2	7.8	7.1	-197	-1	-1	15.0	3675	64	6.7	80	0.240
40-36.9575-102.0964-2-15-						0-N07742	11740	365	6829	85	-2	7.7	-0.8	-198	-1	-1	11.9	3088	66	4.5	74	0.235
40-36.9586-102.1186-2-15-						0-N07744	11840	340	7185	57	-2	6.9	5.6	-222	-1	-1	11.1	3178	65	4.0	114	0.243
40-36.9219-102.1309-2-15-						0-N07745	12030	344	8529	76	-2	7.0	6.1	-214	-1	-1	11.5	3539	70	4.6	-72	0.261
40-36.9575-102.1453-2-15-						0-N07748	5675	295	6390	75	-2	6.8	5.8	-174	-1	-1	11.7	2712	51	5.1	75	0.231
40-36.9619-102.2367-2-15-						0-N07751	7201	327	7214	-20	-2	5.8	6.2	-166	1	1	13.8	4223	58	7.5	72	0.348
40-36.9486-102.2475-2-15-						0-N07753	10950	359	9902	52	-2	6.7	6.0	433	-1	-1	10.6	3599	71	4.8	98	0.311
40-36.9475-102.2744-2-15-						0-N07754	7020	377	9788	50	-2	5.5	5.5	-208	-1	-1	12.2	4470	58	5.2	79	0.328
40-36.9759-102.2244-2-15-						0-N07757	6727	376	6170	51	-2	6.5	5.3	-181	-1	-1	11.8	3775	56	6.8	56	0.297
40-36.9075-102.1711-2-15-						0-N07760	10880	356	9139	81	-3	5.9	5.7	-231	-1	-1	11.1	3327	72	4.9	77	0.432
40-36.8847-102.1361-2-15-						0-N07763	11750	311	8193	-29	-3	9.5	8.0	420	-1	-1	14.9	4010	74	6.1	114	0.336
40-36.8925-102.3083-2-15-						0-N07767	8336	359	9321	-20	-2	6.2	4.8	-197	-1	-1	9.0	2589	53	3.6	-47	0.478
40-36.8925-102.3114-2-15-						0-N07768	13020	358	8049	62	-2	7.1	5.0	-198	-1	-1	11.0	3415	65	-1.5	120	0.427
40-36.8928-102.3668-2-15-						0-N07769	12050	426	9117	70	-3	5.8	6.2	-231	-1	-1	10.0	3594	69	4.1	-22	0.460
40-36.9164-102.3539-2-15-						0-N07771	15120	554	7029	111	-4	12.0	8.5	-253	-1	-1	15.2	4060	90	4.1	120	0.283
40-36.9153-102.3194-2-15-						0-N07772	5965	300	9371	59	-2	5.5	4.4	-187	-1	-1	10.0	4018	51	5.3	-56	0.570
40-36.9231-102.2986-2-15-						0-N07774	6707	403	9493	62	-2	5.4	5.4	-190	-1	1	9.4	3673	60	5.7	49	0.500
40-36.9022-102.5478-2-15-						0-N07776	15050	280	5324	53	-3	6.2	5.7	-199	-1	-1	10.1	3193	50	5.7	38	0.495
40-36.9008-102.6125-2-15-						0-N07777	6560	295	5508	-21	-3	5.6	6.3	-184	-1	-1	11.8	4201	61	6.7	36	0.373
40-36.8956-102.5883-2-15-						0-N07778	13310	260	4049	51	-3	6.6	5.8	-182	-1	-1	9.9	3311	58	4.6	105	0.364
40-36.9356-102.5142-2-15-						0-N07780	12250	415	6043	45	-4	7.0	4.7	-248	-1	-1	9.9	3274	59	-2.3	-55	0.323
40-36.9647-102.5728-2-15-						0-N07783	11020	330	7431	76	-4	9.0	6.8	-211	-1	-1	14.8	3630	64	6.0	80	0.236
40-36.9853-102.5706-2-15-						0-N07784	7956	368	8552	49	-3	6.7	5.9	-206	-1	-1	10.9	4443	69	5.9	69	0.358
40-36.9667-102.5239-2-15-						0-N07787	13140	350	6244	-21	-3	6.3	5.5	-195	-1	-1	10.1	3107	49	5.4	-68	0.426
40-36.9794-102.4817-2-15-						0-N07790	6703	330	10100	63	-3	4.8	4.5	-171	-1	-1	7.9	2650	52	3.8	61	0.367
40-36.9356-102.5169-2-15-						0-N07791	26050	475	5711	-23	-4	5.6	4.0	-258	-1	-1	8.9	2816	54	5.8	69	0.449
40-36.9436-102.4572-2-15-						0-N07793	14940	421	6734	70	-4	8.5	5.9	-221	-1	1	12.2	3149	59	5.6	66	0.279
40-36.9525-102.4139-2-15-						0-N07795	18130	372	8600	59	-3	6.3	4.7	-202	-1	-1	10.5	4226	57	6.4	38	0.352
40-36.9839-102.3981-2-15-						0-N07797	11380	441	9714	67	-3	6.6	7.2	-199	-1	-1	11.6	3441	54	4.4	96	0.302
40-36.9544-102.3758-2-15-						0-N07798	10250	398	8291	52	-3	6.3	6.5	-233	-1	-1	11.8	3194	53	-2.3	-60	0.246

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
40-36.9554-102.5053-2-15-						0-N07831-06/17/78-17-			31-		-	-	-	-	-	10-1-5-5-1-	-1-	-1-4-3-2-1-	-1-	-	-	-	-										2.00
40-36.9031-102.4831-2-15-						0-N07834-06/17/78-18-			30-		-	-	-	-	-	5-1-6-5-5-	-1-	-1-4-3-2-1-	-1-	-	-	-	-										2.60
40-36.9081-102.4814-2-15-						0-N07835-06/17/78-18-			31-		-	-	-	-	-	3-1-5-4-5-	-1-	-1-4-3-2-1-	-1-	-	-	-	-										3.60
40-36.9250-102.4319-2-15-						0-N07837-06/18/78-19-			30-		-	-	-	-	-	9-1-6-5-5-	-1-	-1-4-3-2-1-	-1-	-	-	-	-										2.80
40-36.9222-102.3769-2-15-						0-N07838-06/17/78-19-			30-		-	-	-	-	-	6-1-6-5-5-	-1-	-2-4-3-2-1-	-1-	-	-	-	-										3.00
40-36.8917-102.4850-2-15-						0-N07812-06/18/78-10-			34-		-	-	-	-	-	11-1-1-4-5-	-1-	-2-4-3-2-3-	-1-	-	-	-	-										3.10
40-36.9169-102.5142-2-15-						0-N07814-06/18/78-11-			34-		-	-	-	-	-	5-1-1-4-6-	-1-	-2-4-3-2-3-	-1-	-	-	-	-										3.00
40-36.9256-102.4747-2-15-						0-N07816-06/18/78-11-			34-		-	-	-	-	-	8-1-1-4-6-	-1-	-2-4-3-2-3-	-1-	-	-	-	-										3.60
40-36.9247-102.4817-2-15-						0-N07817-06/18/78-11-			34-		-	-	-	-	-	9-1-1-5-6-	-1-	-2-4-3-2-3-	-1-	-	-	-	-										3.90
40-36.8628-102.5125-2-15-						0-N07821-06/18/78-15-			30-		-	-	-	-	-	8-1-6-5-6-	-1-	-2-4-2-2-2-	-3-	-	-	-	-										3.30
40-36.8706-102.5258-2-15-						0-N07822-06/18/78-16-			30-		-	-	-	-	-	18-1-5-5-6-	-1-	-2-4-2-2-2-	-3-	-	-	-	-										3.10
40-36.8589-102.5244-2-15-						0-N07823-06/18/78-15-			30-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-4-2-2-2-	-3-	-	-	-	-										4.30
40-36.7694-102.5183-2-15-						0-N07826-06/18/78-17-			30-		-	-	-	-	-	16-1-6-5-6-	-1-	-2-4-2-1-2-	-3-	-	-	-	-										2.60
40-36.9422-102.4350-2-15-						0-N07832-06/17/78-15-			31-		-C-	-	-	-	-	6-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.30
40-36.9414-102.4529-2-15-						0-N07830-06/17/78-16-			30-		-C-	-	-	-	-	13-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.30
40-36.9544-102.4619-2-15-						0-N07831-06/17/78-17-			30-		-C-	-	-	-	-	11-1-6-2-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.40
40-36.8358-102.4911-2-15-						0-N07841-06/18/78-11-			26-		-	-	-	-	-	6-1-6-5-6-	-1-	-2-3-2-2-2-	-3-	-	-	-	-										2.80
40-36.8814-102.4975-2-15-						0-N07846-06/18/78-12-			28-		-	-	-	-	-	12-1-6-5-6-	-1-	-2-4-2-1-2-	-3-	-	-	-	-										2.40
40-36.8958-102.4103-2-15-						0-N07848-06/18/78-13-			28-		-	-	-	-	-	12-1-6-5-6-	-1-	-2-3-2-1-2-	-3-	-	-	-	-										3.70
40-36.9461-102.5892-2-15-						0-N07853-06/18/78-14-			30-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-4-2-2-2-	-3-	-	-	-	-										3.00
40-36.8351-102.2028-2-15-						0-N07861-06/17/78-19-			34-		-	-	-	-	-	8-1-1-5-6-	-1-	-3-4-3-2-2-	-1-	-	-	-	-										3.00
40-36.8286-102.2181-2-15-						0-N07862-06/17/78-19-			34-		-	-	-	-	-	5-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-										3.10
40-36.8736-102.5542-2-15-						0-N07864-06/18/78-12-			26-		-	-	-	-	-	6-1-1-5-6-	-1-	-3-4-4-2-3-	-1-	-	-	-	-										5.70
40-36.8703-102.5533-2-15-						0-N07865-06/18/78-12-			26-		-	-	-	-	-	8-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-										4.60
40-36.8447-102.5292-2-15-						0-N07866-06/18/78-12-			34-		-	-	-	-	-	5-1-1-5-6-	-1-	-3-4-4-2-2-	-1-	-	-	-	-										3.20
40-36.8300-102.5494-2-15-						0-N07867-06/18/78-12-			35-		-	-	-	-	-	9-1-1-4-6-	-1-	-2-4-3-2-2-	-1-	-	-	-	-										2.50
40-36.8294-102.5778-2-15-						0-N07868-06/18/78-13-			34-		-	-	-	-	-	9-1-1-5-6-	-1-	-2-4-3-2-2-	-1-	-	-	-	-										3.30
40-36.7833-102.5911-2-15-						0-N07874-06/18/78-14-			34-		-	-	-	-	-	5-1-1-4-1-	-1-	-2-4-2-2-2-	-1-	-	-	-	-										10.60
40-36.7569-102.7255-2-15-						0-N07875-06/18/78-15-			34-		-	-	-	-	-	7-1-1-5-6-	-1-	-2-3-4-2-1-	-1-	-	-	-	-										3.60
40-36.8061-102.7208-2-15-						0-N07877-06/18/78-15-			34-		-	-	-	-	-	6-1-1-5-6-	-1-	-2-4-4-2-2-	-1-	-	-	-	-										4.00
40-36.7050-102.1411-2-15-						0-N07881-06/17/78-17-			33-		-	-	-	-	-	4-1-1-5-6-	-1-	-1-4-2-2-2-	-3-	-	-	-	-										2.90
40-36.7003-102.1586-2-15-						0-N07882-06/17/78-17-			30-		-	-	-	-	-	12-1-1-5-6-	-1-	-1-4-3-2-2-	-3-	-	-	-	-										2.60
40-36.6944-102.1586-2-15-						0-N07883-06/17/78-17-			30-		-	-	-	-	-	6-1-1-5-6-	-1-	-1-4-3-2-2-	-3-	-	-	-	-										3.20
40-36.6639-102.1403-2-15-						0-N07885-06/17/78-18-			35-		-	-	-	-	-	8-1-1-5-6-	-1-	-1-4-3-3-2-	-3-	-	-	-	-										2.70
40-36.7833-102.5292-2-15-						0-N07903-06/18/78-10-			28-		-C-	-	-	-	-	12-1-5-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.30
40-36.7893-102.5900-2-15-						0-N07904-06/18/78-10-			28-		-C-	-	-	-	-	13-1-5-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.50
40-36.8731-102.5489-2-15-						0-N07910-06/18/78-12-			28-		-C-	-	-	-	-	18-1-5-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.30
40-36.8742-102.5631-2-15-						0-N07911-06/18/78-12-			30-		-C-	-	-	-	-	10-1-5-4-1-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.50
40-36.8578-102.4244-2-15-						0-N07915-06/18/78-14-			30-		-C-	-	-	-	-	6-1-5-4-1-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										4.30
40-36.8153-102.4281-2-15-						0-N07917-06/18/78-14-			30-		-C-	-	-	-	-	16-1-5-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.00
40-36.8603-102.4567-2-15-						0-N07919-06/18/78-14-			30-		-C-	-	-	-	-	15-1-5-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.50
40-36.8628-102.4728-2-15-						0-N07920-06/18/78-15-			30-		-C-	-	-	-	-	13-1-5-4-5-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.10
40-36.8517-102.4963-2-15-						0-N07922-06/18/78-15-			30-		-C-	-	-	-	-	6-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										3.00
40-36.7867-102.4814-2-15-						0-N07923-06/18/78-15-			30-		-C-	-	-	-	-	6-1-6-5-6-	-1-	-2-4-3-2-2-	-3-	-	-	-	-										2.40

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	LAST 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
40-36.9664-102.3053-2-15-						0-N07890	-5	-5	-5	19	26	-15	11	-10	-15	1	33
40-36.9031-102.4831-2-15-						0-N07890	-5	-5	-5	17	22	-15	9	-10	-15	1	20
40-36.9081-102.4514-2-15-						0-N07890	-5	-5	-5	13	35	-15	-5	-10	-15	1	27
40-36.9250-102.4119-2-15-						0-N07890	-5	-5	-5	25	32	-15	12	-10	-15	2	28
40-36.9222-102.3769-2-15-						0-N07890	-5	-5	-5	29	23	-15	23	-10	-15	2	17
40-36.8917-102.6850-2-15-						0-N07891	-5	-5	-5	15	35	-15	8	-10	-15	1	12
40-36.8869-102.7142-2-15-						0-N07891	-5	-5	-5	17	29	-15	18	-10	-15	1	15
40-36.9256-102.6747-2-15-						0-N07891	-5	-5	-5	11	33	-15	5	-10	-15	1	18
40-36.9247-102.6917-2-15-						0-N07891	-5	-5	-5	19	-20	23	5	-10	-15	2	26
40-36.8628-102.5125-2-15-						0-N07892	-5	-5	-5	29	29	-15	9	-10	-15	1	24
40-36.8706-102.5258-2-15-						0-N07892	-5	-5	-5	17	33	16	17	-10	-15	2	29
40-36.8689-102.5244-2-15-						0-N07892	-5	-5	-5	17	37	-15	12	-10	-15	1	15
40-36.7694-102.5183-2-15-						0-N07892	-5	-5	-5	26	-20	19	12	-10	-15	2	16
40-36.9422-102.6350-2-15-						0-N07893	-5	-5	-5	23	28	-15	13	-10	-15	2	22
40-36.9414-102.6528-2-15-						0-N07893	-5	-5	-5	18	44	18	16	-10	-15	2	19
40-36.9544-102.6619-2-15-						0-N07893	-5	-5	-5	25	33	20	16	-10	-15	2	18
40-36.6358-102.6911-2-15-						0-N07894	-5	-5	-5	17	-20	-15	14	-10	-15	1	8
40-36.6814-102.6975-2-15-						0-N07894	-5	-5	-5	20	-20	-15	8	-10	-15	2	17
40-36.6958-102.7103-2-15-						0-N07894	-5	-5	-5	24	27	24	9	-10	-15	2	11
40-36.8461-102.5892-2-15-						0-N07895	-5	-5	-5	20	33	-15	9	-10	-15	2	16
40-36.8361-102.2028-2-15-						0-N07896	-5	-5	-5	30	-20	19	16	-10	19	2	16
40-36.8286-102.2181-2-15-						0-N07896	-5	-5	-5	-10	32	-15	21	-10	-15	2	33
40-36.8736-102.6542-2-15-						0-N07896	-5	-5	-5	19	35	-15	5	-10	-15	1	14
40-36.8703-102.6533-2-15-						0-N07896	-5	-5	-5	22	30	-15	16	-10	-15	1	14
40-36.8447-102.6292-2-15-						0-N07896	-5	-5	-5	22	30	-15	-5	-10	-15	1	18
40-36.8300-102.6494-2-15-						0-N07896	-5	-5	-5	14	39	-15	14	-10	-15	1	17
40-36.8294-102.6778-2-15-						0-N07896	-5	-5	-5	35	29	29	15	-10	-15	2	19
40-36.7833-102.6911-2-15-						0-N07897	-5	-5	-5	-10	31	18	-5	-10	22	-1	3
40-36.7569-102.7256-2-15-						0-N07897	-5	-5	-5	22	30	-15	5	-10	-15	2	13
40-36.8061-102.7208-2-15-						0-N07897	-5	-5	-5	29	36	16	7	-10	-15	2	39
40-36.7050-102.1411-2-15-						0-N07898	-5	-5	-5	26	33	-15	9	-10	-15	1	21
40-36.7003-102.1586-2-15-						0-N07898	-5	-5	-5	21	29	-15	10	-10	-15	1	41
40-36.6944-102.1586-2-15-						0-N07898	-5	-5	-5	15	49	16	5	-10	-15	1	27
40-36.6639-102.1403-2-15-						0-N07898	-5	-5	-5	17	23	23	6	-10	-15	1	9
40-36.7833-102.3292-2-15-						0-N07900	-5	-5	-5	16	25	-15	16	-10	-15	2	17
40-36.7883-102.2900-2-15-						0-N07900	-5	-5	-5	29	34	-15	17	-10	-15	2	35
40-36.8731-102.3489-2-15-						0-N07901	-5	-5	-5	18	-20	-15	11	-10	-15	2	18
40-36.8742-102.3631-2-15-						0-N07901	-5	-5	-5	22	35	-15	12	-10	-15	2	7
40-36.8678-102.4244-2-15-						0-N07901	-5	-5	-5	28	23	22	11	-10	-15	2	39
40-36.8158-102.4291-2-15-						0-N07901	-5	-5	-5	43	-20	29	29	-10	-15	2	6
40-36.8503-102.4567-2-15-						0-N07901	-5	-5	-5	-10	27	25	23	-10	-15	2	19
40-36.8628-102.4728-2-15-						0-N07902	-5	-5	-5	-10	28	-15	8	-10	-15	2	22
40-36.8517-102.4969-2-15-						0-N07902	-5	-5	-5	19	37	-15	14	-10	-15	2	22
40-36.7867-102.4814-2-15-						0-N07902	-5	-5	-5	26	-20	-15	16	-10	-15	2	12

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	IAS 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
40-	36.9664-	102.3053-	2-	15-	0-	N07901	33440	-0.16	623	52550	53	-72	5.6	28	-1.3	4	0.8	21800	11.5	15950	28	0.5
40-	36.9631-	102.4831-	2-	15-	0-	N07904	37150	-0.12	459	23600	49	-61	4.6	40	2.2	4	1.1	13760	12.6	15050	-15	0.3
40-	36.9081-	102.4514-	2-	15-	0-	N07906	44370	-0.13	655	25950	60	-72	5.5	37	2.2	6	1.3	16380	15.5	17600	33	0.6
40-	36.9250-	102.4119-	2-	15-	0-	N07907	50410	-0.16	594	35150	68	-71	6.4	41	3.7	5	1.3	19220	11.6	18490	-17	0.5
40-	36.9222-	102.3769-	2-	15-	0-	N07908	61970	-0.22	796	13560	86	-77	10.0	48	4.2	6	1.7	30530	13.3	20430	75	0.5
40-	36.8917-	102.6850-	2-	15-	0-	N07912	34130	-0.12	411	8321	55	-52	6.4	39	2.0	5	1.0	16380	19.3	11010	-14	0.6
40-	36.8869-	102.7142-	2-	15-	0-	N07914	37050	-0.12	553	13930	54	-63	5.5	28	2.1	5	1.1	16780	14.0	13620	23	0.4
40-	36.9256-	102.6747-	2-	15-	0-	N07916	43000	-0.14	495	14100	64	-59	4.8	45	2.9	5	1.2	14710	17.5	15380	28	0.5
40-	36.9247-	102.6917-	2-	15-	0-	N07917	49440	-0.18	587	19660	86	-67	8.3	55	3.7	6	1.5	25650	22.0	16500	34	0.7
40-	36.8628-	102.5125-	2-	15-	0-	N07921	47430	-0.15	470	33420	65	-65	6.4	44	3.5	5	1.2	19730	10.6	13880	34	0.4
40-	36.8706-	102.5258-	2-	15-	0-	N07922	54960	-0.15	631	19870	66	-78	6.8	41	3.1	6	1.3	21080	10.2	19660	42	0.4
40-	36.8689-	102.5244-	2-	15-	0-	N07923	41550	-0.14	472	11960	80	-56	5.6	39	2.1	5	1.3	15720	23.6	14770	-16	0.7
40-	36.7694-	102.5183-	2-	15-	0-	N07926	51420	-0.18	508	7925	76	-69	9.7	48	4.0	5	1.5	26700	12.9	16690	-18	0.5
40-	36.9422-	102.6350-	2-	15-	0-	N07929	48560	-0.14	464	14910	60	-74	5.9	37	3.0	5	1.2	18210	13.3	17730	31	0.4
40-	36.9414-	102.6528-	2-	15-	0-	N07930	50130	-0.14	538	7738	61	-71	6.6	37	3.1	5	1.2	19280	10.1	16140	-14	0.4
40-	36.9544-	102.6619-	2-	15-	0-	N07931	61150	-0.19	577	9235	95	-72	8.4	49	4.5	6	1.3	21480	11.5	20600	-18	0.4
40-	36.6358-	102.6911-	2-	15-	0-	N07941	39450	-0.15	493	6367	62	-68	6.2	46	2.3	5	1.2	21030	21.8	14650	44	0.6
40-	36.6814-	102.6975-	2-	15-	0-	N07944	42930	-0.12	494	7040	53	-64	5.5	31	2.2	5	1.0	16270	13.0	19280	37	0.4
40-	36.6958-	102.7103-	2-	15-	0-	N07949	47840	-0.14	504	6211	64	-75	6.0	47	2.9	6	1.3	20290	20.4	19800	34	0.6
40-	36.8451-	102.5892-	2-	15-	0-	N07953	44000	-0.15	531	14190	76	-65	5.0	41	2.4	5	1.3	25100	16.3	16820	43	0.6
40-	36.8361-	102.2029-	2-	15-	0-	N07961	54230	-0.20	653	17150	92	-71	8.9	53	4.5	5	1.5	27720	15.9	21780	-19	0.6
40-	36.8286-	102.2181-	2-	15-	0-	N07962	54930	-0.15	658	25180	93	-66	7.5	47	2.9	6	1.2	22080	14.0	16830	35	0.6
40-	36.8736-	102.6542-	2-	15-	0-	N07954	36650	-0.16	651	13230	56	188	5.8	40	-1.4	5	1.4	17660	18.8	13040	-17	0.6
40-	36.8703-	102.6533-	2-	15-	0-	N07945	43930	-0.13	459	12470	72	-67	7.1	44	3.0	5	1.1	17880	16.5	15800	36	0.5
40-	36.8447-	102.6292-	2-	15-	0-	N07946	30810	-0.12	361	10940	48	252	5.4	29	1.8	4	0.9	14390	14.5	9397	-14	0.4
40-	36.8300-	102.6494-	2-	15-	0-	N07947	37960	-0.12	487	25360	60	-56	4.4	30	1.9	4	0.9	14070	12.5	12030	-12	0.5
40-	36.8294-	102.6773-	2-	15-	0-	N07948	54490	-0.18	641	12660	80	-82	9.4	57	3.7	5	1.6	30770	19.2	20160	40	0.7
40-	36.7833-	102.6911-	2-	15-	0-	N07974	29660	-0.15	484	14170	115	-82	7.4	108	2.4	11	2.1	65020	97.2	9944	92	2.4
40-	36.7569-	102.7256-	2-	15-	0-	N07975	51320	-0.14	524	13240	74	-74	7.8	50	3.8	6	1.2	27100	21.0	16620	51	0.6
40-	36.8061-	102.7208-	2-	15-	0-	N07977	56320	-0.17	749	36740	99	112	8.3	59	3.8	7	1.5	34900	18.4	22450	40	0.7
40-	36.7050-	102.1411-	2-	15-	0-	N07981	50470	-0.17	590	9055	81	-81	8.7	53	4.1	5	1.5	26720	15.3	18370	59	0.6
40-	36.7003-	102.1586-	2-	15-	0-	N07982	41900	-0.12	751	57630	55	-69	6.1	38	2.9	4	0.5	20230	12.9	17100	-14	0.4
40-	36.6944-	102.1586-	2-	15-	0-	N07983	34930	-0.11	694	40440	51	-60	5.1	44	1.8	5	0.6	17650	22.3	16050	39	0.5
40-	36.6639-	102.1403-	2-	15-	0-	N07985	43890	-0.14	559	12960	66	-57	5.9	41	3.1	5	1.1	19920	13.5	17950	38	0.5
40-	36.7833-	102.3292-	2-	15-	0-	N07993	57750	-0.19	648	11760	101	-72	10.6	52	5.2	6	1.8	31660	17.9	20950	-20	0.6
40-	36.7883-	102.2900-	2-	15-	0-	N07994	58940	-0.15	663	22050	85	-78	8.5	54	4.8	6	1.5	26370	13.3	18900	-17	0.7
40-	36.8731-	102.3489-	2-	15-	0-	N07910	52490	-0.14	708	14750	64	-85	7.6	45	3.1	6	1.3	22600	13.6	19270	-13	0.5
40-	36.8742-	102.3631-	2-	15-	0-	N07911	52900	-0.15	618	15120	83	-72	8.0	43	3.1	6	1.3	20930	17.3	17810	38	0.6
40-	36.8678-	102.4244-	2-	15-	0-	N07916	53050	-0.17	602	24020	100	-73	10.3	64	4.2	7	1.9	38870	28.2	21800	60	0.9
40-	36.8158-	102.4281-	2-	15-	0-	N07917	68390	-0.16	635	9175	95	-72	9.1	61	5.1	3	1.5	31160	8.2	20910	-17	0.4
40-	36.8603-	102.4567-	2-	15-	0-	N07919	49350	-0.13	520	5849	67	-73	6.9	45	3.1	6	1.2	19290	17.7	19500	-13	0.6
40-	36.8628-	102.4728-	2-	15-	0-	N07920	40000	-0.13	638	31550	56	-63	4.3	32	2.5	5	1.1	14770	14.5	17130	-10	0.5
40-	36.8517-	102.4969-	2-	15-	0-	N07922	45090	-0.16	450	44250	63	-65	6.9	36	3.2	4	1.3	22730	11.8	15990	36	0.5
40-	36.7867-	102.4914-	2-	15-	0-	N07923	43930	-0.11	551	9566	69	-65	6.9	39	2.8	4	1.1	17880	13.8	18190	31	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	
40-	36.9654-	102.3053-2-15-				0-N07901	8805	276	4130	-24	-4	5.0	5.1	-181	-1	-1	8.4	2332	44	3.6	96	0.238
40-	36.9031-	102.4831-2-15-				0-N07904	13030	244	5704	50	-3	5.1	4.1	-168	-1	-1	7.3	3215	40	4.9	59	0.356
40-	36.9081-	102.4514-2-15-				0-N07905	11330	267	8387	70	-3	5.9	4.8	265	-1	-1	10.2	3553	56	5.1	56	0.353
40-	36.9250-	102.4119-2-15-				0-N07907	19220	370	7957	65	-4	6.7	5.4	-237	-1	-1	9.7	3256	61	-2.4	72	0.289
40-	36.9222-	102.3769-2-15-				0-N07908	14590	462	8157	103	-5	10.4	9.4	-266	-1	-1	14.7	3596	72	6.1	119	0.204
40-	36.8917-	102.6850-2-15-				0-N07912	6583	236	4595	-20	-3	5.4	4.9	-149	-1		8.8	3578	48	5.0	47	0.352
40-	36.8869-	102.7142-2-15-				0-N07914	4399	310	5703	47	-3	5.2	5.4	-171	-1	-1	8.7	2659	46	3.9	-57	0.345
40-	36.9256-	102.6747-2-15-				0-N07916	9209	241	4900	44	-3	5.3	5.6	-182	-1	-1	9.3	3256	51	5.3	-36	0.387
40-	36.9247-	102.6917-2-15-				0-N07917	10910	350	9209	65	-4	8.8	8.0	274	-1	-1	14.4	3983	58	5.3	53	0.271
40-	36.9528-	102.5125-2-15-				0-N07921	13200	305	5240	71	-4	6.9	-1.7	-186	-1	1	11.0	3127	61	2.8	-30	0.300
40-	36.8706-	102.5258-2-15-				0-N07922	13520	420	7447	-25	-4	7.7	6.6	-216	-1	-1	12.1	3348	63	4.5	92	0.256
40-	36.8689-	102.5244-2-15-				0-N07923	7085	240	4304	45	-3	5.5	7.9	-180	-1	-1	11.8	3945	52	5.2	81	0.364
40-	36.7694-	102.5183-2-15-				0-N07924	11140	410	4390	-30	-4	9.1	7.9	-212	-1	-1	12.1	3149	55	4.8	69	0.215
40-	36.9422-	102.6350-2-15-				0-N07929	10560	289	7658	-22	-3	5.4	5.8	-191	-1	-1	10.1	3186	58	-1.9	-23	0.327
40-	36.9414-	102.6528-2-15-				0-N07930	8875	300	4837	64	-3	5.8	6.1	-191	-1	-1	10.6	3017	58	3.7	-41	0.311
40-	36.9544-	102.6619-2-15-				0-N07931	14670	462	7212	67	-4	7.9	8.4	-263	-1	-1	13.4	3935	75	4.2	-106	0.254
40-	36.6358-	102.6911-2-15-				0-N07941	6083	288	7287	49	-3	5.2	6.3	-174	-1	-1	10.8	2936	43	5.5	44	0.259
40-	36.6314-	102.6975-2-15-				0-N07945	6920	270	7043	58	-3	5.4	4.3	-172	-1	-1	7.7	2816	42	-1.6	36	0.312
40-	36.6958-	102.7103-2-15-				0-N07948	6203	362	8564	82	-3	6.5	4.7	-196	-1	-1	11.8	4189	59	5.3	88	0.314
40-	36.8461-	102.5892-2-15-				0-N07953	7510	507	7035	56	-3	6.3	5.0	-234	-1	-1	9.5	4788	65	5.2	60	0.316
40-	36.8361-	102.2028-2-15-				0-N07961	14640	409	9126	59	-4	8.8	7.0	-247	-1	-1	13.8	3630	61	4.5	-81	0.217
40-	36.8286-	102.2151-2-15-				0-N07962	14070	370	7309	79	-4	7.4	7.0	-223	-1	-1	13.0	3556	67	4.8	67	0.238
40-	36.8736-	102.6542-2-15-				0-N07964	9663	245	5599	-26	-4	5.4	7.9	468	-1	-1	10.9	3024	50	6.1	59	0.523
40-	36.8703-	102.6533-2-15-				0-N07965	8081	420	5594	56	-3	6.4	5.9	-217	-1	-1	10.7	3475	46	4.1	64	0.430
40-	36.8447-	102.6292-2-15-				0-N07966	6807	260	5470	49	-3	4.7	5.5	-171	-1	-1	7.6	2923	44	-1.6	51	0.421
40-	36.8300-	102.6494-2-15-				0-N07967	6150	268	5921	-18	-3	4.7	4.3	-181	-1	-1	7.1	2722	45	4.3	27	0.352
40-	36.8294-	102.6778-2-15-				0-N07968	9103	409	9738	109	-4	9.1	7.6	-231	-1	-1	14.6	3776	62	5.1	78	0.226
40-	36.7833-	102.6911-2-15-				0-N07974	-3307	968	5710	44	-3	10.8	11.9	-305	4	1	20.3	9329	138	17.6	69	0.522
40-	36.7569-	102.7256-2-15-				0-N07975	8465	436	7472	58	-3	7.1	7.3	-210	-1	-1	11.7	3615	76	5.2	113	0.308
40-	36.8061-	102.7208-2-15-				0-N07977	14790	504	6714	62	-4	8.3	8.3	-257	-1	-1	13.7	4436	86	7.0	110	0.292
40-	36.7950-	102.1411-2-15-				0-N07981	8411	414	8239	-30	-4	8.1	7.6	-222	2	-1	13.6	3568	58	6.9	87	0.213
40-	36.7003-	102.1586-2-15-				0-N07982	10250	345	5614	-22	-3	5.6	5.1	-193	-1	-1	8.3	3822	62	3.9	69	0.313
40-	36.6944-	102.1586-2-15-				0-N07983	7946	304	4705	49	-3	5.0	4.1	-167	-1	-1	8.6	2889	53	6.1	56	0.372
40-	36.6639-	102.1403-2-15-				0-N07985	7914	446	5630	59	-3	5.8	6.9	-226	-1	-1	7.9	3205	55	5.3	64	0.342
40-	36.7833-	102.3292-2-15-				0-N07993	11220	429	9164	85	-4	10.2	7.0	-247	-1	-1	16.7	3649	74	6.8	140	0.198
40-	36.7883-	102.2900-2-15-				0-N07994	15450	305	9206	99	-4	9.6	7.5	309	-1	-1	13.4	4170	78	-1.9	101	0.261
40-	36.8731-	102.3489-2-15-				0-N07910	10810	388	9552	51	-3	7.0	5.8	-213	-1	1	11.1	3287	62	5.0	77	0.297
40-	36.8742-	102.3631-2-15-				0-N07911	11010	474	9144	59	-3	6.6	7.1	-244	-1	-1	12.3	3584	64	5.9	71	0.285
40-	36.8673-	102.4244-2-15-				0-N07915	11290	504	9950	-31	-4	9.7	9.1	-244	-1	1	17.7	4060	85	9.7	106	0.243
40-	36.8158-	102.4281-2-15-				0-N07917	17820	470	6085	79	-4	10.4	5.7	-227	-1	-1	14.1	4128	82	3.9	103	0.213
40-	36.8603-	102.4567-2-15-				0-N07919	6950	332	9443	93	-3	5.2	6.6	-189	-1	-1	10.8	3591	56	5.6	65	0.324
40-	36.8528-	102.4728-2-15-				0-N07920	11520	320	7344	66	-3	4.9	6.2	-203	-1	-1	8.5	2867	51	4.9	48	0.360
40-	36.8517-	102.4969-2-15-				0-N07922	18740	336	6734	-27	-4	7.8	5.9	-197	-1	-1	11.6	2954	50	4.5	54	0.259
40-	36.7857-	102.4814-2-15-				0-N07923	9082	370	6165	62	-3	5.9	4.6	-189	-1		9.5	2961	49	4.0	-52	0.253

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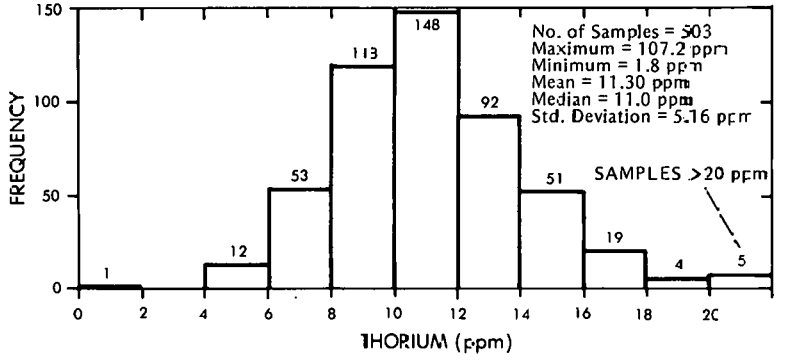
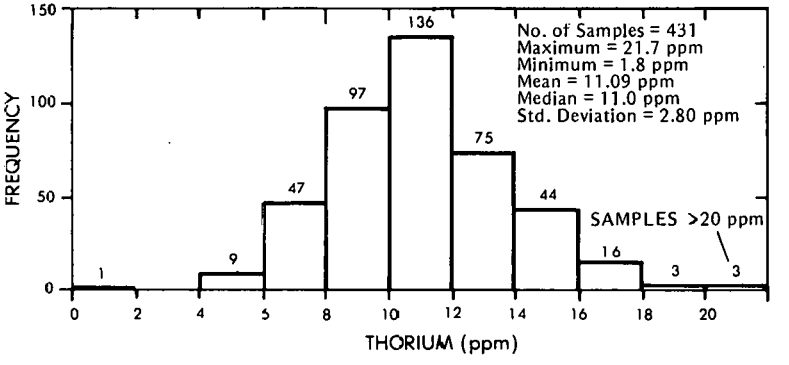
APPENDIX II

HISTOGRAMS AND STATISTICAL DATA FOR THORIUM CONCENTRATIONS IN SEDIMENTS FROM THE DALHART QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA

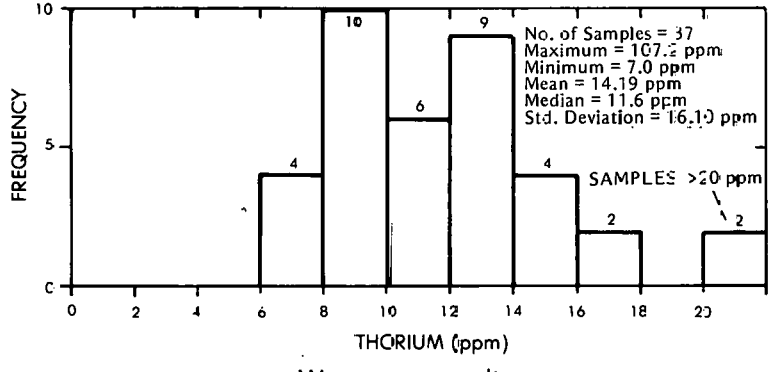
APPENDIX II HISTOGRAMS AND STATISTICAL DATA FOR THORIUM CONCENTRATIONS IN SEDIMENT SAMPLES FROM THE DALHART QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA.



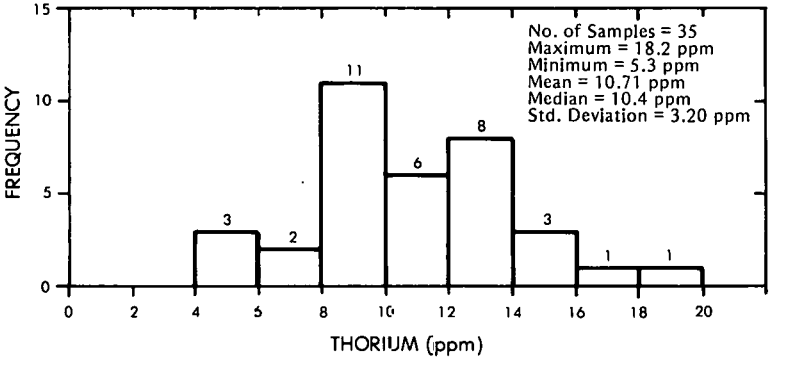
a. All sediments



b. Dry stream sediments



c. Wet stream sediments



d. Spring sediments

APPENDIX III

SUMMARY OF STANDARD LASL HSSR PROCEDURES AND CODES

APPENDIX III-A

Summary of Standard LASL HSSR Field and Analytical Procedures

APPENDIX III-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 directly into one each, prewashed and sealed, 41-ml reactor "rabbit" and 25-ml vial (both polyethylene), and both vials are then acidified to a pH <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; however, in some areas many samples have uranium concentrations below this. Consequently, when a sample run by the normal procedure is determined to have <0.2 ppb uranium, it is routinely 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)

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.

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 (less the tare), and its weight 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 overlapping peaks, determines peak intensities for each element, and calculates the ratio of the intensity of each peak to that of the molybdenum Kα 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 written 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 III-B

Explanation of Codes Used in Appendix I

APPENDIX III-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 that 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 that was measured in the shade at the time of sampling, to the nearest whole degree Celsius (°C).

WATER TEMPERATURE: The temperature that was 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, that was measured in the water at the sample location at the time of sampling.

CONDUCTIVITY: The conductivity, in μmho/cm, that was 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 III-C

Key to Sample Types Listed in Appendix I

APPENDIX III-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

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).

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.

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

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PLATE I

104° 00′ W — 45′ — 30′ — 15′ — 103° 00′ W — 45′ — 30′ — 15′ — 102° 00′ W

37° 00′ N

45′

30′

15′

36° 00′ N

SIERRA GRANDE ARCH

RATON-CLAYTON VOLCANIC FIELD

CANADIAN ANTICLINE

EXPLANATION

SEDIMENTARY

IGNEOUS

Qal — ALLUVIUM
Sand, silt, and gravel along present drainages. Includes areas of transitive debris and scree in New Mexico.

Qs — WINDBLOWN SAND
Identified on Dune sand in New Mexico. No equivalent in Colorado.

Qsm — WINDBLOWN SAND IN UNIDENTIFIABLE DUNES

Qt — PLEISTOCENE TERRACE DEPOSITS (Only identified in New Mexico)

Qp — PLAYA LAKE DEPOSITS (Only identified in Texas)

Qu Tu — UPLAND DEPOSITS UNDIFFERENTIATED
Unconsolidated clay, silt, sand, gravel and caliche. Includes Tesuque, Ogallala, Blanco, Cypress Hills, and other undifferentiated deposits. In New Mexico, includes the Ogallala Fm. at or near the surface, Tu.

Kc — COLORADO GROUP
Undifferentiated in Colorado, Kc. In NM type area, in New Mexico, Kcc, Niobrara and Carlile Formations, undifferentiated. Kcc includes Codell Sandstone, Fairport Chalky Shale Member, Blue Hill Shale Member, Juana Lopez Member, Semilla Sandstone Member, and Graneros Shale, 1150 feet thick.

Ks — DAKOTA FORMATION
Lenticular, cherty sandstone, shale and sandstone, 100-400 feet thick. Quartzose where identified undivided.

Ku — PURGATOIRE FORMATION
Upper gray to black fossiliferous shale member and lower sandstone member in Las Animas Arch area. Sandstone member is quartzose-arkosic sandstone with clay pebble conglomerate, 0-200 feet thick.

Ju — MORRISON FORMATION

Jd — MORRISON AND BURRO CANYON FORMATIONS (Grouped in New Mexico)

Je — EXETER (ENTRADA) SANDSTONE
Mainly fine-grained, well-sorted, medium-grained sandstone, 0-50 feet thick. Contains a basal agate bed in New Mexico.

DOCKUM GROUP — CHINLE FORMATION

DOCKUM GROUP
Upper part: Variegated siltstone or claystone, sandstone and local conglomerate and limestone. Lower part: Variegated clay- to cobble-sized mudstone with some clay and interbedded marls. Total thickness 0-1000 feet.
In New Mexico, divided into three formations:
Tr — Trujillo Fm. and Trujillo Sandstone Member
Tc — Travesa Fm.
Tb — Bull Canyon Fm.

CHINLE FORMATION
Variegated siltstone and mudstone and lenticular sandstone and conglomerate. Basal conglomerate facies identified as Shinarump Member. Total thickness 0-1000 feet.

Tu/QTu — UNDIFFERENTIATED TERTIARY AND QUATERNARY DEPOSITS

Qso — SAND DUNES

Qb — BASALT FLOWS

Qbc — CAPULIN BASALT (of Section)

Qv — VOLCANIC VENTS

Qcb — CLAYTON BASALT (of Section)

Dcl — DEVILS LOOKOUT LITHOLOGIC MEMBER
Dcl, shown by triangular symbol in Colfax, Quay, Harding, Union, and Mora Counties (of Section) in New Mexico

GEOLOGIC SYMBOLS

Formation Contact. Dashed where approximately located, dotted where concealed.

Fault showing relative vertical movement U. up, and D. down. Dashed where approximately located.

Anticline, showing trace of axis.

Monocline, showing trace of axis.

DATA SOURCES

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SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

Pueblo	Lamar	Scott City
COLORADO		KANSAS
Trinidad	LaJunta	Dodge City
Raton	Dalhart	OKLAHOMA Perryton
NEW MEXICO Santa Fe	Tucumcari	TEXAS Amarillo
Fort Sumner	Clovis	Plainview

N

GEOLOGIC MAP OF THE DALHART NTMS QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA.

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PLATE II

104° 00′ W — 45′ — 30′ — 15′ — 103° 00′ W — 45′ — 30′ — 15′ — 102° 00′ W

37° 00′ N

45′

30′

15′

36° 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 DALHART NTMS QUADRANGLE,

NEW MEXICO/TEXAS/OKLAHOMA.

N

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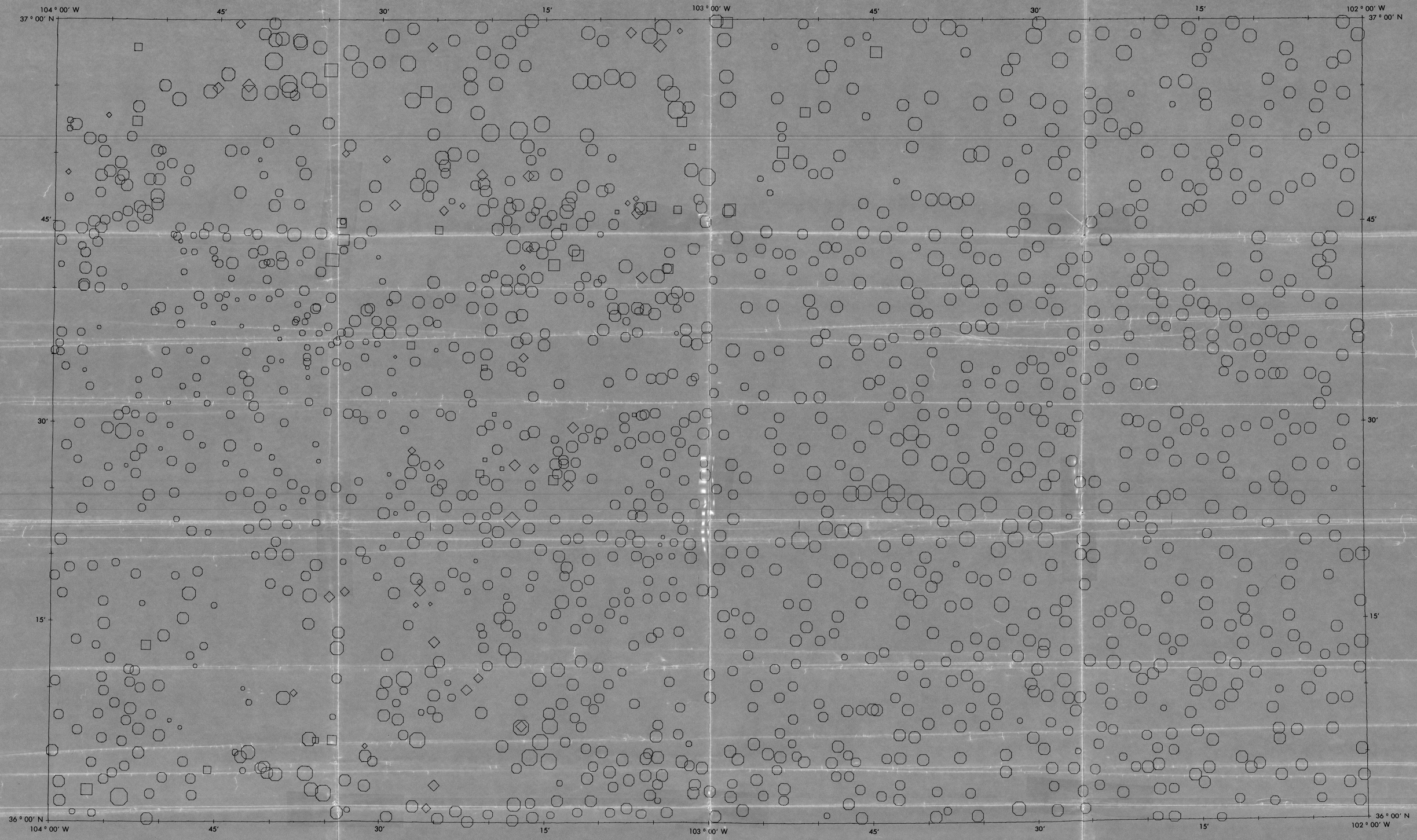
PLATE III



LEGEND

SYMBOLS	CONCENTRATIONS (ppb)
◇ SPRING	0.00– .20
	.21– 1.00
	1.01– 2.00
	2.01– 4.00
□ STREAM	4.01– 10.00
	10.01– 20.00
	20.01– 40.00
○ WELL	> 40.00

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

URANIUM CONCENTRATIONS (ppb) IN WATERS - OVERLAY TO THE DALHART NTMS QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA.

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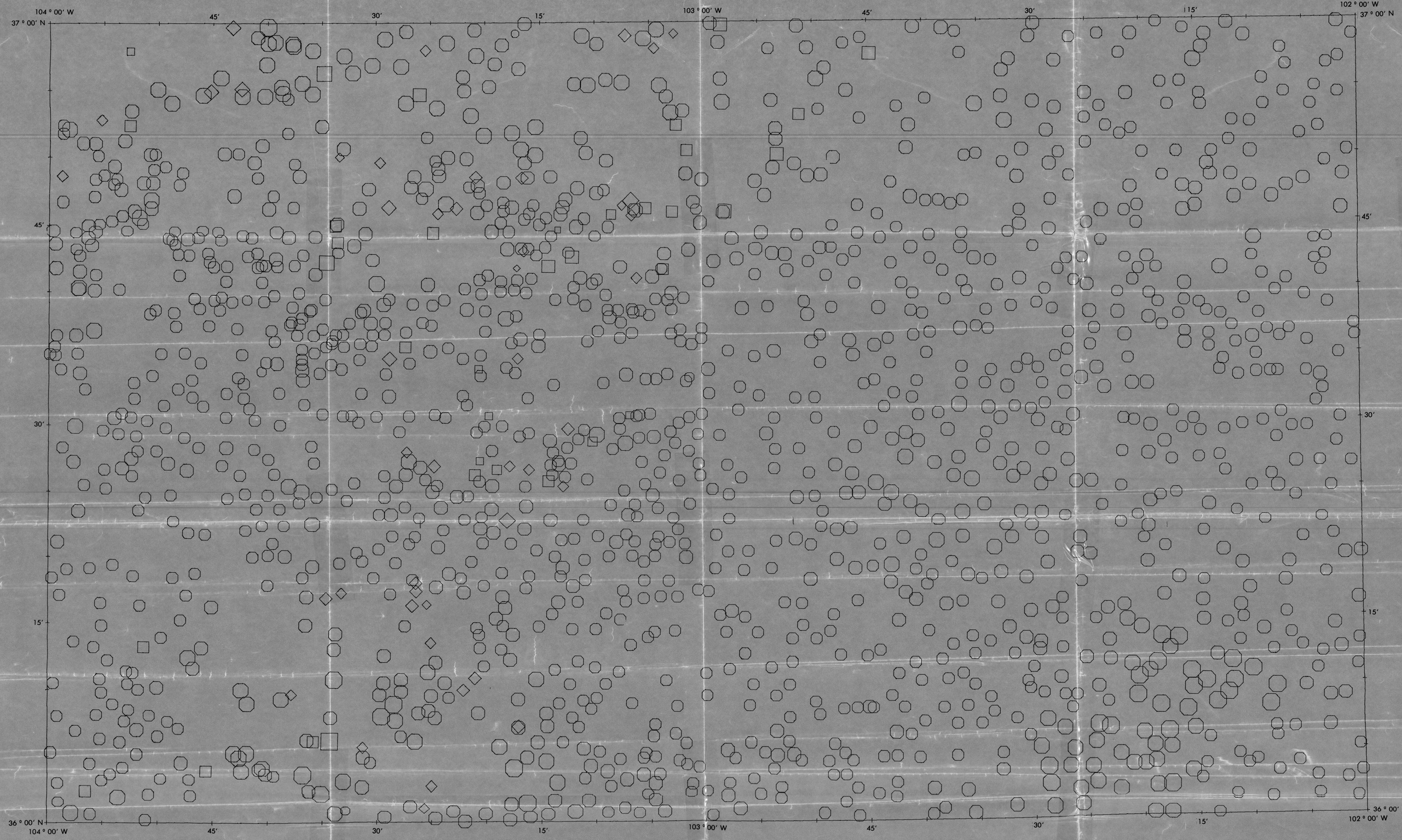
PLATE IV



LEGEND

SYMBOLS	CONDUCTIVITIES (μmho/cm)
◇ SPRING	0 – 20
	20 – 50
	50 – 100
	100 – 200
	200 – 500
□ STREAM	500 –1000
	1000 –2000
○ WELL	> 2000

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

CONDUCTIVITIES (μmho/cm) IN WATERS - OVERLAY TO THE DALHART NTMS QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA.

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PLATE V

104 ° 00′ W — 45′ — 30′ — 15′ — 103 ° 00′ W — 45′ — 30′ — 15′ — 102 ° 00′ W

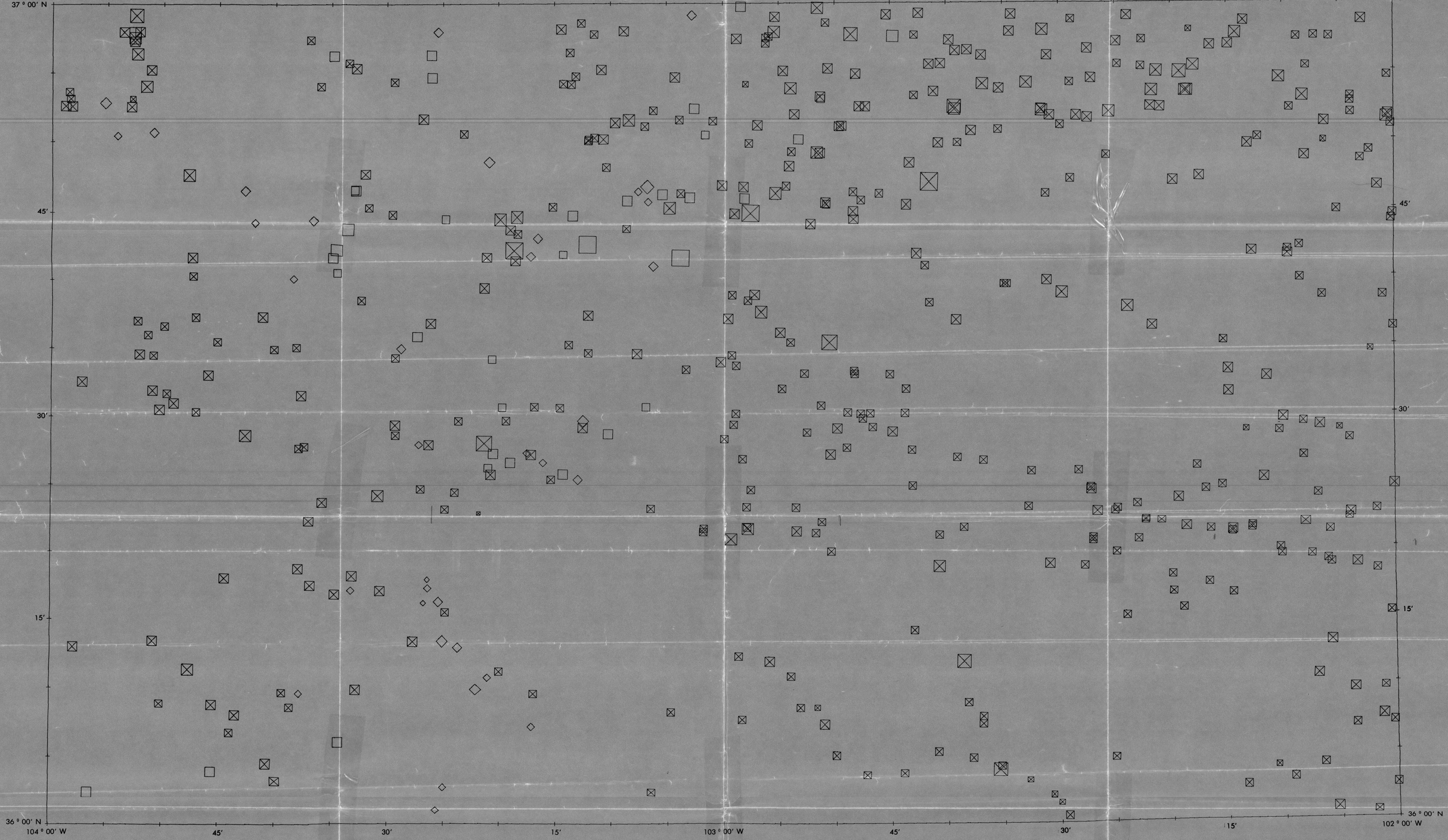
37 ° 00′ N

45′

30′

15′

36 ° 00′ N



LEGEND

SYMBOLS	CONCENTRATIONS (ppm)	
◇ WET SPRING	◇ □ ⊠	0.00– 1.00
	◇ □ ⊠	1.01– 2.00
□ WET STREAM	◇ □ ⊠	2.01– 3.00
	◇ □ ⊠	3.01– 4.00
⊠ DRY STREAM	◇ □ ⊠	4.01– 5.00
	◇ □ ⊠	5.01– 6.00
	◇ □ ⊠	6.01– 7.00
	◇ □ ⊠	> 7.00

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

URANIUM CONCENTRATIONS (ppm) IN SEDIMENTS - OVERLAY TO THE DALHART NTMS QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA.

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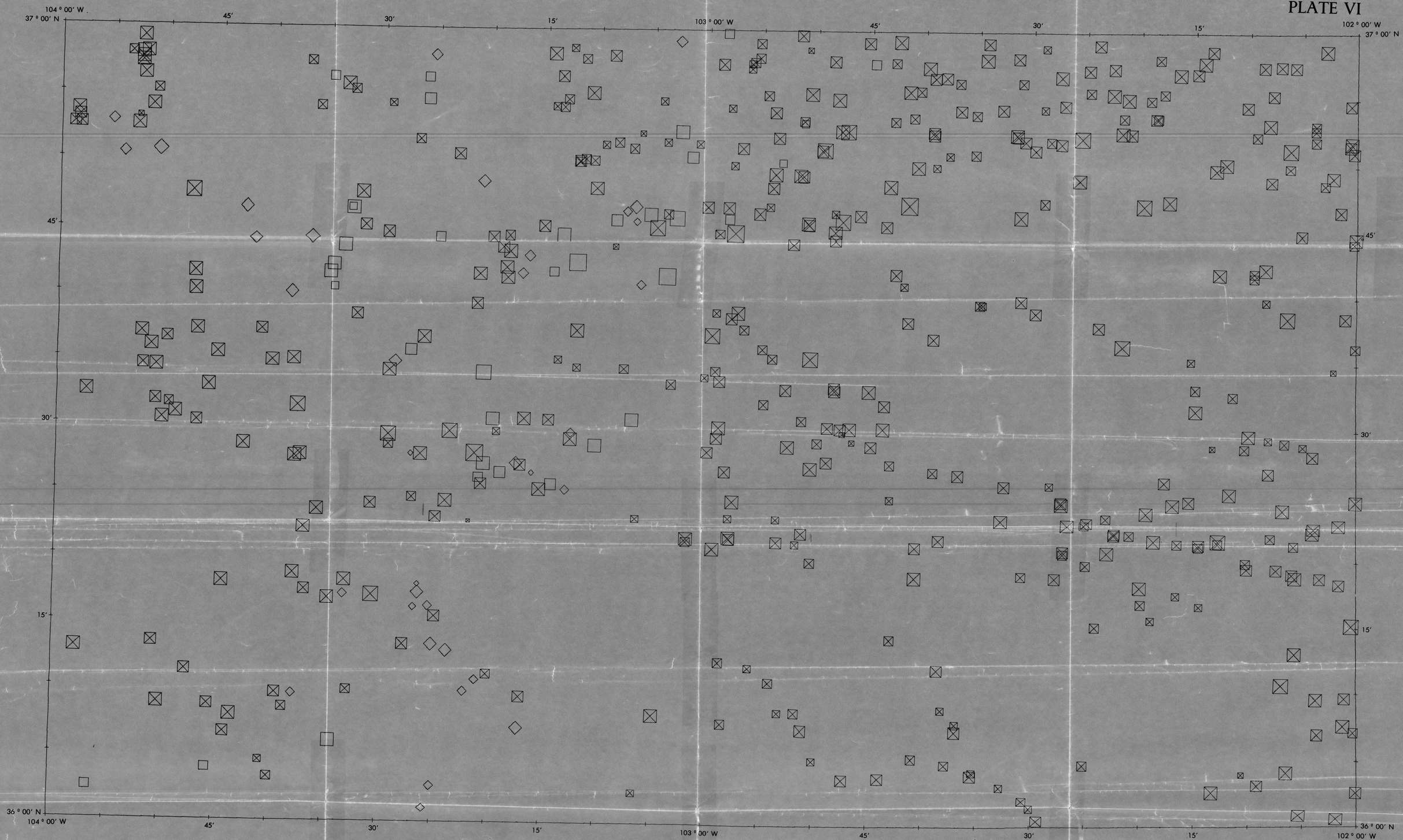
PLATE VI



LEGEND

SYMBOLS	CONCENTRATIONS(ppm)
◇ WET SPRING	0.0– 4.0
□ WET STREAM	4.1– 6.0
⊠ DRY STREAM	6.1– 8.0
	8.1– 10.0
	10.1– 12.0
	12.1– 16.0
	16.1– 20.0
	> 20.0

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

THORIUM CONCENTRATIONS (ppm) IN SEDIMENTS - OVERLAY TO THE DALHART NTMS QUADRANGLE, NEW MEXICO/TEXAS/OKLAHOMA.

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