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Informal Report

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

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

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

by

Larry W. Maassen and Carol M. LaDelfe

ABSTRACT

The Los Alamos Scientific Laboratory conducted a hydrogeochemical and stream sediment reconnaissance for uranium in the Gallup NTMS quadrangle, New Mexico/Arizona, as part of the National Uranium Resource Evaluation. Totals of 516 water and 1403 sediment samples were collected from 1856 locations over a 20 100 km^2 area at an average density of one location per 11 km^2. Water samples were collected from streams, springs, and wells. Sediment samples were collected from streams and springs. Water samples were analyzed for uranium; sediment samples were analyzed for uranium and 41 additional elements. All field and analytical data are listed in the appendixes of this report; however, only uranium is discussed herein.

The uranium concentrations in water samples range from below the detection limit of 0.02 parts per billion (ppb) to 493.53 ppb with a median for all water types of 1.60 ppb. Waters with uranium concentrations above the anomaly threshold of 20 ppb were collected predominately from shallow wells in alluvial stream beds. These streams drain primarily Chinle and Bidahochi formations in the western and southern portion of the quadrangle, and Menefee formation north of Gallup.

Sediment samples from the quadrangle were found to have uranium concentrations that range from 1.00 parts per million (ppm) to 25.20 ppm with a median for all sediment types of 2.85 ppm. Three groups of sediment samples with uranium concentrations over the arbitrary anomaly threshold of 6 ppm were delineated. The first is in the Black Mesa Basin and is underlain by Mancos shale and Toreva formation. The second is in the Gallup sag and is associated primarily with the Menefee and Crevasse Canyon formations. The third group is in the Zuni Mountains where Abo formation is juxtaposed against Precambrian crystalline rocks.

I. INTRODUCTION

Uranium and other elemental data resulting from the Hydrogeochemical and Stream Sediment Reconnaissance (HSSR) of the Gallup National Topographic Map Series (NTMS) quadrangle, New Mexico/Arizona, by the Los Alamos Scientific Laboratory (LASL) are reported herein. 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 an improved estimate for the availability and economics of nuclear fuel resources and make available to industry information for use in the development and production of uranium resources. The HSSR data will ultimately be integrated with data from other NURE programs (e.g., airborne radiometric surveys and geological investigations) to complete the entire NURE program by 1988.

Totals of 516 water and 1403 sediment samples were collected from 1856 locations in the Gallup quadrangle. The samples were collected during four separate periods. Samples collected during the summers of 1976, 1977, and 1978 were collected by private contractors. Samples collected during the summer of 1979 were collected by the LASL. At the LASL, all water samples were analyzed for uranium (Appendix I-A) and all sediment samples were analyzed for uranium, thorium, and 41 additional elements (Appendix I-B). 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. Standardized field and analytical procedures, described in Sharp (1977) and Sharp and Aamodt (1978), were used in this study. To facilitate use of these data for the NURE, only the results of the uranium analyses are discussed herein. A supplemental report that includes results of analyses for several elements in the water samples from this quadrangle will be released in the future.

Plates included in the rear pocket consist of a sample location overlay (Plate I), a uranium concentration overlay for waters (Plate II), a water conductivity overlay (Plate III), a uranium concentration overlay for sediments (Plate IV), and a thorium concentration overlay for sediments (Plate V). All plates are 1:250 000 scale and can be used in conjunction with the Gallup topographic map (US Geological Survey, 1954) and geologic map (Hackman and Olson, 1977) that are published at the same scale.

II. DESCRIPTION OF STUDY AREA

Location and Geographic Setting

The Gallup NTMS quadrangle is bounded by 35° and 36°N latitudes and 108° and 110°W longitudes with an area of approximately 20 100 km^2 (Fig. 1). The New Mexico/Arizona state line nearly bisects the quadrangle. Gallup is the largest city in the quadrangle with a 1970 population of 13 000. Window Rock, the Navajo Indian capital, lies just inside Arizona in the central portion of the quadrangle. The Navajo Indian Reservation covers approximately 10 300 km^2 of the study area. About 350 km^2 of the Ramah Indian Reservation and 1160 km^2 of the Zuni Indian Reservation are also included in the Gallup quadrangle. Numerous state, county, and local roads provide fair access to most parts of the area.

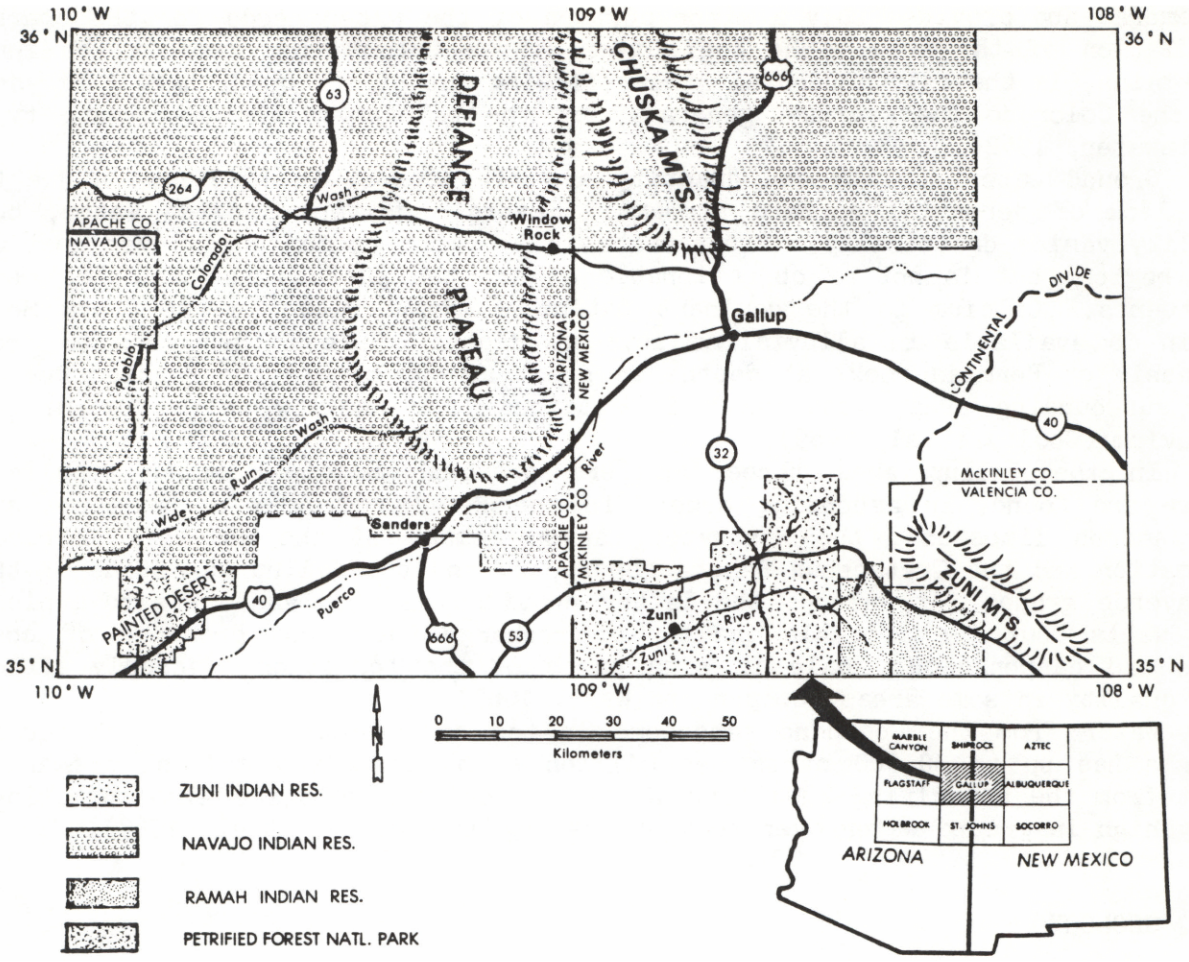

Fig. 1. Location map of the Gallup NTMS quadrangle, New Mexico/Arizona.

The study area lies entirely within the Colorado Plateau physiographic province and is characterized by broad valleys, lava capped plateaus, and desolate badlands with scattered mesas, cuestas, and buttes (Hunt, 1974). Elevations range from 1680 m in the southwestern portion of the quadrangle to 2821 m at Mt. Sedgwick in the Zuni Mountains. Elevations of the Defiance Plateau average about 2290 m with a maximum of about 2400 m.

Climate

The climate of the area is generally arid to semi-arid and varies with altitude. The mean annual precipitation ranges from less than 150 mm in the badlands of the Painted Desert area to more than 500 mm in the Chuska and Zuni Mountains. Temperatures above 38 °C are common during summer months at altitudes below 2100 m and subzero temperatures may be expected during winter months anywhere within the quadrangle. The mean annual temperature in Gallup, New Mexico, is 9.8 °C and average annual precipitation is 265 mm with most of the precipitation falling during midsummer thundershowers (NOAA, 1979). Specific weather conditions at each sample location were recorded by sample collectors and are included in Appendixes I-A and I-B.

Hydrology

Surface stream flow within the Gallup quadrangle is predominantly ephemeral and provides only a minor portion of the water needs for the sparse population of the area. The Zuni River, whose tributaries rise in the Zuni Mountains, is the only perennial stream flowing out of the quadrangle. Streams of the Colorado Plateau are generally of the calcium-magnesium-sulfate type (Rainwater, 1962).

Ground water quality and quantity are of interest in this region due to the lack of perennial surface streams. Several aquifers provide water, but quality varies drastically. Bicarbonate is the most common anion over most of the region, but is not as objectionable as are the sulfate and chloride constituents. Calcium is the dominant cation. Ground water in the Black Mesa Basin is available in alluvial valleys at depths of less than 90 m or from Triassic or Permian rocks at depths as great as 600 m. In the Painted Desert and surrounding area, most water is obtained from shallow wells dug in the alluvium (Cooley et al, 1969).

In the Gallup area three aquifers provide municipal water supplies. These are found, in ascending order, in the Permian Glorietta sandstone and San Andres limestone, the Westwater Canyon member of the Jurassic Morrison formation and the Cretaceous Dakota sandstone, and the Gallup sandstone of the Mesaverde group. At Gallup, the latter provides as much as 16 ℓ/s to municipal wells, but the variable quality of recharge water and presence of coal beds and carbonaceous shale in some parts of the formation adversely affect the quality in some areas (Cooper and West, 1967).

Water from the Coconino sandstone in the southeastern part of the quadrangle has up to 30 000 parts per million (ppm) dissolved solids, primarily salt from the underlying Supai formation. Fluoride levels are also objectionably high in ground water over much of the region (Cooley, et al, 1969).

III. GEOLOGY

The Gallup quadrangle contains a wide variety of igneous, metamorphic, and sedimentary rocks representing many geologic periods. A published 1:250 000-scale geologic map of the Gallup quadrangle (Hackman and Olson, 1977) is available; Fig. 2 is a generalized geologic map showing the distribution of the main rock units in the quadrangle. Table I is a brief description of the stratigraphy in the area.

Stratigraphy

Rocks of the Precambrian era are represented by metasediments, metavolcanics, and granitic rocks exposed in the Defiance Plateau and Zuni Mountains. These basement rocks are nonconformably overlain by late Paleozoic rocks that are composed predominantly of Pennsylvanian and Permian sandstones, siltstones, and limestones (Hackman and Olson, 1977).

Lower Mesozoic strata consist predominantly of continental clastic sediments. In Cretaceous time a series of transgressions and regressions resulted in deposition of marine and marginal-marine sandstones, shales, limestones, and some local coal beds. The seas withdrew from New Mexico at the close of Cretaceous time; therefore, the Cenozoic era is represented by rocks derived predominantly from the erosion of mountain masses (Dane and Bachman, 1965).

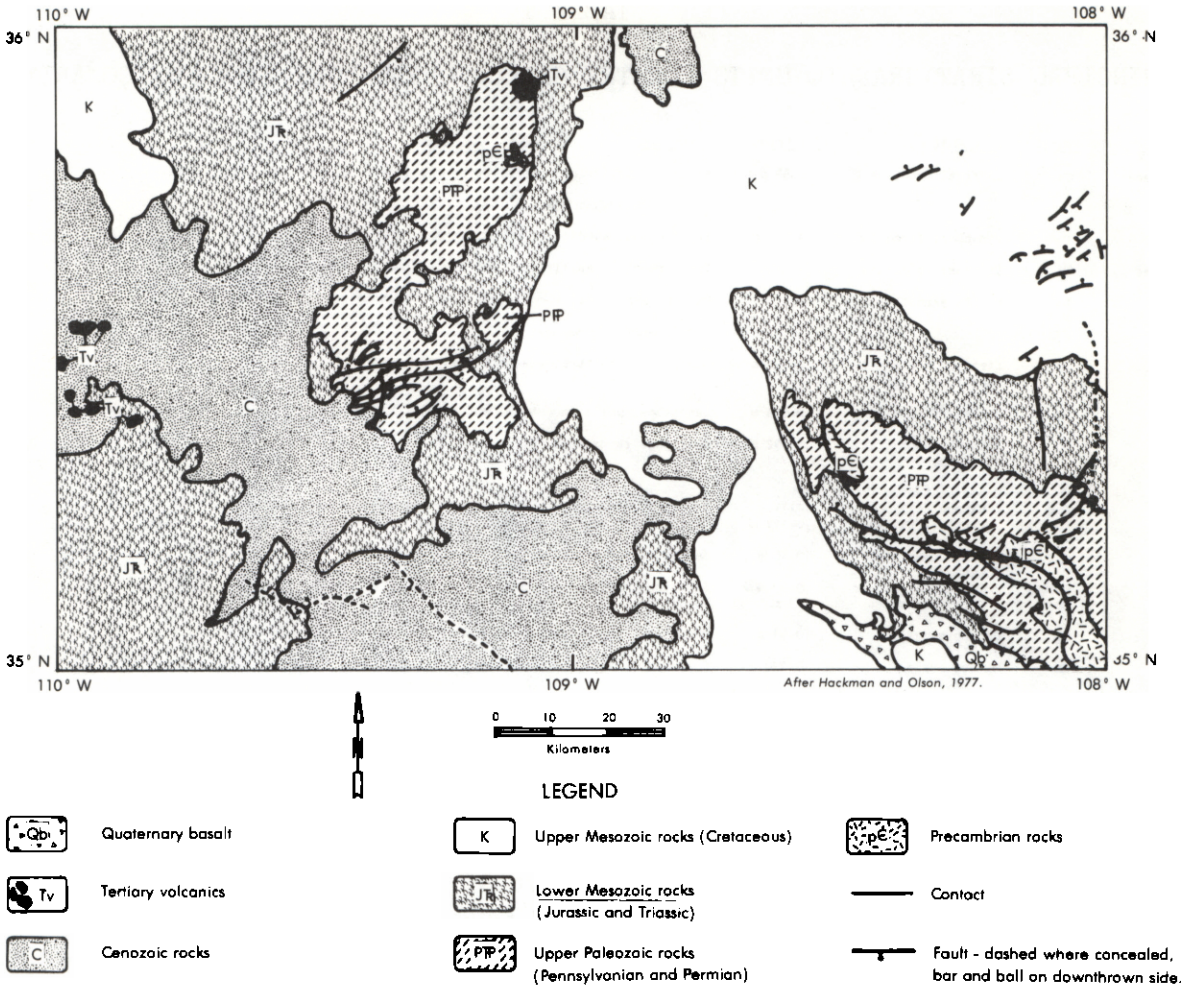

Fig. 2. Generalized geologic map of the Gallup quadrangle, New Mexico/Arizona.

Structural Geology

Most structural features in west-central New Mexico developed principally during the Laramide orogeny (Fig. 3). This late-Cretaceous and early Tertiary deformation may be considered rather mild in comparison to the more highly deformed Rocky Mountain orogenic systems farther to the north. Epeirogenesis of the Colorado Plateau as a whole probably took place during later Tertiary time (Woodward and Callender, 1977).

The Defiance and Zuni uplifts dominate the structural features of the quadrangle. The Defiance uplift is a north-trending asymmetrical fold (steeper on the east) about 50-km wide and 160-km long. Approximately half of the uplift extends into the Shiprock quadrangle to the north. Its eastern boundary is marked by the sinuous Defiance monocline, which dips 20°-90° (Kelley, 1967). About 2100 m of structural relief separates the highest part of the uplift and the adjacent Gallup sag, a narrow embayment that separates the Defiance and Zuni uplifts (Woodward and Callender, 1977).

The Zuni uplift trends northwest, is about 115-km wide and 50-km long, and is asymmetrical with a steep southwestern flank and a gently dipping northeastern flank (Woodward and Callender, 1977). The uplift is bounded on its

TABLE I

PRINCIPAL STRATIGRAPHIC UNITS FOR THE GALLUP QUADRANGLE, NEW MEXICO/ARIZONA

Age	Symbol	Rock Unit	Thickness	Lithology
Quaternary	Qs	Surfical deposits	0-64 m	Alluvium, colluvium, eolian deposits, dune sand, and landslide debris.
				—unconformity—
Pliocene	Tbu	Bidahochi formation	0-183 m	Argillaceous sandstone; rhyolitic ash in lower part.
Oligocene	Tv	Tertiary volcanics		Tuff breccia; lapilli tuff and minor kimberlite tuff.
Eocene	Tc	Chuska sandstone	?305 m	Massive sandstone; some interbedded siltstone.
				—unconformity—
Cretaceous	Kkf	Kirtland and Fruitland formations	0-152 m	Bentonitic and carbonaceous shale.
	Kmf	Menefee formation	0-914 m	Sandstone, shale, mudstone, and coal.
	Kpl	Point Lookout sandstone	61-92 m	Quartzose sandstone.
	Kc	Crevasse Canyon formation		
	Kcg	Gibson coal member	?117 m	Interbedded sandstone, siltstone, carbonaceous shale, and coal.
	Kcb	Bartlett Barren member	0-117 m	Similar to Gibson coal member, but more sandstone, less shale and coal.
	Kcd	Dalton sandstone member	0-46 m	Sandstone and minor shale.
	Kcdc	Dilco coal member	0-92 m	Sandstone, siltstone, carbonaceous shale, and coal.
	Kcsd	Stray sandstone	23 m	Sandstone.
	Kg	Gallup sandstone	0-61 m	Sandstone; minor carbonaceous shale, siltstone, and coal.
	Kms	Mancos shale	0-230 m	Claystone, siltstone, mudstone, and sandstone. Bentonite beds in lower part.
	Kt	Toreva formation	91 m	Sandstone and carbonaceous sandstone.
	Kd	Dakota sandstone	15-92 m	Sandstone, mudstone, carbonaceous shale and coal. Local basal conglomerate.
				--unconformity--
Jurassic	Jm	Morrison formation		
	Jmb	Brushy Basin member	37 m	Claystone, siltstone, and sandstone.
	Jmw	Westwater Canyon member	0-92 m	Sandstone, local layers of pebbles, claystone, and siltstone.
	Jmr	Recapture member	0-70 m	Claystone and siltstone.
	Jcs	Cow Springs sandstone	46-158 m	Sandstone and silty sandstone.
	Js	Summerville formation	0-61 m	Sandstone, claystone, and siltstone.
	Jt	Todilto limestone	0-61 m	Limestone and sandy limestone.
	Je	Entrada sandstone	0-183 m	Sandstone and siltstone.
	Jc	Carmel formation	19-46 m	Sandstone and shale.
	Jmf	Moenave formation	0-25 m	Sandstone and siltstone.
Triassic	$T_{R}w$	Wingate sandstone		
	$T_{R}wl$	Lukachukai member	31- m	Sandstone.
	$T_{R}wr$	Rock Point member	0-153 m	Siltstone and sandstone.
	$T_{R}c$	Chinle formation		
	$T_{R}co$	Owl Rock member	0-98 m	Limestone, silty limestone, chert nodule limestone interbedded with claystone and siltstone.
	$T_{R}cp$	Petrified Forest member	0-381 m	Claystone, siltstone, minor sandstone.
	$T_{R}cps$	Sonsela sandstone bed	0-50 m	Conglomeratic sandstone; some mudstone and siltstone.
	$T_{R}cmb$	Monitor Butte member	0-119 m	Claystone and sandy siltstone; some limestone and quartz pebble conglomerate.
	$T_{R}cs$	Shinarump member	0-30 m	Fluvial quartzose and conglomeratic sandstone; lesser mudstone.
				—unconformity—
	$T_{R}m$	Moenkopi formation	<15 m	Siltstone, mudstone, sandstone, and conglomerate. Local basal limestone breccia.
				--unconformity--
Permian	Pdc	De Chelly sandstone	76-137 m	Sandstone and silty sandstone.
	Psa	San Andres limestone	15-44 m	Limestone; sandstone locally.
	Pg	Glorieta sandstone	46-92 m	Quartzose sandstone.
	Py	Yeso formation	69-305 m	Sandstone and siltstone. Limestone and gypsum beds in upper part.
	Pa	Abo formation	92-305 m	Sandstone and siltstone; conglomerate and limestone locally at base of unit.
Permian to Pennsylvanian	P IPs	Supai formation	152-579 m	Sandstone and siltstone. Minor limestone, mudstone-pebble conglomerate, and gypsum beds.
				—nonconformity—
Precambrian	pE	Igneous and metamorphic rocks		Granite, granite gneiss, schist, amphiholite, phyllite, metarhyolite, and metasediments.

* As described in Hackman and Olson (1977).

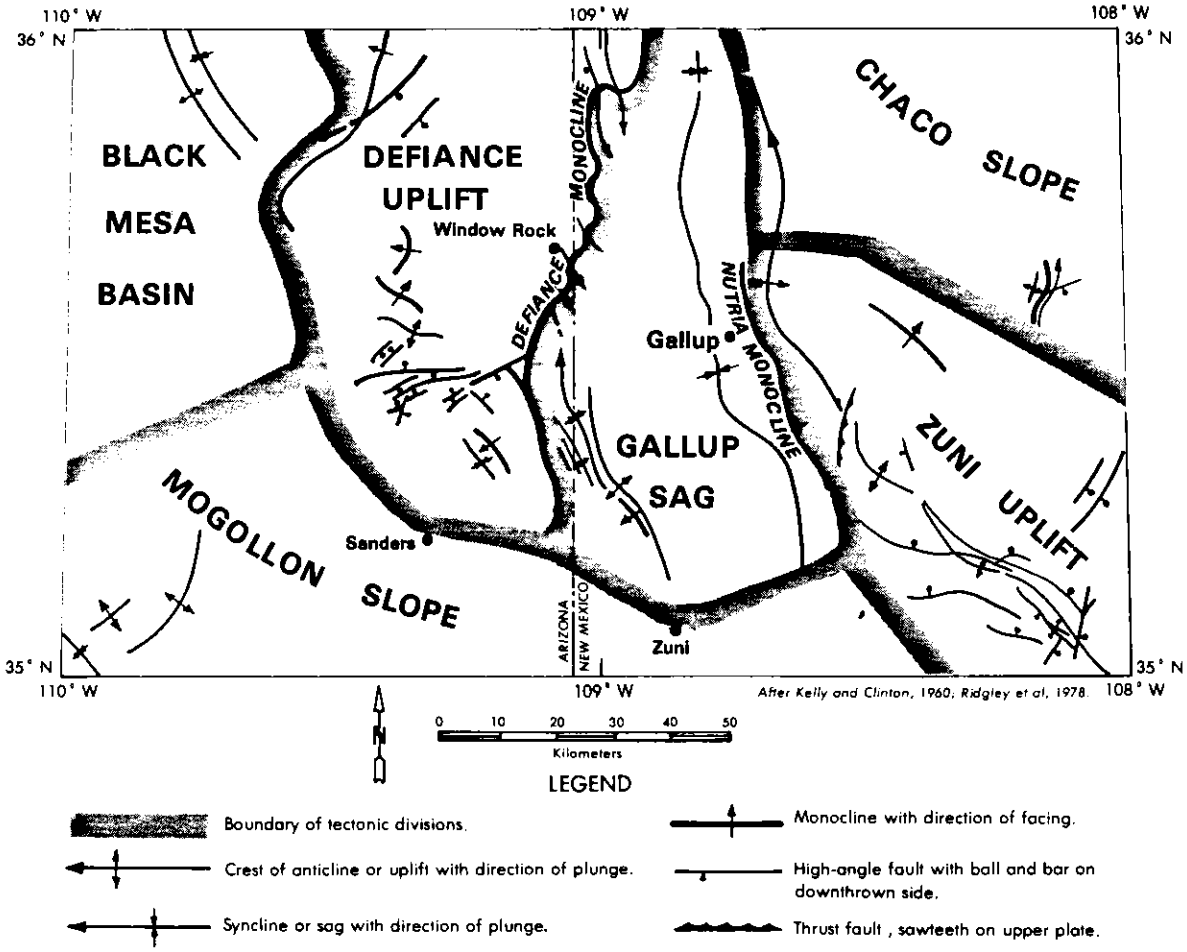

Fig. 3. Schematic map showing the major tectonic and structural features of the Gallup quadrangle, New Mexico/Arizona.

western side by the Nutria monocline where dips range from low to steeply overturned (Kelley, 1967) and structural relief is as much as 1400 m (Woodward and Callender, 1977).

Other structural features in the Gallup quadrangle are the Chaco slope, the Mogollon slope, and the Black Mesa Basin. The boundaries of these structures generally grade imperceptibly into the surrounding tectonic features.

Uranium Occurrences

There are more than 120 uranium mines, claims, and/or prospects in the Gallup quadrangle. The major uranium producing areas are shown schematically in Fig. 4. Additional isolated uranium occurrences and small mines are plotted on a 1:250 000-scale map of the Gallup quadrangle (Hackman and Olson, 1977). A more thorough compilation and discussion of individual localities can be found in Hilpert (1969), Chapman et al (1977), Holen (1977), and Pierson and Green (1977). In addition, 129 statistical uranium anomalies were identified in a NURE airborne radiometric survey made by geoMetrics (1979). These are also presented in Fig. 4.

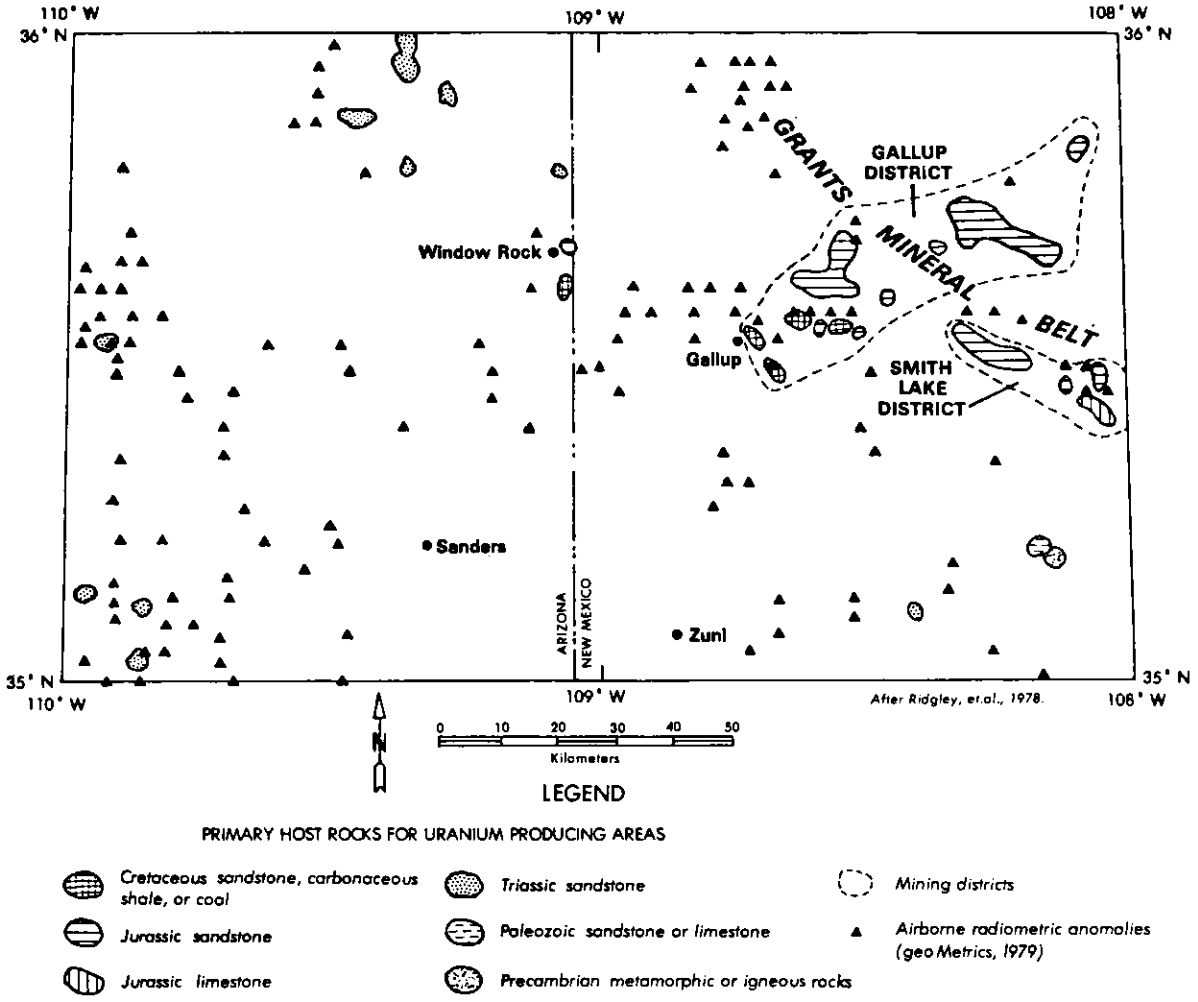

Fig. 4. Areas containing uranium occurrences, prospects, mines, and radiometric anomalies in the Gallup quadrangle New Mexico/Arizona.

Most of the uranium production in the Colorado Plateau has come from Jurassic sedimentary rocks in the Grants Mineral Belt, the largest uranium-producing area in the United States. In the Gallup quadrangle this mineral belt includes the Gallup and Smith Lake mining districts. Host rocks for uranium deposits in the Gallup quadrangle, listed in order of decreasing number of deposits, are the Westwater Canyon member of the Morrison formation, the Brushy Basin member of the Morrison formation, the Todilto limestone, the Monitor Butte member of the Chinle formation, the Dakota sandstone, the Recapture member of the Morrison formation, the Petrified Forest member of the Chinle formation, the Gibson coal member of the Crevasse Canyon formation, the Shinarump member of the Chinle formation, spring deposits, the Dilco coal member of the Crevasse Canyon formation, the Abo formation, and porphyritic aplite (Hackman and Olson, 1977).

Within the Grants Mineral Belt 114 862 short tons (1976 figure) U_3O_8 have been produced from the Morrison formation (Ridgley et al, 1978). About

95% of this production has been from the Westwater Canyon and Brushy Basin members. Deposits in the sandstones of the Morrison formation range in size from a few hundred to several million tons of ore (Kittel et al, 1967) and are generally associated with carbonaceous material. These are generally elongated, tabular deposits, and tend to parallel bedding structures and paleochannel systems (Hilpert, 1969). The principal ore minerals are coffinite, uraninite, tyuyamunite, and uraniferous carbonaceous material.

About 2% of the uranium ore produced in the Grants region has come from the Todilto formation where 2718 short tons of U_3O_8 have been produced (Ridgley, et al, 1978). Deposits in the Todilto range in size from a few hundred to more than 200 000 short tons of ore (Kittel et al, 1967) and generally occur within the limestone unit where it has been deformed by interformational folding and faulting.

Prospects in the southwestern portion of the quadrangle and in the Defiance Plateau region are primarily in the Chinle formation. Active mines in these areas have each produced less than 20 000 lbs of U_3O_8 (Hackman and Olson, 1977). The uranium ore is commonly associated with carbonaceous material in fluvially deposited sandstone (Ridgley et al, 1978).

IV. PRESENTATION OF ANALYTICAL AND STATISTICAL DATA

Field measurements and analytical data for each sample site are given for waters in Appendix I-A and for sediments in Appendix I-B. Water samples were initially analyzed for uranium by fluorometry. All 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. Elemental concentrations in sediments were determined by neutron activation analysis of 31 elements, by x-ray fluorescence for 9 elements, and by arc-source emission spectrography for 2 elements.

Histograms for uranium concentrations in both water and sediments and for thorium concentrations in sediments are included in Appenix II. Appendix III is a summary of the LASL HSSR procedures, explanation of codes used, and key to sample types in Appendix I.

Limiting the discussion to a few samples having the highest uranium values should not be construed as discounting the possible significance of the remaining samples. Subtle variations in low-level uranium concentrations also

TABLE II

SUMMARY OF URANIUM DATA FOR WATER SAMPLES
FROM THE GALLUP QUADRANGLE, NEW MEXICO/ARIZONA

Sample Type	Sample Size	Range (ppb)	Mean (ppb)	Standard Deviation	Median (ppb)
All waters	516	0.01 - 493.53	7.61	27.99	1.60
Stream waters	29	0.08 - 7.36	1.65	2.05	0.83
Spring waters	77	0.10 - 100.63	7.54	15.99	2.46
Well waters	410	0.01 - 493.53	8.04	30.59	1.54

have been useful guides in geochemical exploration in places where other geologic factors call attention to an area as a possible exploration target.

Uranium Concentrations in Water Samples

Water samples were collected from 516 locations in the Gallup quadrangle, including 410 wells, 77 springs, and 29 streams. The uranium content of all waters ranges from below the detection limit of 0.02 ppb to 493.53 ppb and has a median of 1.60 ppb. Table II summarizes the statistical data for all the water samples and for each water sample type. Spring waters have the highest median uranium content, whereas streams have the lowest. Background concentrations for uranium cut across sample area boundaries (Fig. 5), indicating that annual variations in water quality do not significantly affect these values. Sample types, local background variations, and geology should

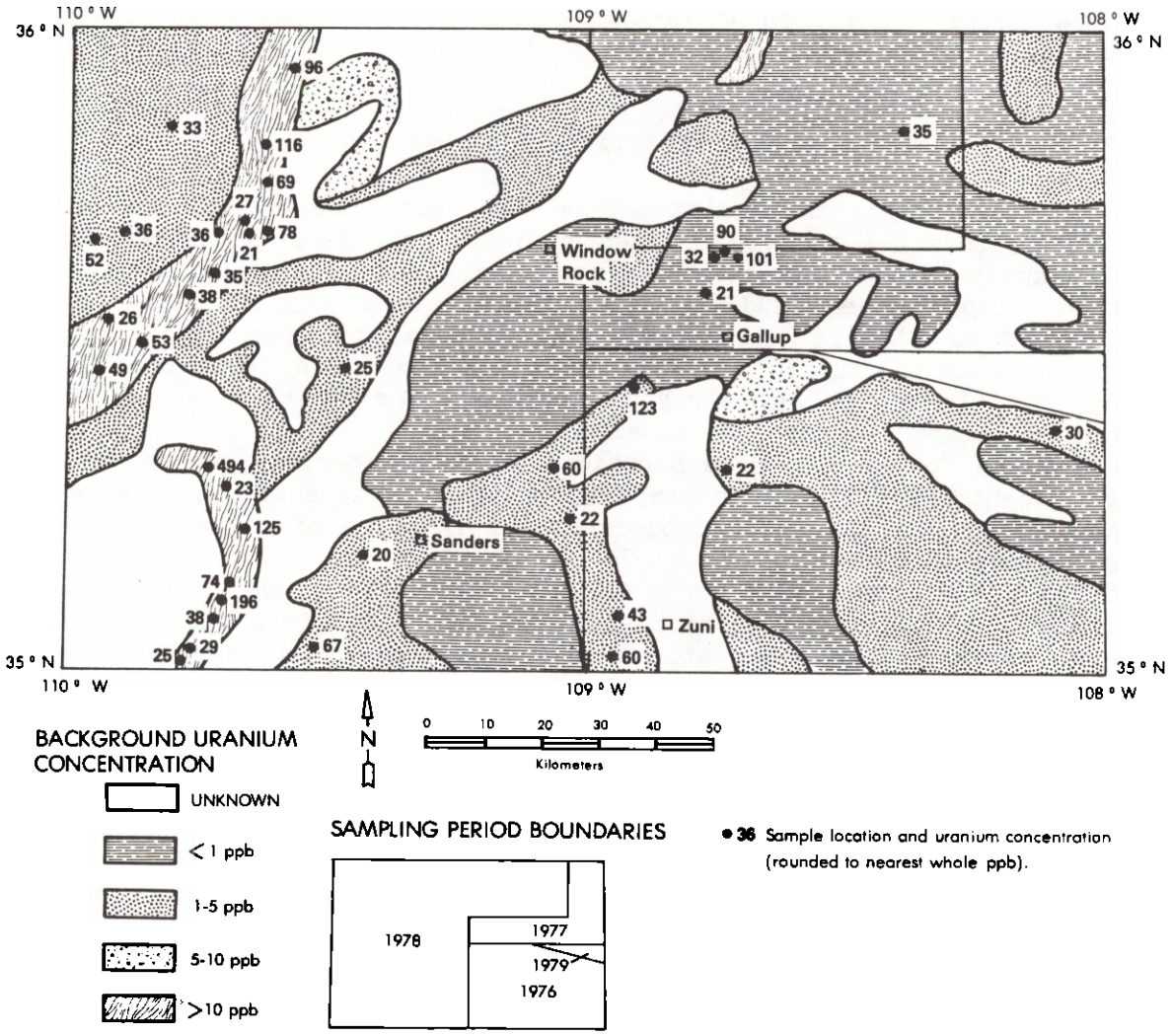

Fig. 5. Map showing background uranium concentration and location of water samples containing greater than 20 ppb uranium from the Gallup quadrangle, New Mexico/Arizona

be considered in a more detailed examination of the data; however, no distinction is made among sample types in the following discussion of the data.

Table III provides relevant data for the 38 water samples with uranium concentrations greater than 20.0 ppb; their locations are shown in Fig. 5. These samples are arbitrarily defined as anomalous. The samples with relatively high uranium concentrations consist of 31 wells and 7 springs and represent approximately 7.4% of all water samples. Due to the aridity of the climate, stream waters comprise a small portion of the samples collected and will not be discussed further. Discussion will be limited to areas where a majority of the samples collected have anomalous uranium concentrations.

Most of the water samples collected containing greater than 20 ppb uranium are from wells in alluvial stream valleys from the Arizona portion of the quadrangle. Although no well depth data were obtained for these samples, a hydrology report by Cooley et al (1969) indicates that these wells are fairly shallow.

In the northwestern portion of the quadrangle, 15 anomalous water samples (14 wells and 1 spring) were collected within Pueblo Colorado Wash and/or its tributaries. These samples have generally high conductivities. Rock units in the area include predominantly the Bidahochi and Chinle formations. In the Defiance Plateau there are several uranium prospects in the Monitor Butte member of the Chinle formation (Hackman and Olson, 1977). Also exposed are lesser areas of Morrison formation and Dakota sandstone, which are currently being mined for uranium in other parts of the quadrangle (Hackman and Olson, 1977). The high concentration of uranium in these ground waters may reflect the effects of evapotranspiration and/or a long hydrologic residence.

The two highest uranium concentrations in water samples come from wells in the southwestern portion of the quadrangle. This area includes nine wells and one spring with anomalous uranium concentrations. These samples were collected primarily in alluvial stream valleys. The area is underlain by the Petrified Forest member of the Chinle formation; however, large areas of Bidahochi formation are exposed upstream. Uranium exploration in this area is currently focused on the Petrified Forest member (Hackman and Olson, 1977), which may be the source of the uranium seen in these anomalous ground-water samples.

Just north of Gallup, three springs and one well have uranium concentrations ranging from 21.09 to 100.63 ppb. Conductivities for these samples are moderate to low and background uranium concentrations for ground waters in this area are generally less than 2 ppb. These ground-water sample locations are in alluvial stream valleys that are underlain by the Cretaceous Menefee formation. The well sample in this cluster has its depth recorded as 4 ft. The Gallup uranium district lies about 15 km to the southeast and there are several airborne radiometric anomalies nearby (Fig. 4).

Other samples containing anomalous uranium concentrations are scattered about the quadrangle; their significance is difficult to assess but should not be overlooked in a closer examination of the data. Additionally, other methods of data evaluation might define other areas of interest, such as considering samples with a high uranium concentration relative to conductivity. For example, sample N08815 located on the southwestern flank of the Defiance Plateau, has a uranium content of 14.58 ppb and a conductance of 520 µmho/cm. This sample could be considered anomalous and may deserve further investigation.

Uranium Concentrations in Sediment Samples

Sediment samples were collected from 1403 locations in the Gallup quadrangle, including 1322 streams and 81 springs. The uranium contents for all

TABLE III

WATER SAMPLES WITH URANIUM CONCENTRATIONS GREATER THAN 20.00 PPB FROM THE GALLUP QUADRANGLE, NEW MEXICO/ARIZONA

Sample Number[a]	Water Source	Uranium (ppb)	pH	Conductivity µmho/cm	Geologic Association[b]
NO8004	Well	30.20	7.8	1000	Qa, Tr cps
NO8236	Well	21.50	6.3	2500	Kcb, Tbu
NO8274	Well	123.30	7.9	900	Kcdc, Kg
NO8319	Well	60.00	7.4	4600	Qa, Tr cp
NO8323	Well	43.00	7.8	910	Qa, Tr co?
NO8330	Spring	89.79	7.7	900	Qa, Kmf
NO8331[c]	Spring	100.63	8.4	1525	Qa, Kmf
NO8332	Well	32.40	8.0	1100	Qa, Kmf
NO8373	Spring	21.09	7.7	650	Qa, Kmf
NO8623	Well	60.47	7.0	1000	Qa, Tr c
NO8637	Spring	22.19	7.0	750	Tbu, Tr wr, Tr co?
NO8811	Spring	25.16	6.7	600	Tbu, Tr cs?, Tr m?
NO8871	Well	34.91	7.1	150	Qa, Tr wr?
NO8923	Well	76.96	7.0	2100	Qa, Tr c?
NO8925	Well	20.63	7.1	2100	Qa, Tr cp
NO8927	Well	27.33	7.2	2600	Qa
NO8929	Spring	35.76	7.0	1800	Jcs
NO8968	Spring	23.05	6.4	640	Qa, Tr cp
NO8972	Well	493.53	6.8	2000	Qa, Tbl
NO9039	Well	48.74	7.2	3350	Qa
NO9047	Well	53.06	7.1	900	Qa
NO9060	Well	38.21	7.3	2110	Qa
NO9095	Well	36.48	7.0	3300	Qa
NO9397	Well	68.85	7.3	2000	Tr co
NO9401	Well	166.15	7.4	6200	Qa
NO9408	Well	95.79	7.7	1300	Qa
NO9459	Well	32.96	7.2	2500	Qa, Jmr?
NO9482	Well	25.75	7.7	12000	Qa
NO9492	Well	52.43	7.7	1100	Qa, Tbu?
NO9661	Well	35.20	8.4	30000	Qa, Kmf
NO9673	Well	38.03	6.2	1850	Qa, Tr cp?
NO9683	Well	124.98	6.2	6900	Tr cp
NO9723	Well	20.48	8.9	1400	Tbu, Tr cp?
NO9748	Well	67.10	7.7	875	Tbu, Tbl?
NO9797[c]	Well	73.55	7.3	1710	Qa, Tr cp?
NO9799	Well	196.35	6.6	1620	Qa, Tr cp?
NO9801	Well	25.46	6.5	1250	Qa, Tr cp?
NO9802	Well	29.34	6.6	1400	Qa, Tr cp?

a See Fig. 5 and Plate I for sample location.
b From Hackman and Olson (1977). Symbols defined in Table I.
c Minor amount of small particles reported in water vial.

sediments range from 1.00 to 25.20 ppm and have a median uranium content of 2.85 ppm. A summary of the statistical data for each sample type is presented in Table IV. Median uranium values vary only slightly except for wet streams, which have a slightly higher median uranium content than the other sample types. For purposes of discussion, all sample types are treated as members of a single population.

The anomaly threshold for sediment samples was arbitrarily chosen at 6 ppm, which includes 26 samples and represents approximately 2% of the sediment population. Most of the anomalous samples are scattered about the quadrangle and their significance is difficult to assess. However, groups of samples occurring in areas of similar geology will be discussed. The relevant data for all samples containing greater than 6 ppm uranium is presented in Table V; Fig. 6 shows their locations.

One group of anomalous samples, consisting of three dry stream sediments, is from the Black Mesa Basin. Several stream samples with uranium concentrations that might be considered subanomalous (range 4.6-5.6 ppm) are also from this area. The streams from which these samples were collected drain predominantely Mancos shale and Toreva formation. The Toreva formation contains a carbonaceous middle member (Hackman and Olson, 1977), which may be a favorable host rock for uranium mineralization.

A large, widely spaced group of samples with anomalous uranium concentrations is located in the east-central portion of the quadrangle and lies primarily within the Gallup sag (Fig. 3). These samples are associated predominantly with the Cretaceous Menefee formation and, to a lesser extent, with the Dilco Coal member of the Cretaceous Crevasse Canyon formation. The anomalous uranium concentrations in these samples may simply reflect the higher background uranium concentrations associated with formations containing carbonaceous units; however, further investigation in this area is needed to determine the significance of these spatially associated samples.

Another group of anomalous samples consists of two springs and one stream on the western flank of the Zuni Mountains. The springs emerge at or near the contact where the Permian Abo formation is faulted against the Precambrian granitic rocks. The spring samples contain the two highest uranium values and two of the three highest U/Th ratios in sediments from the Gallup quadrangle. The stream sample is from a stream that drains both Abo formation and Precambrian units. Brookins (1979) found the Precambrian rocks of the Zuni Mountains are not particularly high in uranium. Therefore, the source of the uranium

TABLE IV

SUMMARY OF URANIUM DATA FOR SEDIMENT SAMPLES
FROM THE GALLUP QUADRANGLE, NEW MEXICO/ARIZONA

Sample Type	Sample Size	Range (ppm)	Mean (ppm)	Standard Deviation	Median (ppm)
All Sediments	1403	1.00 - 25.20	3.03	1.33	2.85
Wet Streams	31	1.10 - 7.20	3.42	1.48	3.20
Dry Streams	1291	1.00 - 12.44	3.00	1.05	2.84
Wet Springs	42	1.00 - 25.20	3.60	4.53	2.55
Dry Springs	39	1.04 - 11.39	3.27	1.87	2.94

TABLE V

SEDIMENT SAMPLES WITH URANIUM CONCENTRATIONS GREATER THAN 6.0 PPM FROM THE GALLUP QUADRANGLE, NEW MEXICO/ARIZONA

Sample Number[a]	Sediment Source	Uranium (ppm)	U/Th Ratio	Geologic Association[b]	Associated Elements[c]
NO8108	Wet Stream	7.20	0.29	pЄ, Pa, Qa	Al, Li, Mg, Mn, Na, Rb, REE, Th, V, Zn
NO8115	Wet Spring	25.20	1.05	pЄ, Pa	Hf, K, Na, Ni, REE, Th
NO8118	Wet Spring	21.20	0.92	pЄ, Pa	Ba, Co, Cr, Cu, Hf, Li, Mg, Na, Ni, Rb, REE,Sr, Th, Ti, V, W, Zn
NO8209	Dry Stream	6.30	0.29	Qa, Kcdc	Ba, Co, Fe, Hf, REE, Th
NO8342	Dry Stream	6.60	0.28	Qa, Kmf	Ba, Co, Hf, REE, Th, Ti
NO8347	Dry Stream	8.20	0.23	Kmf	Ba, Hf, Mn, Na, REE, Th, Ti
NO8353	Dry Stream	7.50	0.32	Qa, Kc	Ba, Co, Hf, Na, REE, Th
NO8364	Dry Stream	6.23	0.38	Qa, Kmf	Ba, Hf, Mg, Mn, Na, Th, Zn
NO8391	Dry Spring	7.67	0.56	Kd	Hf, Li, Pb, Th, Zn
NO8460	Dry Stream	10.66	0.34	Kc, Kpl	Ba, Bi, Hf, Ni, REE, Th
NO8648	Dry Stream	6.67	0.36	Kg, Kcdc, Kcb	Ba, Hf, REE, Th, Zn
NO8669	Dry Stream	8.82	0.39	Qa, Kg, Kms	Cr, Hf, Ree, Th
NO8704	Dry Stream	7.81	0.37	Pdc, Tᵣm, Tᵣcs	Bi, Hf, Mn, REE, Th
NO8902	Dry Stream	6.67	0.52	Pdc,Tᵣcs	Cr, Hf, REE, Th, Ti
NO9076	Dry Stream	11.04	0.18	Qs, Kt	Bi, Hf, REE, Ta, Th, Ti, Zn
NO9085	Dry Stream	11.15	0.22	Kms, Kt	Bi, Hf, REE, Th, Ti
NO9089	Dry Stream	6.08	0.18	Qs, Kms, Kt	Hf, REE, Th, Zn
NO9112	Wet Stream	7.15	0.23	Qa, Tc	Hf, REE, Ta, Th, Ti
NO9120	Dry Stream	7.29	0.28	Qa, Kmf	Ba, Cr, Hf, REE, Th, Zn
NO9152	Dry Stream	6.21	0.26	Qa, Kmf	Ca, Cr, Hf, Mn, Na, Rb, REE, Th, Ti, V, Zn
NO9211	Dry Stream	6.91	0.28	Qa, Kmf	Ba, Cr, Hf, Mn, REE, Th, V, Zn
NO9225	Dry Spring	11.39	0.19	Qa, Kmf, Kpl	Ba, Cr, Hf, REE, Th, Ti, Zn
NO9269	Dry Stream	9.85	0.48	Tv, P IPs	Ag, Cd, Co, Cr, Fe, Hf, Ni, Th, Ti, V
NO9318	Dry Stream	12.44	0.18	Kpl, Kmf	Cr, Hf, Ni, REE, Th, Ti
NO9560	Wet Stream	7.13	0.39	Pdc, Tᵣc	Ba, Cr, Hf, Mn, REE, Th, Ti, V
NO9596	Dry Stream	6.01	0.39	Pdc	Ba, Hf, REE, Th

a See Fig. 6 and Plate I for sample location.
b From Hackman and Olson (1977). Geologic symbols defined in Table I.
c These elements are present in concentrations significantly above the median values for all sediment samples. REE = Rare-Earth Elements.

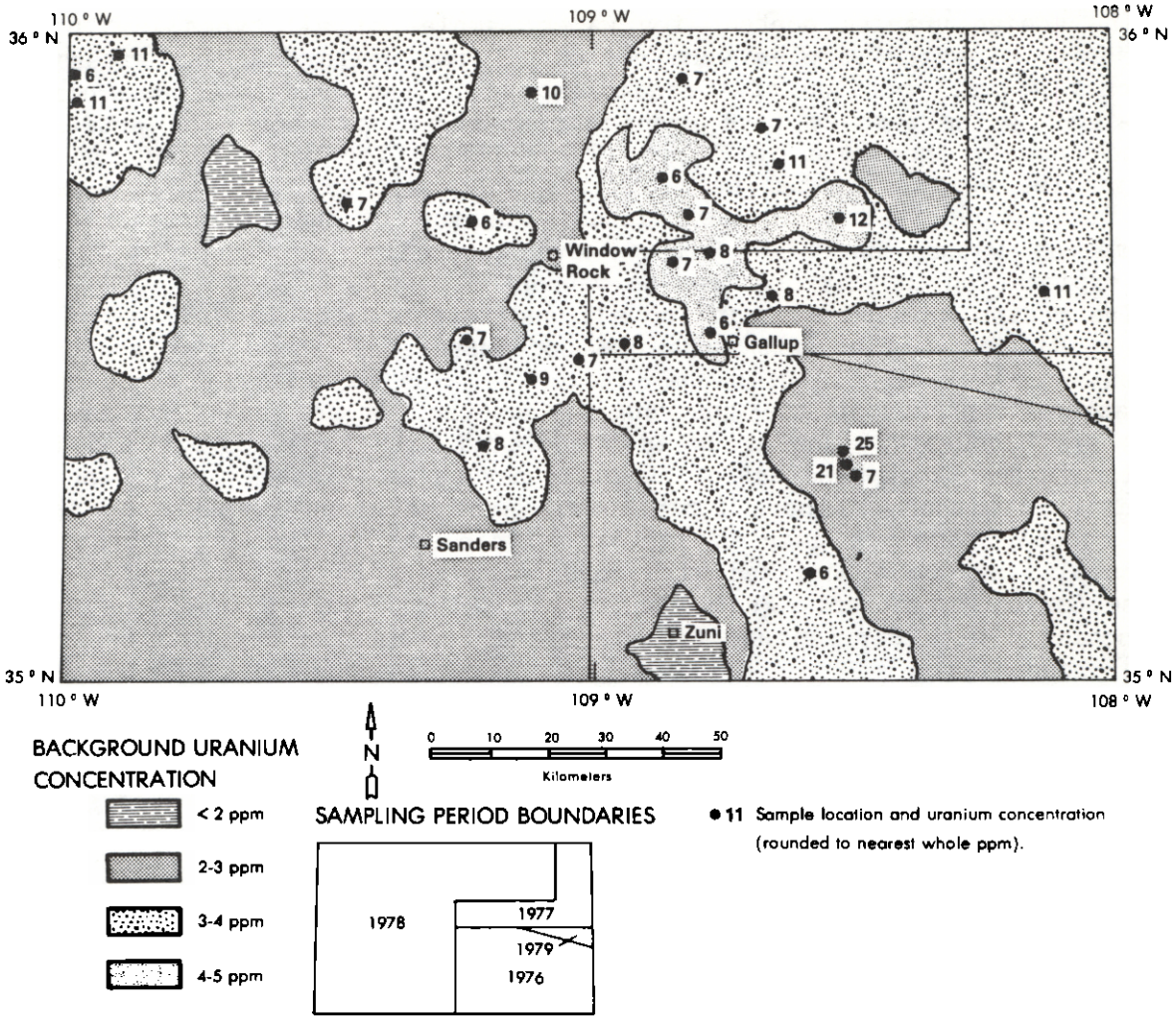

Fig. 6 Map showing background uranium concentrations and locations of sediment samples containing greater than 6 ppm uranium from the Gallup quadrangle, New Mexico/Arizona.

may be the Abo formation, which is known to be a host for minor uranium deposits (Hackman and Olson, 1977). It should be noted that the field sampler recorded an oily substance on the surface of the water for samples N08108 and N08118.

Field samplers were careful to avoid contamination from mine tailings within the uranium mining districts. Since the mineralized zones in these areas are underground, no large anomalies would be expected to be associated with these districts.

V. SUMMARY AND CONCLUSIONS

Totals of 516 water and 1403 sediment samples were collected from 1856 locations in the Gallup quadrangle. Samples were collected at an average

density of one per 11 km^2 over a 20 100 km^2 area. Water samples were collected from streams, springs, and wells. Sediment samples were collected from streams and springs.

The median uranium content for water samples of all types is 1.60 ppb. The majority of water samples were collected from wells. Stream waters comprise only a small portion of the samples due to the aridity of the climate. Thirty-eight water samples have uranium concentrations above the arbitrarily selected anomaly threshold of 20 ppb (Table III). The majority of the anomalous samples were collected from shallow wells within alluvial stream valleys. High conductivities are associated with most of these samples. A group of anomalous waters north of Gallup have generally low conductivities and future exploration in this area may be warranted.

The median uranium content for all sediment samples is 2.85 ppm. There are 26 sediment samples with uranium concentrations above the arbitrarily selected anomaly threshold of 6 ppm (Table V). The majority of these samples are scattered throughout the quadrangle; however, three groups of anomalous samples are discussed. One group is associated with Mancos shale and Toreva formation in the Black Mesa Basin. Uranium may be associated with the organic-rich units in either of these formations. Another group consists of several widely spaced anomalous samples largely within the Gallup sag. Uranium in these samples may be associated with carbonaceous units in the Menefee and/or Crevasse Canyon formation. Sediments in the third group of anomalous samples are associated with Permian Abo formation and Precambrian crystalline rock of the Zuni Mountains.

A more thorough evaluation of the data is needed to determine the significance of the anomalous samples described above, as well as the significance of those samples with uranium concentrations below the arbitrary anomaly threshold. Such a detailed evaluaItion left to the reader. However, experience at the LASL with HSSR data from other areas has shown that contouring the data is particularly useful for evaluating the relationships between the uranium data and other environmental and geologic factors. In turn, these relationships can be used to identify new areas worthy of more detailed investigation.

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APPENDIX I

LISTINGS OF FIELD DATA AND ELEMENTAL CONCENTRATIONS FOR SAMPLES FROM THE GALLUP NTMS QUADRANGLE, NEW MEXICO/ARIZONA

APPENDIX I-A

Listings of Field Data and Uranium Concentrations
for Water Samples from the Gallup Quadrangle, New Mexico/Arizona
(Pages 18 through 28)

(See Appendix III-B 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
35-35.3492-108.0336-2-08-						0-N08001-05/27/76-12-	25-17.5-C-		-	6.9-	1150-																							3.93
35-35.3700-108.0875-2-08-						0-N08004-05/27/76-13-	25-19.5-C-		-	7.8-	1000-																							30.20*
35-35.3492-108.2281-2-08-						0-N08012-05/27/76-17-	23-17.5-C-		-	7.8-	520-																							0.10
35-35.4431-108.4450-2-08-						0-N08017-05/27/76-14-	23-24.0-C-		-	8.3-	800-																							0.93
35-35.4392-108.3972-2-08-						0-N08024-05/27/76-16-	20-17.1-C-		-	7.4-	800-																							0.47
35-35.4303-108.4797-2-07-						0-N08026-05/28/76-10-	25-15.0-C-		-	8.1-	700-																							4.33
35-35.4244-108.4867-2-06-						0-N08027-05/28/76-11-	21-13.2-C-		-	6.8-	575-																							2.00
35-35.3981-108.5225-2-06-						0-N08028-05/28/76-11-	21-13.6-C-		-	6.9-	700-																							4.41
35-35.3603-108.4869-2-08-						0-N08029-05/28/76-12-	22-10.C-C-		-	7.1-	525-																							4.17
35-35.3642-108.4761-2-08-						0-N08030-05/28/76-13-	22- 8.0-C-		-	7.2-	625-																							1.89
35-35.3136-108.4403-2-08-						0-N08032-05/28/76-15-	23-11.0-		-	6.4-	1100-																							3.33
35-35.3011-108.0869-2-07-						0-N08034-05/28/76- 9-	19-13.0-		-	8.4-	500-																							1.11
35-35.2972-108.0728-2-07-						0-N08035-05/28/76-10-	22-13.5-		-	8.2-	510-																							0.83
35-35.3247-108.1625-2-07-						0-N08038-05/28/76-13-	23-19.5-C-		-	8.5-	510-																							2.38
35-35.2183-108.1483-2-07-						0-N08040-05/28/76-16-	27-24.0-C-		-	8.2-	295-																							1.96
35-35.2281-108.1947-2-07-						0-N08044-05/28/76-18-	23-17.5-C-		-	8.3-	520-																							0.33
35-35.1058-108.1292-2-07-						0-N08048-05/29/76-16-	25-16.0-C-		-	7.2-	320-																							0.30
35-35.2131-108.2003-2-07-						0-N08049-05/31/76-11-	20-15.0-C-		-	6.8-	135-																							0.21
35-35.1908-108.2258-2-07-						0-N08050-05/31/76-11-	19-15.0-C-		-	8.1-	438-																							3.36
35-35.1869-108.2269-2-07-						0-N08051-05/31/76-12-	18-16.0-		-	7.9-	362-																							7.36
35-35.1761-108.2481-2-07-						0-N08052-05/31/76-12-	20-24.0-C-		-	7.9-	790-																							4.04
35-35.1764-108.2514-2-06-						0-N08053-05/31/76-13-	20-28.0-C-		-	8.2-	380-																							12.80*
35-35.1992-108.3450-2-06-						0-N08055-05/31/76-16-	24-18.0-C-		-	7.3-	385-																							0.30
35-35.2336-108.3208-2-07-						0-N08057-05/31/76-18-	17-20.0-		-	8.2-	520-																							0.10
35-35.2250-108.3525-2-06-						0-N08062-06/01/76-12-	26-11.0-		-	7.4-	510-																							2.38
35-35.0894-108.2650-2-07-						0-N08068-05/28/76-19-	23-10.5-		-	8.4-	455-																							0.54
35-35.0822-108.2703-2-06-						0-N08070-05/28/76-20-	24-15.0-C-		-	7.7-	1400-																							1.59
35-35.0444-108.3122-2-06-						0-N08071-05/29/76-12-	20-15.7-		-	8.2-	415-																							1.87
35-35.1064-108.3389-2-08-						0-N08076-05/29/76-16-	26-15.0-C-		-	7.8-	275-																							0.10
35-35.1156-108.3694-2-08-						0-N08079-05/29/76-18-	29-20.0-C-		-	7.7-	450-																							1.83
35-35.0992-108.3867-2-08-						0-N08080-05/29/76-18-	25-12.3-		-	8.2-	950-																							8.04
35-35.0953-108.3822-2-08-						0-N08081-05/29/76-18-	21-12.3-		-	8.3-	680-																							3.69
35-35.1133-108.4336-2-08-						0-N08083-05/29/76-20-	22-14.8-		-	7.6-	650-																							0.78
35-35.1189-108.4867-2-08-						0-N08084-05/30/76- 8-	12-11.2-C-		-	7.4-	725-																							5.50
35-35.0922-108.4381-2-08-						0-N08085-05/30/76- 9-	20-10.5-C-		-	9.0-	620-																							10.20*
35-35.3931-108.3931-2-07-						0-N08092-05/28/76-17-	24-19.0-		-	7.0-	125-																							0.28
35-35.4094-108.2994-2-08-						0-N08098-05/29/76-11-	22-14.2-C-		-	7.4-	400-																							2.86
35-35.4008-108.2719-2-08-						0-N08099-05/29/76-11-	23-17.0-C-		-	7.4-	425-																							4.07
35-35.2903-108.4278-2-06-						0-N08103-05/29/76-15-	23- 9.1-C-		-	7.5-	550-																							2.88
35-35.2847-108.4214-2-06-						0-N08104-05/29/76-15-	23-22.0-		-	7.4-	750-																							0.65
35-35.1214-108.0250-2-08-						0-N08106-05/30/76-11-	24-14.0-C-		-	7.6-	355-																							0.82
35-35.3264-108.4983-2-07-						0-N08108-05/29/76-17-	26-18.1-C-		-	7.7-	300-																							0.40
35-35.3267-108.4997-2-07-						0-N08109-05/29/76-17-	19-25.0-C-		-	8.7-	375-																							1.36
35-35.3886-108.5475-2-08-						0-N08114-05/30/76-12-	23-10.2-C-		-	7.6-	450-																							0.33
35-35.3481-108.5117-2-06-						0-N08115-05/30/76-13-	16-12.5-C-		-	7.9-	475-																							17.70*
35-35.3369-108.5161-2-06-						0-N08117-05/30/76-14-	20-18.C-C-		-	7.9-	500-																							7.45
35-35.3350-108.5067-2-06-						0-N08118-05/30/76-15-	17-19.0-		-	8.0-	600-																							2.46
35-35.3756-108.6011-2-06-						0-N08120-05/31/76-13-	25-23.2-C-		-	7.2-	345-																							0.32
35-35.3328-108.6342-2-06-						0-N08122-05/31/76-15-	20-22.2-C-		-	8.0-	1575-																							4.64
35-35.3517-108.6742-2-08-						0-N08123-05/31/76-16-	22-20.0-C-		-	8.3-	500-																							0.10
35-35.3514-108.6742-2-08-						0-N08124-05/31/76-16-	22-14.3-C-		-	8.8-	600-																							0.10

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
35-35.0156-108.4547-2-08-						0-N08128-05/30/76-11-	24-	9.0-C-	-	9.6-	1075-	15-1-6-	-	-	-	-	-4-	3-	2-	2-	-3-	1-	4-	-	-	4.29								
35-35.0458-108.4506-2-08-						0-N08129-05/30/76-11-	24-	12.0-	-	7.9-	580-	11-1-6-	-	-	-	-	-4-	3-	2-	2-	-3-	3-	6-	-	-	3.03								
35-35.0511-108.4331-2-08-						0-N08132-05/30/76-12-	23-	12.8-C-	-	7.9-	387-	11-1-6-	-	-	-	-	-4-	3-	2-	2-	-1-	1-	4-	-	-	2.40								
35-35.0486-108.3772-2-08-						0-N08133-05/30/76-13-	19-	12.0-	-	7.9-	500-	-1-4-	-	-	-	-	-4-	3-	2-	2-	-1-	3-	6-	-	-	5.37								
35-35.0042-108.0461-2-08-						0-N08135-05/31/76-12-	24-	13.2-	-	7.7-	275-	11-1-6-	-	-	-	-	-4-	3-	2-	2-	-	-1-	6-	-	-	0.19								
35-35.1489-108.1933-2-07-						0-N08144-06/01/76-18-	23-	23.5-C-	-	9.8-	135-	18-4-4-5-6-1-2-2-3-4-3-3-3-									-3-	-	-	-	-	0.10								
35-35.1339-108.1689-2-06-						0-N08145-06/01/76-19-	20-	15.0-	-	6.6-	129-	6-1-6-5-6-1-3-2-					-4-4-3-3-				-3-	-	-	-	-	0.10								
35-35.2394-108.3375-2-06-						0-N08152-06/02/76-14-	22-	9.8-	-	7.1-	430-	6-1-3-6-6-3-3-2-					-2-4-4-2-				-3-	-	-	-	-	0.40								
35-35.2728-108.3347-2-07-						0-N08154-06/02/76-15-	24-	25.1-	-	8.0-	620-	12-1-3-5-6-1-2-1-2-1-3-2-2-									-3-	-	-	-	-	1.77								
35-35.2744-108.6175-2-08-						0-N08157-05/31/76-18-	25-	18.0-	-	8.3-	900-	7-1-6-	-	-	-	-	-4-	3-	2-	2-	-	-	-	-	-	0.10								
35-35.2817-108.5533-2-06-						0-N08160-06/01/76- 9-	14-	9.0-C-	-	7.4-	600-	-1-1-4-6-2-2-1-					-4-3-2-1-				-9-	-	-	-	-	1.64								
35-35.3297-108.5736-2-06-						0-N08162-06/01/76-10-	17-	9.9-C-	-	7.3-	2225-	9-1-6-4-6-2-2-1-					-1-3-2-1-				-1-	-	-	-	-	14.30*								
35-35.3064-108.5650-2-06-						0-N08163-06/01/76-10-	17-	12.0-C-	-	7.1-	1050-	4-1-6-	-	-2-2-1-			-1-2-2-1-				-9-	-	-	-	-	4.00								
35-35.2800-108.5731-2-08-						0-N08165-06/01/76-11-	21-	17.2-C-	-	8.1-	1275-	-1-6-	-	-3-4-1-			-4-3-2-1-				-1-1-	8-	-	-	-	0.10								
35-35.1747-108.4467-2-08-						0-N08168-06/01/76-14-	24-	19.1-C-	-	8.2-	600-	-1-4-	-	-	-3-5-		-4-3-2-2-				-1-	-14-	-	-	-	3.10								
35-35.1361-108.0342-2-08-						0-N08172-05/30/76-13-	22-	14.0-C-	-	7.4-	440-	-1-6-	-	-3-4-1-			-1-4-3-2-				-3-1-	3-	-	-	-	3.43								
35-35.1042-108.0297-2-08-						0-N08176-05/30/76-14-	24-	20.0-C-	-	7.5-	375-	-1-1-	-	-3-3-1-			-3-3-2-2-				-1-3-	3-	-	-	-	2.66								
35-35.1017-108.0472-2-06-						0-N08177-05/30/76-15-	22-	21.0-	-	8.0-	410-	-3-8-	-	-2-3-1-			-1-3-3-2-				-3-	-	-	-	-	1.90								
35-35.2136-108.0169-2-08-						0-N08182-05/31/76-12-	29-	14.5-	-	8.5-	475-	-1-1-	-	-3-3-1-			-4-3-2-2-				-3-1-	3-	-	-	-	1.30								
35-35.2206-108.0317-2-08-						0-N08184-05/31/76-17-	30-	17.5-C-	-	9.0-	430-	-1-4-	-	-2-2-1-			-4-3-2-2-				-3-1-	5-	-	-	-	0.44								
35-35.1953-108.4833-2-08-						0-N08188-06/01/76-15-	25-	19.0-C-	-	8.2-	525-	-1-1-	-	-	-3-1-		-1-3-2-2-				-1-	-18-	-	-	-	4.36								
35-35.1678-108.4133-2-08-						0-N08189-06/01/76-15-	21-	12.1-	-	7.3-	575-	-1-4-	-	-3-3-1-			-2-3-1-2-				-1-1-	8-	-	-	-	5.83								
35-35.1375-108.4222-2-08-						0-N08191-06/01/76-16-	26-	15.7-	-	8.7-	925-	-1-6-	-	-2-2-1-			-4-2-2-2-				-1-1-	8-	-	-	-	14.50*								
35-35.2175-108.4453-2-08-						0-N08194-06/02/76- 9-	17-	11.9-	-	7.4-	525-	-1-6-	-	-2-3-1-			-1-3-2-1-				-1-	-	-	-	-	11.50*								
35-35.2153-108.4211-2-06-						0-N08195-06/02/76- 9-	17-	6.8-C-	-	7.5-	375-	14-1-6-6-6-2-2-1-					-2-3-2-1-				-1-	-	-	-	-	0.10								
35-35.2383-108.5200-2-07-						0-N08202-06/02/76-14-	26-	23.0-	-	8.3-	400-	4-1-6-4-6-3-2-4-2-1-3-3-2-									-1-	-	-	-	-	1.38								
35-35.2425-108.5578-2-08-						0-N08203-06/02/76-14-	25-	17.8-C-	-	8.2-	1025-	-1-6-	-	-	-4-2-		-4-2-2-2-				-	-1-	8-	-	-	0.10								
35-35.2017-108.5564-2-08-						0-N08206-06/02/76-15-	30-	14.7-	-	7.8-	1400-	-1-6-	-	-3-4-1-			-3-3-3-2-				-1-1-	8-	-	-	-	0.10								
35-35.1553-108.6392-2-08-						0-N08211-06/02/76-16-	25-	15.9-C-	-	7.6-	1750-	-1-6-	-	-4-2-1-			-1-3-3-2-				-9-1-	6-	-	-	-	0.10								
35-35.0461-108.3611-2-08-						0-N08213-06/03/76-10-	22-	13.1-C-	-	8.1-	400-	-1-6-	-	-2-3-1-			-3-3-2-1-				-9-3-	8-	247-	130-		2.69								
35-35.1158-108.6253-2-08-						0-N08215-06/03/76-11-	23-	21.2-C-	-	8.4-	1150-	-1-6-	-	-3-4-1-			-1-3-2-1-				-9-1-	8-	-	-	-	0.10								
35-35.0536-108.5972-2-08-						0-N08217-06/03/76-11-	28-	17.7-	-	8.8-	1100-	-1-6-	-	-4-4-1-			-3-2-2-2-				-1-1-	8-	-	-	-	0.10								
35-35.0539-108.5489-2-08-						0-N08218-06/03/76-11-	25-	17.0-C-	-	8.2-	3800-	-1-6-	-	-3-2-1-			-1-3-2-2-				-1-1-	8-	-	-	-	0.10								
35-35.0458-108.6600-2-08-						0-N08221-06/03/76-12-	25-	18.3-C-	-	7.9-	2800-	-1-6-	-	-2-2-1-			-1-3-2-2-				-1-	-	-	-	-	7.90								
35-35.0011-108.6750-2-08-						0-N08223-06/03/76-16-	26-	17.4-C-	-	7.8-	1200-	-1-6-	-	-4-4-1-			-3-3-2-2-				-9-	-	-	-	-	0.71								
35-35.3311-108.2269-2-08-						0-N08229-06/02/76-19-	20-	11.3-	-	7.3-	470-	6-4-	-	-	-3-3-5-		-1-2-2-2-				-3-3-	5-	-	-	-	0.17								
35-35.1133-108.5814-2-06-						0-N08232-06/03/76-17-	26-	14.9-C-	-	8.0-	490-	-1-6-	-	-3-3-2-			-4-3-2-2-				-9-	-	-	-	-	1.16								
35-35.1117-108.5689-2-06-						0-N08233-06/03/76-17-	26-	12.5-C-	-	7.8-	460-	-3-5-	-	-3-3-1-			-3-4-2-2-				-9-	-	-	-	-	1.84								
35-35.0764-108.5031-2-08-						0-N08234-06/04/76-12-	24-	16.2-C-	-	7.7-	500-	-1-6-	-	-3-4-1-			-2-2-1-1-				-1-1-	8-	-	-	-	2.42								
35-35.0078-108.5217-2-08-						0-N08235-06/04/76-14-	28-	14.9-C-	-	8.4-	950-	-1-6-	-	-3-4-1-			-1-3-2-1-				-9-1-	6-	-	-	-	0.10								
35-35.3114-108.7231-2-08-						0-N08236-07/14/76-12-	27-	16.0-	-	6.3-	2500-	7-1-6-	-	-3-3-1-			-3-3-2-2-				-1-1-	8-	-	-	-	21.50*								
35-35.3614-108.7228-2-08-						0-N08237-07/14/76-10-	23-	15.0-	-	8.4-	550-	13-1-6-	-	-3-3-1-			-1-3-2-2-				-1-3-	3-	240-			0.17								
35-35.2764-108.9800-2-08-						0-N08254-07/14/76-14-	29-	16.0-	-	8.1-	440-	13-1-6-	-	-3-3-1-			-1-3-2-2-				-1-8-	-	-	-	-	3.05								
35-35.2925-108.9219-2-08-						0-N08255-07/14/76-14-	29-	19.0-C-	-	9.3-	910-	7-1-6-	-	-2-2-1-			-3-3-2-2-				-3-1-	4-	-	-	-	0.79								
35-35.3078-108.9508-2-06-						0-N08256-07/14/76-15-	29-	16.0-	-	8.0-	420-	3-1-1-	-	-3-3-1-			-1-4-3-2-				-1-	-	-	-	-	2.47								
35-35.4567-108.8197-2-08-						0-N08267-07/08/76-16-	29-	22.0-C-	-	8.7-	510-	14-1-1-	-	-	-3-1-		-3-3-3-2-				-1-	-10-	-	-	-	0.54								
35-35.4750-108.8897-2-08-						0-N08271-07/09/76-12-	32-	15.7-	-	8.9-	1250-	11-1-1-	-	-2-3-1-			-3-3-3-2-				-1-3-	6-	-	-	-	0.10								
35-35.4458-108.9039-2-08-						0-N08274-07/09/76-15-	32-	17.2-C-	-	7.9-	900-	9-1-1-	-	-	-2-1-		-1-3-2-2-				-1-1-	8-	-	-	-	123.30*								
35-35.4314-108.9128-2-06-						0-N08276-07/09/76-16-	34-	20.7-C-	-	8.0-	640-	11-1-6-	-	-	-2-	-	-3-4-3-2-				-1-	-	-	-	-	5.74								
35-35.4042-108.9656-2-06-						0-N08278-07/09/76-17-	33-	24.5-	-	7.4-	3600-	16-1-1-	-	-2-3-1-			-3-2-4-2-				-1-	-	-	-	-	6.53								
35-35.4992-108.7297-2-08-						0-N08282-07/10/76-13-	34-	18.2-	-	8.2-	910-	18-1-1-	-	-3-3-1-			-3-4-3-2-				-1-3-	6-	551-	450-		0.10								

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-	35.4464-	108.6317-2-08-				0-N08286-07/10/76-17-	33-12.8-	-	-	7.7-	5100-	28-1-1-	-	-3-3-1-	-1-4-3-2-	-1-7-	6-	-	-	16.20*
35-	35.0769-	108.7314-2-08-				0-N08289-07/09/76-11-	31-26.0-C-	-	8.1-	775-	10-1-4-	-	-1-4-1-	-3-3-4-1-	-9-1-	-	-	-	3.22
35-	35.1722-	108.7478-2-08-				0-N08291-07/09/76-12-	31-15.2-C-	-	7.5-	600-	8-1-1-	-	-3-3-1-	-4-3-4-1-	-1-1-	6-	-	-	0.10
35-	35.2356-	108.7456-2-08-				0-N08292-07/09/76-13-	31-26.0-C-	-	7.6-	420-	7-1-2-	-	-3-3-1-	-1-3-3-2-	-7-3-	6-450-	425-	0.10
35-	35.1544-	108.7217-2-08-				0-N08293-07/09/76-13-	29-16.0-	-	7.8-	1050-	8-1-2-	-	-3-3-1-	-3-3-4-2-	-1-1-	6-	-	-	0.19
35-	35.2117-	108.6550-2-08-				0-N08296-07/09/76-15-	30-23.5-C-	-	8.6-	700-	10-1-1-	-	-3-3-1-	-1-3-4-2-	-8-2-	6-	-	-	0.10
35-	35.1828-	108.9775-2-08-				0-N08299-07/08/76-11-	30-20.0-	-	7.6-	2950-	3-1-6-	-	-2-2-2-	-1-4-2-2-	-3-1-	-	-	-	0.10
35-	35.1628-	108.8578-2-08-				0-N08300-07/08/76-12-	30-18.0-	-	7.4-	850-	10-1-4-	-	-2-3-2-	-3-3-2-2-	-3-1-	6-	-	-	5.10
35-	35.4025-	108.6572-2-08-				0-N08305-07/07/76-16-	28-15.2-C-	-	7.4-	1000-	16-1-1-	-	- - - -	-4-3-3-2-	-1-7-	6-	-	-	8.01
35-	35.3989-	108.6806-2-08-				0-N08306-07/07/76-17-	28-15.2-	-	7.6-	1430-	18-1-1-	-	- - - -	-1-3-3-2-	-1-7-	6-	-	20-	6.81
35-	35.4222-	108.7233-2-08-				0-N08309-07/07/76-18-	28-12.1-C-	-	7.6-	1400-	32-1-1-	-	- -3-1-	-3-3-3-2-	-1-7-	6-	-	-	9.83
35-	35.4469-	108.7133-2-08-				0-N08311-07/07/76-18-	27-14.0-C-	-	8.0-	1200-	11-1-1-	-	- -3-1-	-1-4-3-2-	-1-7-	6-	-	-	5.29
35-	35.4681-	108.7719-2-08-				0-N08312-07/08/76-13-	30-17.9-C-	-	8.4-	1420-	9-1-1-	-	-3-3-1-	-4-2-3-2-	-1-3-	4-	-	-	0.61
35-	35.0528-	108.9647-2-08-				0-N08317-07/07/76-15-	26-17.0-	-	8.4-	1500-	8-1-4-	-	-2-2-1-	-1-2-2-2-	-1-1-	6-	-	-	7.66
35-	35.0222-	108.9428-2-08-				0-N08319-07/07/76-18-	33-16.0-	-	7.4-	4600-	7-1-6-	-	-2-2-1-	-3-3-3-2-	-3-1-	8-	-	-	60.00*
35-	35.0050-	108.9847-2-08-				0-N08320-07/07/76-18-	32-14.5-	-	7.8-	900-	10-1-6-	-	-2-4-1-	-4-3-2-2-	-3-1-	2-	-	-	4.95
35-	35.0186-	108.9069-2-08-				0-N08322-07/07/76-19-	32-15.5-C-	-	7.3-	2225-	3-1-4-	-	-4-3-1-	-4-4-1-2-	-1-1-	8-	-	-	5.72
35-	35.0886-	108.9339-2-08-				0-N08323-07/08/76- 8-	26-15.5-	-	7.8-	910-	5-1-6-	-	-2-2-1-	-3-3-2-1-	-3-1-	6-	-	-	43.00*
35-	35.1111-	108.9647-2-08-				0-N08326-07/08/76- 9-	28-17.0-C-	-	7.9-	430-	5-1-6-	-	-2-2-1-	-1-4-2-1-	-3-1-	8-	-	-	0.10
35-	35.1456-	108.9950-2-08-				0-N08327-07/08/76- 9-	28-19.0-	-	9.0-	1225-	5-1-6-	-	-2-3-1-	-3-4-2-1-	-3-1-12-	-	-	14.30*
35-	35.6136-	108.0958-2-08-				0-N08328-09/24/77-15-	25-16.0-C-	-	6.5-	4300-	10-1-1-	-	- -3-1-	-3-3-3-2-	-1-4-	6-	-	-	0.97
35-	35.6128-	108.0211-2-08-				0-N08329-09/24/77-12-	24-15.0-C-	-	7.3-	1600-	12-1-1-	-	- - -2-	-3-2-2-2-	-1-1-	6-	-	-	1.19
35-	35.6586-	108.7322-2-06-				0-N08330-09/22/77- 8-	14-18.5-C-	-	7.7-	900-	12-1-2-	-	- - -1-	-3-2-3-1-	-9-	-	-	-	89.79*
35-	35.6581-	108.7314-2-06-				0-N08331-09/22/77- 8-	15-10.8-C-	-	8.4-	1525-	17-1-2-4-	1-2-3-2-	-4-3-3-1-	-1-	-	-	-	100.63*
35-	35.6533-	108.7433-2-08-				0-N08332-09/22/77- 8-	16-16.0-C-	-	8.0-	1100-	17-1-1-	-	- -3-1-	-3-3-3-1-	-1-7-48-	4-	3-	32.40
35-	35.6592-	108.6503-2-08-				0-N08334-09/22/77-11-	18-15.4-C-	-	7.5-	1450-	6-1-1-	-	- - -1-	-1-3-3-1-	-9-1-	8-	-	-	0.32
35-	35.6550-	108.9486-2-06-				0-N08337-09/20/77-12-	24- -C-	-	8.0-	342-	104-1-1-	5-1-4-3-1-	-3-4-2-1-	-9-	-	-	-	18.76
35-	35.6283-	108.9558-2-08-				0-N08338-09/20/77-12-	25-20.0-C-	-	8.6-	1250-	139-1-1-	-	-5-2-1-	-2-3-3-1-	-9-5-	8-700-	500-	0.40
35-	35.6467-	108.8356-2-08-				0-N08343-09/20/77-13-	24-16.7-C-	-	9.2-	900-	127-1-1-	-	-3-3-1-	-1-3-2-1-	- -1-	6-	-	-	0.59
35-	35.6281-	108.7794-2-08-				0-N08346-09/20/77-11-	23-28.2-C-	-	8.6-	950-	104-1-1-	-	-4- -1-	-1-2-3-1-	- -3-	-	-	-	1.03
35-	35.6294-	108.9961-2-07-				0-N08348-09/20/77-13-	26-20.0-C-	-	8.1-	1800-	127-1-1-	3-1-3-3-2-	2-3-3-3-1-	-9-	-	-	-	7.07
35-	35.5058-	108.9897-2-08-				0-N08351-09/21/77-11-	26-15.0-	-	7.1-	650-	127-1-1-	-	-3-3-1-	-3-3-3-1-	-1-4-	4-	-	-	0.91
35-	35.6100-	108.9200-2-08-				0-N08352-09/20/77-13-	26-18.0-C-	-	6.8-	960-	104-1-1-	-	-3-3-1-	-3-3-3-1-	-9-	-	4-	25-	15-	4.80
35-	35.5244-	108.7842-2-08-				0-N08363-09/21/77-19-	17-19.5-C-	-	7.3-	1400-	115-1-1-	-	-3-3-1-	-2-3-2-1-	-1-	-	-	-	-	0.90
35-	35.5672-	108.7664-2-08-				0-N08365-09/21/77-19-	23-25.5-C-	-	8.2-	950-	104-1-1-	-	-3-3-1-	-4-3-3-1-	-9-6-	10-	250-	100-	0.40
35-	35.6097-	108.8294-2-08-				0-N08368-09/21/77-17-	21-17.2-C-	-	9.2-	1050-	81-1-1-	-	-1-3-2-	-4-4-1-1-	-1-5-	4-	-	-	0.81
35-	35.5536-	108.8519-2-08-				0-N08370-09/21/77-14-	26-21.0-C-	-	8.9-	620-	121-1-1-	-	-4-3-1-	-4-3-3-1-	-1-6-10-	-	-	-	0.49
35-	35.5031-	108.8472-2-08-				0-N08371-09/21/77-13-	25-15.0-	-	7.2-	560-	57-1-1-	-	-4-3-1-	-3-2-1-1-	-1-5-	6-300-	100-	0.79
35-	35.5914-	108.7672-2-06-				0-N08373-09/20/77-19-	20-10.8-C-	-	7.7-	650-	34-1-1-	-	-2-3-1-	-1-2-3-1-	-1-	-	-	-	21.09
35-	35.5144-	108.8439-2-08-				0-N08377-09/20/77-15-	25-20.2-C-	-	7.5-	1100-	197-1-1-	-	-3-3-1-	-2-3-3-1-	-1-3-	-	-	-	0.24
35-	35.6089-	108.7261-2-08-				0-N08379-09/22/77- 8-	14-18.3-C-	-	8.2-	950-	9-1-2-	-	- - -1-	-3-2-2-1-	-9-1-	8-	-	-	0.20
35-	35.5333-	108.7085-2-08-				0-N08385-09/22/77-18-	17-16.0-	-	7.2-	1450-	11-1-2-	-	- -3-1-	-4-3-2-4-	-1-3-	8-300-	175-	1.48
35-	35.6522-	108.5775-2-08-				0-N08398-09/20/77-13-	25-15.3-C-	-	7.4-	520-	5-1-1-	-	- - -1-	-2-3-2-1-	-1-7-48-	8-	7-	0.89
35-	35.6267-	108.4953-2-08-				0-N08402-09/20/77-16-	24-13.1-C-	-	6.8-	195-	12-1-1-	-	- - -1-	-3-3-2-1-	-1-7-48-	-	10-	0.22
35-	35.6133-	108.5164-2-08-				0-N08403-09/20/77-15-	24-19.4-C-	-	7.1-	2125-	8-1-1-	-	- - - -	-4-2-3-1-	-1-1-	8-	-	-	0.18
35-	35.6192-	108.6222-2-08-				0-N08407-09/20/77-12-	25-17.8-C-	-	8.5-	1775-	12-1-4-	-	- - -1-	-7-2-3-1-	-1-1-	8-900-	600-	0.64
35-	35.5925-	108.5975-2-08-				0-N08408-09/20/77-11-	23-16.2-C-	-	7.1-	2150-	4-1-4-	-	- - - -	-7-3-2-1-	-1-1-	4-900-	600-	2.40
35-	35.5639-	108.5839-2-08-				0-N08410-09/20/77-11-	23-16.2-C-	-	7.2-	280-	10-1-4-	-	- - - -	- - -3-1-	-8-	-	6-	-	-	1.24
35-	35.5825-	108.5769-2-08-				0-N08411-09/20/77-11-	23-20.0-C-	-	7.1-	440-	8-1-4-	-	- - -1-	-3-3-3-1-	-1-4-	6-609-	-	2.62
35-	35.5400-	108.5961-2-08-				0-N08413-09/20/77-10-	25-18.9-C-	-	7.4-	1250-	34-1-4-	-	- - -3-	-4-3-3-1-	-1-3-	-	-	-	1.32
35-	35.6275-	108.4025-2-08-				0-N08415-09/20/77-18-	22-22.1-C-	-	7.1-	500-	11-1-1-	-	- - -1-	-4-3-3-1-	-9-	-	8-	-	-	0.44

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
35-35.5144-108.4519-2-08-						0-N08422-09/21/77-12-			24-19.0-C-	-	-		7.1-	1150-	9-1-4-	-	-	-	-2-	-4-	-3-	-2-	-1-	-9-	-	-	-	-	-				1.32
35-35.5303-108.4494-2-08-						0-N08425-09/21/77-13-			25-15.9-	-	-		7.4-	550-	6-1-4-	-	-	-	-1-	-4-	-3-	-3-	-1-	-1-7-72-			-	6-					4.95
35-35.5522-108.4442-2-08-						0-N08426-09/21/77-13-			24-16.9-C-	-	-		7.6-	1200-	9-1-4-	-	-	-	-2-	-4-	-3-	-4-	-1-	-1-7-60-		5-	4-						5.62
35-35.5858-108.4172-2-08-						0-N08431-09/20/77-19-			18-13.1-C-	-	-		7.1-	550-	13-1-1-	-	-	-	-1-	-1-	-3-	-3-	-1-	-9-1-	4-	-	-						0.63
35-35.5772-108.3239-2-08-						0-N08446-09/22/77-13-			21-16.8-C-	-	-		8.8-	850-	8-1-1-	-	-	-	-	-4-	-3-	-3-	-1-	-	-4-	8-	-	-						5.26
35-35.5567-108.3389-2-08-						0-N08447-09/21/77-19-			18-11.2-	-	-		6.5-	550-	10-1-4-	-	-	-	-1-	-1-	-3-	-2-	-1-	-1-4-	6-	10-	-						2.07
35-35.5678-108.3211-2-06-						0-N08448-09/21/77-18-			20-14.8-	-	-		7.1-	700-	5-1-1-5-	6-	-3-	-	-1-	-3-	-3-	-1-	-1-	-	-	-	-						4.98
35-35.6183-108.3131-2-08-						0-N08451-09/21/77-17-			24-17.0-C-	-	-		8.6-	1450-	18-1-1-	-	-	-	-2-	-4-	-3-	-2-	-1-	-9-1-	8-	-	-						0.54
35-35.5900-108.3589-2-08-						0-N08452-09/21/77-16-			25-	-	-		7.3-	1100-	10-1-1-	-	-	-	-	-4-	-4-	-2-	-1-	-1-7-48-		16-	14-						6.51
35-35.5961-108.3667-2-08-						0-N08454-09/20/77-14-			25-13.0-C-	-	-		6.7-	2900-	8-1-1-	-	-	-	-1-	-4-	-4-	-2-	-1-	-1-	-	-	-	10-						3.21
35-35.5233-108.1386-2-08-						0-N08464-09/22/77-18-			18-	8.2-C-	-		6.9-	21000-	17-1-2-	-	-	-	-2-	-3-	-3-	-2-	-1-	-9-3-	6-	50-	-						14.39*
35-35.5086-108.0522-2-08-						0-N08472-09/29/77-19-			19-12.6-C-	-	-		7.1-	1850-	11-1-1-	-	-	-	-1-	-4-	-3-	-2-	-1-	-1-7-48-		6-	4-						7.79
35-35.5367-108.0342-2-08-						0-N08476-09/24/77-18-			20-15.0-C-	-	-		8.6-	850-	9-1-1-	-	-	-	-1-	-4-	-3-	-2-	-1-	-9-3-	6-	-	-						0.52
35-35.6044-108.0206-2-06-						0-N08478-09/24/77-17-			24-14.8-	-	-		7.2-	3900-	10-1-1-4-	6-	-3-1-		-3-3-3-2-		-1-	-	-	-	-									0.44
35-35.6092-108.0764-2-06-						0-N08480-09/24/77-15-			26-24.3-C-	-	-		7.9-	350-	8-1-1-4-	1-	2-3-1-		-1-3-3-2-		-9-	-	-	-	-									1.56
35-35.7089-108.0106-2-08-						0-N08486-09/24/77-18-			21-15.0-C-	-	-		7.7-	1780-	115-1-1-	-	-2-3-1-		-4-4-2-2-		-1-	-	-	-	-									0.23
35-35.7400-108.0567-2-08-						0-N08487-09/24/77-18-			21-15.5-C-	-	-		7.7-	335-	127-1-1-	-	-3-3-1-		-4-5-2-2-		-1-	-	-	-	-									1.45
35-35.7386-108.0942-2-08-						C-N08489-09/24/77-14-			23-15.8-	-	-		8.6-	2860-	46-1-1-	-	-4-4-1-		-4-3-3-2-		-1-1-	6-	-	-	-									2.38
35-35.6514-108.0331-2-08-						0-N08494-09/24/77-12-			21-15.2-C-	-	-		8.5-	880-	104-1-1-	-	-3-3-1-		-4-3-3-3-		-1-1-	6-	-	-	-									0.28
35-35.6797-108.1111-2-08-						0-N08497-09/24/77-11-			20-16.4-	-	-		8.3-	1330-	127-1-1-	-	-2-2-1-		-4-2-2-3-		-1-1-	-	-	-	-									1.47
35-35.8175-108.2200-2-08-						0-N08500-09/23/77-18-			22-15.5-C-	-	-		7.0-	2280-	127-1-1-	-	-3-3-1-		-3-3-2-1-		-1-4-	6-	-	-	-									19.96
35-35.7117-108.2072-2-08-						0-N08506-09/23/77-	8-		16-13.0-C-	-	-		6.7-	1600-	92-1-1-	-	-3-3-1-		-2-2-2-2-		-9-3-	-	-	-	-									0.17
35-35.6808-108.1517-2-08-						0-N08509-09/23/77-	7-		17-17.0-	-	-		8.2-	480-	115-1-1-	-	-4-3-1-		-3-2-1-2-		-1-6-	10-	350-	200-										0.20
35-35.7914-108.2614-2-08-						0-N08510-09/24/77-	7-		13-21.5-C-	-	-		8.3-	1470-	104-1-1-	-	-4-4-2-		-3-4-2-2-		-1-3-	8-	-	-	-									1.85
35-35.8314-108.2658-2-08-						0-N08512-09/24/77-	8-		15-21.5-C-	-	-		8.1-	630-	69-1-1-	-	-4-3-1-		-3-2-3-3-		-1-5-	8-	-	-	-									0.22
35-35.8142-108.1650-2-08-						0-N08514-09/23/77-17-			23-17.5-C-	-	-		8.3-	2860-	115-1-1-	-	-3-3-1-		-3-2-2-1-		-1-1-	6-	-	-	-									0.76
35-35.7761-108.1914-2-08-						0-N08519-09/23/77-14-			19-14.5-C-	-	-		8.8-	2120-	23-1-1-	-	-3-3-1-		-4-2-2-1-		-1-5-	6-	-	-	-									0.47
35-35.7847-108.1542-2-08-						0-N08521-09/23/77-12-			19-15.0-	-	-		7.7-	870-	150-1-1-	-	-3-3-1-		-4-3-3-1-		-1-4-	4-	-	-	-									5.67
35-35.7503-108.1444-2-08-						0-N08522-09/23/77-11-			20-15.0-	-	-		8.7-	1820-	57-1-1-	-	-3-4-1-		-4-3-2-1-		-1-1-	4-	-	-	-									1.21
35-35.8461-108.2347-2-08-						0-N08526-09/22/77-15-			18-15.0-C-	-	-		9.1-	5900-	115-1-1-	-	-3-3-2-		-4-3-2-4-		-9-	-	-	-	-									1.38
35-35.8711-108.1644-2-08-						0-N08528-09/22/77-14-			24-16.2-	-	-		8.5-	3400-	104-1-1-	-	-3-4-1-		-3-2-3-2-		-1-1-	6-	-	-	-									1.18
35-35.7531-108.0569-2-08-						0-N08529-09/24/77-18-			21-20.8-C-	-	-		8.5-	1750-	-1-1-	-	-4-4-1-		-4-3-3-2-		-1-	-	6-	-	-									1.32
35-35.8008-108.0775-2-08-						0-N08532-09/24/77-17-			21-15.0-C-	-	-		8.9-	1320-	139-1-1-	-	-5-3-1-		-4-3-2-2-		-	-	5-	-	-									0.53
35-35.8236-108.0494-2-08-						0-N08536-09/24/77-15-			22-17.4-	-	-		8.8-	2900-	92-1-1-	-	-1-4-1-		-4-2-3-2-		-1-1-	6-	-	-	-									1.68
35-35.7908-108.0122-2-08-						0-N08538-09/24/77-15-			21-15.8-C-	-	-		8.5-	2850-	115-1-1-	-	-4-4-1-		-3-3-2-2-		-1-2-	6-	-	-	-									1.10
35-35.8431-108.1097-2-08-						0-N08543-09/22/77-16-			18-15.5-C-	-	-		8.9-	3620-	162-1-1-	-	-3-4-1-		-3-2-3-3-		-1-1-	6-	-	-	-									0.48*
35-35.8775-108.1175-2-08-						0-N08546-09/19/77-13-			30-17.9-	-	-		8.1-	2900-	13-1-6-	-	-	-	-2-	-4-	-2-3-2-		-1-	-	-	-	-									1.45
35-35.9156-108.1172-2-08-						0-N08548-09/19/77-10-			24-15.9-C-	-	-		8.3-	3000-	12-1-6-	-	-	-	-2-	-4-	-2-3-1-		-1-	-	2-	-	-									2.92
35-35.9292-108.0739-2-08-						0-N08552-09/18/77-19-			22-18.1-C-	-	-		8.6-	2100-	10-1-1-	-	-	-	-1-	-3-	-3-3-1-		-1-1-	8-	-	-	-									1.10
35-35.8764-108.0106-2-08-						0-N08553-09/18/77-18-			26-16.9-C-	-	-		8.4-	1850-	9-1-6-	-	-	-	-	-3-	-2-3-1-		-1-1-	6-	-	-	-									0.90
35-35.9881-108.0525-2-08-						0-N08559-09/18/77-16-			27-16.9-C-	-	-		8.3-	2875-	15-1-6-	-	-	-	-1-	-3-	-3-2-1-		-1-1-	4-	-	-	-									0.54
35-35.9731-108.1094-2-08-						0-N08560-09/18/77-15-			26-17.3-C-	-	-		8.5-	2050-	16-1-6-	-	-	-	-6-	-4-	-2-2-1-		-1-1-	6-	-	-	-									1.19
35-35.9644-108.1472-2-08-						0-N08566-09/19/77-15-			27-19.7-C-	-	-		8.3-	2875-	10-1-6-	-	-3-3-1-		-4-2-3-1-		-1-	-	2-	-	-									1.14
35-35.9936-108.2386-2-08-						0-N08567-09/18/77-14-			27-18.0-	-	-		8.6-	1550-	5-1-6-	-	-	-	-2-	-3-	-2-2-1-		-1-1-	6-	-	-	-									0.36
35-35.9622-108.2453-2-08-						0-N08569-09/18/77-13-			25-21.5-C-	-	-		8.5-	1900-	12-1-6-	-	-	-	-1-	-4-	-2-2-1-		-1-1-	5-	-	-	-									0.38
35-35.9378-108.2269-2-08-						0-N08572-09/18/77-12-			26-14.3-C-	-	-		8.3-	2530-	12-1-6-	-	-	-	-1-	-3-	-3-2-1-		-1-1-	8-	-	-	-									0.19
35-35.9483-108.1983-2-08-						0-N08573-09/18/77-12-			24-12.7-C-	-	-		8.5-	2420-	13-1-6-	-	-	-	-1-	-3-	-3-3-1-		-1-	-	-	-	-									1.19
35-35.9911-108.1811-2-08-						0-N08575-09/18/77-11-			21-22.4-C-	-	-		8.6-	1900-	5-1-1-	-	-	-	-1-	-3-	-3-3-1-		-1-1-	6-	-	-	-									1.24
35-35.7681-108.2031-2-08-						0-N08577-09/23/77-14-			22-14.0-C-	-	-		8.9-	2120-	179-1-1-	-	-3-3-1-		-4-2-3-1-		-1-5-	6-	-	-	-									1.91
35-35.8336-108.1561-2-08-						0-N08578-09/22/77-13-			25-39.0-C-	-	-		8.1-	1000-	104-1-1-	-	-5-4-1-		-3-1-2-2-		-1-	-	-	-	-									0.26
04-35.0953-109.3131-2-08-						0-N08603-08/30/78-10-			29-17.0-C-	-	-		6.4-	220-	20-1-6-	-	-1-3-1-		-3-2-2-1-		-9-1-	-	-	-	-									0.51

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
04-35.0647-109.2647-2-08-						0-N08604-08/30/78-11-			30-16.0-C-		-		6.9-	270-	7-1-6-	-	-	-1-3-2-	-3-2-2-1-	-9-	-	-	-	-									1.28
04-35.0036-109.2761-2-08-						0-N08606-08/30/78-13-			31-16.0-C-		-		7.1-	310-	9-1-6-	-	-	-2-2-1-	-3-2-2-1-	-9-	-	-	-	-									1.80
04-35.1394-109.2333-2-08-						0-N08607-08/30/78-15-			32-17.0-C-		-		6.8-	180-	9-1-6-	-	-	-1-3-2-	-3-2-2-1-	-9-	-	-	-	-									0.53
04-35.2258-109.3408-2-08-						0-N08608-08/30/78-14-			31-18.0-	-	-		6.7-	610-	4-1-6-4-6-2-2-3-				-3-2-2-1-	-7-	-	-	-	-									2.74
04-35.2128-109.2858-2-08-						0-N08611-08/30/78-16-			30-14.0-C-		-		6.8-	400-	7-1-6-	-	-	-3-3-1-	-3-2-2-1-	-9-1-	-	-	-	-									1.84
04-35.1983-109.2569-2-08-						0-N08613-08/30/78-17-			30-15.0-C-		-		6.7-	390-	9-1-6-	-	-	-2-3-1-	-3-2-2-1-	-9-1-	-	-	-	-									0.09
04-35.2333-109.2836-2-08-						0-N08615-08/30/78-17-			30-17.0-C-		-		6.7-	900-	6-1-6-	-	-	-2-3-1-	-3-2-2-1-	-1-	-	-	-	-									2.76
04-35.3567-109.0600-2-08-						0-N08618-08/31/78-10-			29-20.0-C-		-		6.9-	540-	9-1-6-	-	-	-3-	-	-3-2-2-1-	-1-8-	-	-	-									7.11
04-35.3639-109.0164-2-08-						0-N08620-08/31/78-11-			30-15.0-C-		-		7.0-	610-	7-1-6-	-	-	-2-2-1-	-3-2-2-1-	-1-	-	-	-	-									2.94
04-35.3167-109.0547-2-08-						0-N08623-08/31/78-14-			32-17.0-C-		-		7.0-	1000-	6-1-6-	-	-	-2-3-1-	-3-2-3-1-	-9-	-	-	-	-									60.47*
04-35.2786-109.0728-2-08-						0-N08628-08/31/78-16-			31-17.0-C-		-		6.8-	500-	9-1-6-	-	-	-3-1-	-3-2-3-1-	-9-	-	-	-	-									2.36
04-35.2661-109.1192-2-08-						0-N08629-08/31/78-17-			31-20.0-C-		-		6.9-	500-	7-1-6-	-	-	-3-1-	-3-2-3-1-	-9-	-	-	-	-									0.72
04-35.2664-109.0236-2-08-						0-N08630-08/31/78-17-		-		-C-	-		6.7-	620-	3-1-6-	-	-	-3-	-3-2-3-1-	-9-	-	-	-	-									1.10
04-35.2528-109.0025-2-08-						0-N08631-09/01/78-10-			29-19.0-C-		-		6.8-	500-	7-1-6-	-	-	-2-3-1-	-3-2-3-1-	-9-1-	-	-	-	-									6.44
04-35.2492-109.1050-2-08-						0-N08632-09/01/78- 9-			28-16.0-C-		-		6.9-	500-	9-1-6-	-	-	-2-3-1-	-3-2-3-1-	-9-	-	-	-	-									1.55
04-35.2389-109.0261-2-06-						0-N08637-09/01/78-12-			31-18.0-C-		-		7.0-	750-	6-1-6-4-6-2-2-4-				-7-2-3-1-	-9-	-	-	-	-									22.19
04-35.1811-109.0172-2-06-						0-N08639-09/01/78-15-			31-19.0-C-		-		6.9-	550-	6-1-6-	-	-	-3-2-1-	-2-2-3-1-	-9-	-	-	-	-									2.72
04-35.1978-109.2167-2-08-						0-N08640-09/02/78-10-			28-16.0-C-		-		6.8-	280-	12-1-6-	-	-	-2-3-1-	-3-2-2-1-	-9-1-	-	-	-	-									0.16
04-35.4931-109.0308-2-06-						0-N08650-09/01/78-17-		-		-C-	-		7.7-	640-	11-1-6-5-6-2-3-1-				-3-4-4-3-	-9-	-	-	-	-									4.76
04-35.5328-109.0069-2-08-						0-N08651-09/02/78-13-			30-16.3-C-		-		7.5-	1230-	14-1-6-	-	-	-3-3-	-3-3-3-2-	-3-4-	4-	8-	8-									0.27
04-35.5717-109.0625-2-08-						0-N08652-09/02/78-14-			31-15.8-C-		-		7.7-	615-	14-1-6-	-	-	-3-1-	-1-3-3-2-	-1-4-	4-	8-	8-									1.60
04-35.5483-109.0103-2-08-						0-N08654-09/02/78-14-			30-	-	-		7.8-	530-	10-1-6-	-	-	-3-3-	-3-3-2-3-	-1-4-	4-	8-	8-									1.61
04-35.5533-109.0017-2-08-						0-N08656-09/02/78-15-			29-18.2-	-	-		7.9-	740-	11-1-6-	-	-	-3-	-3-3-3-3-	-1-1-	4-	8-	8-									0.18
04-35.6061-109.0556-2-08-						0-N08658-09/02/78-17-			30-	-C-	-		7.8-	760-	9-1-6-	-	-	-3-	-3-3-2-3-	-9-1-	4-	8-	8-									0.70
04-35.6094-109.0094-2-08-						0-N08660-09/07/78-14-			31-12.3-C-		-		8.6-	600-	14-1-6-	-	-	-1-	-3-2-2-2-	-9-	-	-	-									1.71
04-35.5772-109.0978-2-08-						0-N08662-09/07/78-15-			30-	-C-	-		8.2-	1150-	8-1-4-	-	-	-1-	-1-3-4-2-	-9-	-	-	-									1.05
04-35.5578-109.0967-2-08-						0-N08663-09/07/78-15-			30-	-C-	-		8.0-	1430-	13-1-4-	-	-	-1-	-1-3-4-2-	-1-1-	4-	8-	8-									0.10
04-35.5433-109.0897-2-08-						0-N08664-09/07/78-16-			30-15.3-C-		-		8.1-	1105-	13-1-4-	-	-	-1-	-2-2-3-2-	-9-4-	4-	8-	8-									2.97
04-35.5269-109.0883-2-08-						0-N08665-09/07/78-16-			30-16.1-	-	-		8.6-	300-	9-1-4-	-	-	-1-	-3-3-3-2-	-1-4-	4-	8-	8-									0.60
04-35.4619-109.1172-2-08-						0-N08667-09/07/78-17-			30-18.2-	-	-		7.6-	2600-	16-1-4-	-	-	-1-	-3-2-3-2-	-3-1-	4-	8-	8-									1.32
04-35.0056-109.0844-2-08-						0-N08676-09/08/78-14-			31-22.5-C-		-		8.7-	320-	7-1-6-	-	-	-3-	-3-3-2-2-	-9-1-	4-	8-	500-									0.21
04-35.0642-109.1450-2-08-						0-N08678-09/08/78-17-			30-	-C-	-		8.4-	280-	8-1-6-	-	-	-1-	-3-3-3-2-	-9-4-	4-	8-	8-									0.45
04-35.0225-109.0272-2-08-						0-N08680-09/08/78-19-			29-23.3-	-	-		8.1-	340-	8-1-6-	-	-	-1-	-3-3-2-2-	-1-	-	-	-									1.09
04-35.1739-109.9672-2-08-						0-N08681-09/13/78-11-			23-16.1-C-		-		8.9-	900-	6-1-6-	-	-	-1-	-3-2-3-1-	-9-4-	4-	-	-									18.90
04-35.2442-109.1511-2-08-						0-N08684-09/02/78-12-			30-	-C-	-		6.7-	340-	9-1-6-	-	-	-1-3-2-	-3-2-2-1-	-9-1-	-	-	-									3.44
04-35.1761-109.2042-2-08-						0-N08685-09/02/78-13-			31-17.0-C-		-		6.8-	240-	11-1-6-	-	-	-2-3-1-	-3-2-2-1-	-9-1-	-	-	-									2.76
04-35.2772-109.1522-2-08-						0-N08691-09/03/78-10-			29-20.0-C-		-		7.1-	700-	12-1-6-	-	-	-3-1-	-3-2-2-1-	-9-1-	-	-	-									0.19
04-35.2619-109.2294-2-08-						0-N08693-09/03/78-10-			29-18.0-	-	-		6.9-	700-	9-1-6-	-	-	-3-3-1-	-3-2-2-1-	-1-	-	-	-									3.08
04-35.3486-109.1731-2-08-						0-N08697-09/02/78-14-			31-19.0-C-		-		6.8-	1600-	9-1-6-	-	-	-2-3-1-	-3-2-3-1-	-1-	-	-	-									3.85
04-35.2972-109.2183-2-08-						0-N08707-09/03/78-18-			28-18.0-	-	-		6.8-	750-	9-1-6-	-	-	-2-3-1-	-1-2-3-1-	-1-1-	-	-	-									2.15
04-35.3089-109.2292-2-08-						0-N08708-09/03/78-18-			28-18.0-C-		-		6.7-	300-	9-1-6-	-	-	-2-3-1-	-1-2-3-1-	-1-4-	-	-	-									0.75
04-35.2856-109.2597-2-06-						0-N08709-09/03/78-19-			27-19.0-C-		-		6.9-	670-	9-1-6-4-6-2-2-2-				-1-2-3-1-	-9-	-	-	-										3.60
04-35.2772-109.3019-2-08-						0-N08711-09/09/78-10-			27-18.0-C-		-		6.9-	900-	9-1-6-	-	-	-2-3-1-	-3-2-2-1-	-9-	-	-	-									1.75
04-35.3164-109.3097-2-08-						0-N08716-09/04/78-12-			29-17.0-C-		-		6.8-	950-	6-1-6-	-	-	-2-3-1-	-3-2-2-1-	-9-4-	-	-	-									2.04
04-35.4139-109.2831-2-08-						0-N08719-09/09/78-13-			30-19.0-C-		-		6.9-	400-	9-1-6-	-	-	-2-3-1-	-3-2-2-1-	-9-	-	-	-									0.18
04-35.4083-109.2619-2-08-						0-N08721-09/04/78-14-			31-16.0-C-		-		6.7-	190-	4-1-6-	-	-	-2-3-1-	-3-2-3-1-	-4-	-	-	-									0.39
04-35.3806-109.3508-2-08-						0-N08725-09/04/78-16-			30-16.0-C-		-		6.7-	250-	9-1-6-	-	-	-2-3-1-	-1-2-3-1-	-9-	-	-	-									0.65
04-35.3792-109.3222-2-08-						0-N08728-09/04/78-17-			30-17.0-C-		-		7.1-	1100-	6-1-6-	-	-	-2-3-1-	-3-2-3-1-	-9-	-	-	-									7.77
04-35.2597-109.3636-2-08-						0-N08733-09/04/78-19-			26-	-C-	-		6.9-	2100-	7-1-6-	-	-	-2-3-1-	-3-2-2-1-	-9-1-	-	-	-									1.28
04-35.4411-109.1208-2-08-						0-N08736-08/08/78-10-			28-18.0-C-		-		6.9-	2100-	4-1-6-	-	-	-2-2-1-	-3-2-2-1-	-9-1-	-	-	-									2.24
04-35.4756-109.1317-2-08-						0-N08740-09/08/78-11-			29-19.0-C-		-		6.7-	670-	14-1-6-	-	-	-3-3-1-	-3-2-3-1-	-1-4-	-999-	-										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 (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
04-35.4556-109.1289-2-08-						0-N08741-09/08/78-12-	29-	18.0-C-	-	6.8-	550-		6-1-6-	-	-3-3-1-	-3-2-3-1-	-9-	-	-	-	0.77
04-35.4600-109.1483-2-08-						0-N08742-09/08/78-12-	29-	20.0-C-	-	6.8-	970-		9-1-6-4-6-	2-2-2-	-2-2-3-1-	-9-	-	-	-	0.86
04-35.4775-109.2122-2-06-						0-N08745-09/08/78-15-	30-	18.0-C-	-	6.9-	370-		9-1-6-	-	-2-3-1-	-1-3-3-1-	-1-	-	-	-	1.03
04-35.4811-109.2286-2-08-						0-N08747-09/08/78-16-	29-	-C-	-	6.7-	310-		6-1-6-	-	-2-3-1-	-3-2-2-1-	-9-	-	-	-	0.43
04-35.4589-109.2861-2-08-						0-N08748-09/08/78-17-	29-	-C-	-	6.8-	600-		6-1-6-	-	- -2-3-	-1-2-2-1-	-9-7-	-	-	-	0.62
04-35.5003-109.3025-2-08-						0-N08750-09/08/78-18-	27-	20.0-C-	-	-	-		12-1-6-	-	-2-3-1-	-1-2-2-1-	-9-7-	-	-	-	1.38
04-35.4044-109.2400-2-08-						0-N08755-09/08/78-20-	25-	18.0-	-	6.9-	300-		6-1-6-	-	-2-3-1-	-3-2-3-1-	-1-1-	-	-	-	0.61
04-35.1019-109.1453-2-08-						0-N08762-09/09/78-12-	28-	19.0-C-	-	6.9-	220-		7-1-6-	-	-2-3-1-	-3-2-3-1-	-9-1-	-	-	-	0.23
04-35.1494-109.1092-2-08-						0-N08764-09/09/78-13-	28-	19.0-C-	-	6.9-	220-		9-1-6-	-	-2-3-2-	-3-2-3-1-	-9-	-	-	-	0.31
04-35.1861-109.0942-2-08-						0-N08766-09/09/78-14-	24-	20.0-C-	-	6.7-	240-		9-1-6-	-	-2-3-1-	-3-2-2-1-	-9-1-	-	-	-	0.90
04-35.0897-109.1064-2-08-						0-N08768-09/09/78-15-	30-	20.0-C-	-	6.7-	240-		9-1-6-	-	-2-3-1-	-3-2-3-1-	-9-1-	-	-	-	0.54
04-35.1067-109.0708-2-08-						0-N08769-09/09/78-16-	29-	20.0-C-	-	6.8-	270-		7-1-6-	-	-2-3-1-	-2-2-3-1-	-9-1-	-	-	-	0.39
04-35.0850-109.2294-2-08-						0-N08771-09/09/78-17-	29-	19.0-C-	-	7.1-	260-		9-1-6-	-	-2-3-1-	-3-2-3-1-	-9-1-	-	-	-	0.63
04-35.1992-109.4375-2-08-						0-N08776-09/10/78-10-	27-	19.0-C-	-	7.1-	730-		4-1-6-	-	-2-3-1-	-3-2-2-1-	-7-3-	-186-	-	1.65
04-35.3078-109.4083-2-08-						0-N08787-09/10/78-14-	28-	18.0-C-	-	-	-		9-1-6-	-	-2-3-1-	-3-2-2-2-	-9-1-	-	-	-	0.26
04-35.4106-109.4961-2-06-						0-N08800-09/11/78-11-	28-	20.0-C-	-	7.0-	370-		6-1-6-	-	-2-3-1-	-1-2-3-1-	-4-	-	-	-	1.31
04-35.4311-109.4011-2-08-						0-N08806-09/11/78-13-	28-	19.0-C-	-	6.8-	190-		4-1-6-	-	-2-3-1-	-1-2-3-1-	-9-	-	-	-	0.66
04-35.4714-109.4611-2-06-						0-N08811-09/11/78-16-	28-	18.0-C-	-	6.7-	600-		20-1-6-	-	-2-3-1-	-1-2-3-1-	-9-	-	-	-	25.16
04-35.4425-109.4914-2-06-						0-N08814-09/11/78-18-	26-	19.0-C-	-	6.7-	370-		12-1-6-	-	-2-3-1-	-3-2-3-1-	-9-	-	-	-	4.17
04-35.4633-109.4875-2-06-						0-N08815-09/11/78-16-	27-	19.0-C-	-	6.9-	520-		12-1-6-	-	-2-3-1-	-1-2-3-1-	-9-	-	-	-	14.58
04-35.4183-109.5044-2-08-						0-N08816-09/11/78-18-	28-	19.0-C-	-	6.7-	400-		6-1-6-	-	-2-3-1-	-3-2-3-1-	-9-	-	-	-	8.08
04-35.5836-109.6403-2-08-						0-N08817-09/13/78-14-	28-	18.0-C-	-	6.8-	250-		9-1-6-	-	-2-3-1-	-3-2-3-1-	-9-1-	-	-	-	0.23
04-35.6044-109.6572-2-08-						0-N08818-09/13/78-14-	28-	20.0-C-	-	6.9-	700-		7-1-6-	-	-2-3-1-	-3-2-2-1-	-9-7-	-	-	-	6.20
04-35.5017-109.5261-2-08-						0-N08823-09/13/78- 9-	25-	18.0-C-	-	7.2-	380-		9-1-6-	-	-2-3-1-	-3-2-2-1-	-7-8-	-	-	-	0.65
04-35.5317-109.5139-2-08-						0-N08827-09/13/78-10-	27-	17.0-C-	-	7.0-	1600-		11-1-6-	-	-2-3-1-	-3-2-2-1-	-9-	-	-	-	2.19
04-35.6053-109.5456-2-06-						0-N08831-09/13/78-12-	27-	17.0-C-	-	6.7-	350-		23-1-6-	-	-2-3-1-	-3-2-2-1-	-9-	-	-	-	0.77
04-35.6211-109.5403-2-08-						0-N08833-09/13/78-12-	28-	17.0-C-	-	7.0-	400-		9-1-6-	-	-2-3-1-	-3-2-3-1-	-9-1-	-	-	-	1.10
04-35.6136-109.5817-2-08-						0-N08836-09/13/78-13-	28-	17.0-C-	-	6.7-	310-		9-1-6-	-	-2-3-1-	-3-2-2-1-	-9-4-	-	-	-	0.68
04-35.2247-109.8806-2-08-						0-N08841-09/13/78-13-	30-	18.2-C-	-	8.8-	1320-		11-1-4-	-	- - -1-	-3-3-3-1-	-9-1-	-	-	-	1.53
04-35.4994-109.5297-2-08-						0-N08853-09/14/78-15-	30-	18.2-C-	-	7.4-	800-		7-1-4-	-	- - -1-	-1-3-2-2-	-9-4-	-	-	-	0.73
04-35.4047-109.6200-2-08-						0-N08858-09/14/78-17-	30-	21.3-C-	-	7.8-	380-		9-1-6-	-	- - -1-	-3-3-3-2-	-9-	-	-	-	2.64
04-35.3742-109.6089-2-08-						0-N08860-09/14/78-18-	30-	18.2-C-	-	7.9-	420-		5-1-6-	-	- - -1-	-3-3-3-2-	-9-4-	-	-	-	2.91
04-35.3683-109.5311-2-08-						0-N08867-09/15/78-16-	30-	22.3-C-	-	7.7-	550-		8-1-6-	-	- - -1-	-3-3-3-2-	-9-1-	-	-	-	1.88
04-35.6042-109.7431-2-08-						0-N08869-09/13/78-16-	28-	17.0-C-	-	7.1-	200-		4-1-6-	-	-2-3-1-	-3-2-3-1-	-9-1-	-	-	-	0.11
04-35.6183-109.7164-2-08-						0-N08871-09/13/78-16-	27-	18.0-C-	-	7.1-	150-		6-1-6-	-	-2-3-1-	-3-2-2-1-	-9-	-	-	-	34.91*
04-35.5214-109.7294-2-08-						0-N08873-09/13/78-17-	26-	-C-	-	6.9-	600-		9-1-6-	-	-2-3-1-	-3-2-3-1-	-9-1-	-	-	-	5.12
04-35.5189-109.3122-2-08-						0-N08881-09/14/78-11-	27-	19.0-C-	-	7.1-	370-		11-1-6-	-	-2-3-1-	-3-2-2-1-	-9-1-	-	-	-	0.56
04-35.5856-109.3586-2-08-						0-N08885-09/14/78-13-	28-	17.0-C-	-	7.0-	250-		1-1-6-	-	-2-3-1-	-3-2-3-1-	-9-4-	-	-	-	0.74
04-35.5933-109.4036-2-08-						0-N08886-09/14/78-14-	28-	-C-	-	6.9-	-		11-1-6-	-	-2-3-1-	-3-2-2-1-	-4-1-	-	-	-	2.11
04-35.6214-109.4033-2-08-						0-N08888-09/14/78-16-	27-	18.0-C-	-	7.0-	310-		6-1-6-	-	-2-3-1-	-3-2-3-1-	-9-	-	-	-	2.08
04-35.6047-109.4550-2-08-						0-N08891-09/14/78-16-	27-	18.0-C-	-	7.0-	310-		6-1-6-	-	-2-3-1-	-3-2-3-1-	-9-4-	-	-	-	1.08
04-35.6211-109.4942-2-08-						0-N08892-09/14/78-17-	26-	18.0-C-	-	7.1-	350-		3-1-6-	-	-2-3-1-	-3-2-2-1-	-9-1-	-	-	-	0.21
04-35.5411-109.2850-2-08-						0-N08897-09/15/78-10-	25-	20.0-C-	-	7.0-	330-		15-1-6-	-	-1-3-1-	-1-2-2-1-	-9-7-	-	-	-	0.15
04-35.5242-109.2492-2-08-						0-N08901-09/15/78-11-	26-	18.0-C-	-	6.9-	350-		6-1-6-	-	-2-3-1-	-3-2-2-1-	-9-1-	-	-	-	0.51
04-35.5375-109.1983-2-08-						0-N08904-09/19/78-12-	26-	18.0-C-	-	6.9-	290-		15-1-6-	-	-2-3-1-	-3-2-2-1-	-9-	-	-	-	0.33
04-35.5217-109.1758-2-08-						0-N08907-09/15/78-14-	27-	19.0-C-	-	6.9-	320-		6-1-6-	-	-2-3-1-	-2-3-2-1-	-9-	-	-	-	0.51
04-35.5511-109.1717-2-08-						0-N08908-09/15/78-14-	27-	20.0-	-	7.1-	470-		6-1-6-	-	-1-2-1-	-3-2-2-1-	-1-7-	-	-	-	1.69
04-35.5775-109.1508-2-08-						0-N08911-09/15/78-15-	28-	18.0-C-	-	7.0-	400-		11-1-6-	-	-2-3-1-	-3-2-2-1-	-9-	-	-	-	0.74
04-35.6067-109.2156-2-08-						0-N08914-09/15/78-16-	26-	18.0-C-	-	7.0-	360-		7-1-6-	-	-2-3-1-	-2-3-2-1-	-9-4-	-	-	-	1.45
04-35.7294-109.5067-2-08-						0-N08917-09/17/78-10-	25-	18.0-C-	-	7.1-	650-		7-1-6-	-	-2-3-1-	-3-2-3-1-	-7-2-	-	-	-	0.41
04-35.7486-109.5128-2-08-						0-N08918-09/17/78-10-	26-	18.0-C-	-	7.0-	620-		7-1-6-	-	-2-3-1-	-3-2-2-1-	-9-	-	-	-	8.62

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
04-35.7081-109.5828-2-08-						0-N08920-09/17/78-11-	26-	19.0	-C-	-			7.1-	600-	11-1-6-	-	-2-	3-	1-	-3-	2-	2-	1-	-9-	1-	-	-	-	2.89				
04-35.6856-109.6139-2-08-						0-N08923-09/17/78-12-	26-	19.0	-C-	-			7.0-	2100-	7-1-6-	-	-2-	3-	1-	-3-	2-	2-	1-	-9-	-	-	-	-	76.96*				
04-35.6839-109.6469-2-08-						0-N08925-09/17/78-13-	26-	19.0	-C-	-			7.1-	2100-	6-1-6-	-	-2-	3-	1-	-3-	2-	2-	1-	-9-	-	-	-	-	20.63				
04-35.6831-109.6425-2-08-						0-N08926-09/17/78-13-	26-	19.0	-C-	-			7.0-	550-	15-1-6-	-	-1-	2-	1-	-3-	2-	2-	1-	-9-	7-	-	-	-	0.50				
04-35.6969-109.6564-2-08-						0-N08927-09/17/78-14-	26-	18.0	-C-	-			7.2-	2600-	12-1-6-	-	-2-	3-	1-	-3-	2-	2-	1-	-9-	1-	-	-	-	27.33*				
04-35.6767-109.6781-2-08-						0-N08928-09/17/78-14-	27-	18.0	-C-	-			7.2-	4900-	11-1-6-	-	-2-	3-	1-	-3-	2-	2-	1-	-9-	-	-	-	-	12.65				
04-35.6792-109.7078-2-06-						0-N08929-09/17/78-15-	26-	16.0	-C-	-			7.0-	1800-	7-1-6-	-	-2-	3-	1-	-3-	2-	3-	1-	-9-	-	-	-	-	35.76				
04-35.6447-109.7094-2-08-						0-N08930-09/17/78-15-	26-	18.0	-C-	-			7.1-	900-	6-1-6-	-	-2-	3-	1-	-3-	2-	2-	1-	-9-	4-	-	-	-	1.00				
04-35.6492-109.6831-2-08-						0-N08931-09/17/78-17-	26-	19.0	-C-	-			7.1-	900-	12-1-6-	-	-2-	3-	1-	-3-	2-	2-	4-	-	-1-	-	-	-	6.16				
04-35.2986-109.6381-2-08-						0-N08962-09/16/78-11-	24-	17.1	-C-	-			6.9-	580-	8-1-6-	-	-	-	-1-	-3-	3-	3-	2-	-9-	1-	-	-	-	0.18				
04-35.2831-109.6942-2-06-						0-N08967-09/16/78-14-	26-	17.8	-C-	-			6.6-	740-	9-1-4-	4-	4-	4-	3-	1-	-3-	3-	3-	2-	-9-	-	-	-	-	10.29				
04-35.2872-109.6883-2-06-						0-N08968-09/16/78-15-	26-	17.5	-C-	-			6.4-	640-	6-1-6-	4-	6-	4-	3-	1-	-3-	2-	3-	2-	-9-	-	-	-	-	23.05				
04-35.3106-109.7208-2-08-						0-N08972-09/16/78-17-	27-	17.2	-C-	-			6.8-	2000-	7-1-6-	-	-	-	-1-	-3-	3-	4-	2-	-9-	4-	-	-	-	493.53*				
04-35.3247-109.6069-2-08-						0-N08975-09/16/78-18-	27-	21.3	-C-	-			6.9-	520-	9-1-6-	-	-	-	-1-	-3-	3-	3-	2-	-9-	-	-	-	-	0.86				
04-35.3361-109.5836-2-08-						0-N08976-09/16/78-18-	27-	19.1	-C-	-			6.7-	460-	7-1-6-	-	-	-	-1-	-3-	3-	3-	2-	-9-	-	-	-	-	0.70				
04-35.2772-109.9886-2-08-						0-N08977-09/17/78-11-	23-	19.3	-C-	-			6.9-	920-	9-1-4-	-	-	-	-1-	-3-	3-	4-	2-	-9-	-	-	-	-	13.12				
04-35.3486-109.8903-2-08-						0-N08987-09/17/78-18-	24-	18.5	-C-	-			6.6-	20500-	10-1-4-	-	-	-	-2-	-3-	3-	2-	2-	-9-	-	-	-	-	3.20				
04-35.3289-109.8094-2-08-						0-N08993-09/18/78-12-	23-	18.6	-C-	-			7.0-	2050-	11-1-4-	-	-	-	-2-	-3-	3-	3-	1-	-9-	-	-	-	-	18.86				
04-35.4169-109.6461-2-08-						0-N09009-09/19/78-11-	23-	14.2	-C-	-			7.5-	280-	12-1-4-	-	-	-	-1-	-1-	3-	4-	1-	-9-	1-	-	-	-	1.15				
04-35.4553-109.6886-2-08-						0-N09012-09/19/78-13-	23-	15.5	-C-	-			7.4-	300-	8-1-4-	-	-	-	-1-	-3-	3-	3-	1-	-9-	1-	-	-	-	1.32				
04-35.4889-109.6706-2-08-						0-N09014-09/19/78-13-	23-	18.2	-C-	-			6.7-	260-	8-1-4-	-	-	-	-1-	-3-	3-	3-	1-	-9-	1-	-	-	-	2.69				
04-35.4664-109.7447-2-08-						0-N09018-09/19/78-15-	23-	16.5	-C-	-			7.4-	330-	8-1-4-	-	-	-	-1-	-3-	3-	2-	1-	-9-	1-	-	-	-	0.66				
04-35.4078-109.8878-2-08-						0-N09029-09/20/78- 8-	19-	19.5	-C-	-			5.9-	50000-	9-1-4-	-	-	-	-2-	-3-	3-	2-	1-	-9-	-	-	-	-	4.58				
04-35.4236-109.9094-2-08-						0-N09031-09/20/78- 9-	19-	16.5	-C-	-			6.5-	1320-	9-1-4-	-	-	-	-1-	-3-	3-	4-	1-	-9-	-	-	-	-	13.34				
04-35.4650-109.9347-2-08-						0-N09039-09/20/78-13-	24-	18.2	-C-	-			7.2-	3350-	11-1-4-	-	-	-3-	-	-3-	3-	3-	1-	-9-	1-	-	-	-	48.74*				
04-35.4408-109.9833-2-08-						0-N09042-09/20/78-15-	24-	19.1	-C-	-			7.2-	640-	9-1-4-	-	-	-	-1-	-3-	3-	4-	1-	-9-	4-	-	-	-	4.31				
04-35.4897-109.8697-2-08-						0-N09045-09/20/78-18-	23-	18.5	-C-	-			7.1-	950-	9-1-6-	-	-	-	-1-	-3-	3-	3-	1-	-9-	1-	-	-	-	1.68				
04-35.5097-109.8561-2-08-						0-N09047-09/21/78-10-	22-	18.5	-C-	-			7.1-	900-	9-1-4-	-	-	-	-1-	-3-	3-	2-	1-	-9-	1-	-	-	-	53.06*				
04-35.5319-109.8406-2-08-						0-N09048-09/20/78-11-	22-	17.2	-C-	-			6.8-	710-	14-1-6-	-	-	-	-1-	-3-	3-	2-	1-	-9-	1-	-	-	-	9.95				
04-35.5467-109.8197-2-08-						0-N09051-09/20/78-12-	23-	16.5	-C-	-			6.9-	560-	9-1-6-	-	-	-	-3-	-	-3-	3-	2-	1-	-9-	-	-	-	3.41				
04-35.5778-109.7719-2-08-						0-N09053-09/20/78-13-	24-	18.3	-C-	-			7.3-	650-	9-1-6-	-	-	-	-1-	-3-	3-	3-	1-	-9-	-	-	-	-	3.71				
04-35.5839-109.7656-2-08-						0-N09060-09/20/78-19-	22-	17.6	-C-	-			7.3-	2110-	7-1-6-	-	-	-	-1-	-3-	3-	3-	1-	-9-	-	-	-	-	38.21*				
04-35.7236-109.9717-2-08-						0-N09061-09/25/78-14-	27-		-C-	-			8.5-	600-	10-1-6-	-	-	-3-	1-	-3-	3-	3-	2-	-9-	1-	3-	-	-	1.06				
04-35.7697-109.9775-2-08-						0-N09065-09/25/78-14-	26-	16.0	-C-	-			7.7-	2800-	6-1-6-	-	-	-3-	1-	-3-	3-	3-	2-	-9-	-	-	-	-	1.60				
04-35.8011-109.9353-2-08-						0-N09067-09/25/78-15-	27-	13.0	-C-	-			7.0-	375-	18-1-6-	-	-3-	-1-	-3-	-3-	3-	2-	-9-	-	-	-	-	-	3.32				
04-35.8111-109.9828-2-06-						0-N09069-09/25/78-16-	26-	16.0	-C-	-			7.3-	345-	19-1-6-	-	-2-	3-	1-	-3-	3-	3-	2-	-9-	1-	-	-	-	4.45				
04-35.8317-109.9989-2-08-						0-N09072-09/25/78-16-	26-	17.0	-C-	-			7.8-	2800-	15-1-6-	-	-	-3-	1-	-3-	3-	1-	2-	-9-	-	-	-	-	1.64				
04-35.8697-109.9589-2-08-						0-N09074-09/25/78-17-	25-	15.0	-C-	-			6.9-	1400-	8-1-6-	-	-2-	3-	1-	-3-	3-	2-	2-	-9-	-	-	-	-	2.76				
04-35.9258-109.8983-2-06-						0-N09078-09/25/78-18-	24-	14.0	-C-	-			7.2-	465-	15-1-6-	-	-3-	3-	1-	-3-	3-	2-	2-	-9-	-	-	-	-	4.74				
04-35.9503-109.9392-2-06-						0-N09086-09/26/78-12-	30-		-C-	-			6.7-	490-	-1-6-	-	-3-	3-	1-	-3-	3-	3-	1-	-9-	-	-	-	-	9.87				
04-35.9258-109.9636-2-06-						0-N09087-09/26/78-12-	30-	18.0	-C-	-			7.2-	420-	12-1-6-	-	-4-	3-	1-	-3-	3-	3-	1-	-9-	-	-	-	-	3.23				
04-35.9106-109.9828-2-06-						0-N09088-09/26/78-13-	31-	16.0	-C-	-			6.7-	425-	8-1-6-	-	-2-	3-	1-	-3-	3-	3-	1-	-9-	-	-	-	-	3.12				
04-35.7358-109.9339-2-08-						0-N09090-09/26/78-14-	32-	14.0	-C-	-			7.5-	2500-	10-1-6-	-	-	-4-	1-	-3-	3-	2-	1-	-9-	1-	3-	-	-	0.62				
04-35.6750-109.8908-2-08-						0-N09095-09/26/78-15-	31-	16.0	-C-	-			7.0-	3300-	10-1-6-	-	-3-	4-	1-	-3-	3-	1-	1-	-9-	-	-	-	-	36.48*				
04-35.8475-108.7522-2-08-						0-N09101-09/18/78-14-	29-	13.0	-C-	-			6.9-	565-	-1-6-	-	-3-	-1-	-3-	-3-	2-	2-	-1-	-7-	-	-	-	-	4.57				
04-35.9128-108.8167-2-08-						0-N09108-09/18/78-16-	25-	14.0	-C-	-			6.8-	265-	-1-6-	-	-4-	-1-	-1-	-4-	2-	2-	-1-	-9-	-	-	-	-	0.14				
04-35.9219-108.8322-2-06-						0-N09109-09/18/78-16-	25-	12.0	-C-	-			7.6-	280-	-1-6-	-	-2-	-1-	-1-	-4-	3-	2-	-9-	-	-	-	-	-	0.27				
04-35.9100-108.8092-2-06-						0-N09110-09/18/78-16-	24-	13.0	-C-	-			7.1-	270-	-1-6-	-	-3-	-1-	-1-	-4-	2-	2-	-9-	-	-	-	-	-	0.76				
04-35.9239-108.8169-2-07-						0-N09111-09/18/78-17-	23-	14.0	-C-	-			7.3-	205-	6-1-6-	4-	6-	3-	3-	1-	2-	1-	3-	2-	2-	-1-	-	-	-	-	0.09				
04-35.9250-108.8228-2-07-						0-N09112-09/18/78-17-	23-	13.0	-	-			7.1-	211-	6-1-6-	4-	6-	2-	2-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	0.09				
04-35.7103-108.8025-2-08-						0-N09115-09/19/78-10-	21-	14.0	-	-			7.3-	1085-	-1-6-	-	-3-	-1-	-3-	-2-	1-	4-	-1-	1-	-	-	-	-	0.35				

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
04-35.6842-108.8017-2-08-						0-N09118-09/19/78-10-	22-14.0-		-	-			7.8-	1000-		-1-6-	-	-3-	-1-	-3-3-1-2-	-1-1-	-	-	-	0.65
04-35.7689-108.7756-2-08-						0-N09125-09/19/78-13-	25-16.0-		-	-			7.7-	2200-		-1-6-	-	-3-	-1-	-2-2-1-2-	-1-1-	-	-	-	2.53
04-35.7922-108.8303-2-08-						0-N09127-09/19/78-13-	24-17.0-		-	-			7.3-	425-		-1-6-	-	-3-	-1-	-1-3-1-2-	-1-8-	-180-		-	0.11
04-35.9047-108.8944-2-08-						0-N09134-09/19/78-15-	24-15.0-		-	-			7.4-	489-		-1-6-	-	-3-	-1-	-1-3-2-2-	-1-1-	-	-	-	0.09
04-35.9386-108.9147-2-07-						0-N09136-09/19/78-16-	24-15.0-		-	-			6.2-	240-		9-1-6-4-6-2-2-3-2-3-3-3-2-					-1-	-	-	-	-	0.59
04-35.9475-108.9117-2-07-						0-N09138-09/19/78-16-	23-14.0-		-	-			6.8-	300-		7-1-6-4-6-3-3-1-2-1-3-3-2-					-1-	-	-	-	-	0.18
04-35.9606-108.9175-2-07-						0-N09139-09/19/78-17-	23-14.0-		-	-			6.8-	150-		7-1-6-4-6-3-2-1-2-1-3-3-2-					-1-	-	-	-	-	0.08
04-35.7878-108.8300-2-08-						0-N09141-09/19/78-17-	23-15.0-C-		-	-			7.2-	370-		-1-6-	-	-3-	-1-	-2-3-1-2-	-1-	-	-	-	0.08
04-35.7872-108.8656-2-08-						0-N09144-09/20/78-10-	23-15.0-		-	-			7.6-	1090-		-1-6-	-	-2-	-1-	-3-3-1-1-	-1-1-	-	-	-	1.99
04-35.8261-108.8019-2-08-						0-N09154-09/20/78-12-	26-15.0-		-	-			7.7-	1100-		-1-6-	-	-3-	-1-	-1-2-2-1-	-1-1-	-	-	-	6.19
04-35.6897-108.9844-2-06-						0-N09157-09/20/78-15-	27-16.0-		-	-			8.5-	800-		-1-6-	-	-3-	-1-	-1-3-2-1-	-1-1-	-	-	-	1.15
04-35.9358-108.9583-2-08-						0-N09166-09/20/78-18-	24-16.0-C-		-	-			8.6-	420-		-1-6-	-	-3-	-1-	-3-3-1-1-	-1-1-	-	-	-	0.34
04-35.9900-108.9767-2-08-						0-N09172-09/21/78-10-	25-16.0-		-	-			7.3-	800-		-1-6-	-	-3-	-1-	-3-3-2-1-	-1-	-	-	-	0.91
04-35.9275-108.9364-2-08-						0-N09177-09/21/78-11-	26-15.0-C-		-	-			7.6-	610-		-1-6-	-	-3-	-	-3-3-1-1-	-1-	-	-	-	5.39
04-35.6603-108.9236-2-08-						0-N09180-09/21/78-13-	27-15.0-		-	-			7.7-	3400-		-1-6-	-	-3-	-1-	-1-3-2-1-	-1-1-	-	-	-	3.44
04-35.6706-108.8939-2-08-						0-N09182-09/21/78-14-	27-16.0-		-	-			8.7-	2100-		-1-6-	-	-3-	-1-	-1-2-2-2-	-1-1-	-	-	-	2.38
04-35.9253-108.7067-2-06-						0-N09188-09/21/78-17-	25-17.0-C-		-	-			6.5-	650-		-1-6-	-	-3-	-1-	-1-3-2-2-	-1-	-	-	-	10.32
04-35.9311-108.7383-2-06-						0-N09189-09/21/78-17-	26-12.0-C-		-	-			6.6-	620-		-1-6-	-	-3-	-1-	-1-4-1-2-	-1-	-	-	-	10.95
04-35.9511-108.7369-2-06-						0-N09192-09/21/78-18-	24-12.0-C-		-	-			6.1-	205-		-1-6-	-	-3-	-1-	-1-3-1-2-	-1-	-	-	-	0.72
04-35.9925-108.6428-2-08-						0-N09196-09/22/78- 8-	24-19.0-		-	-			8.7-	780-		-1-6-	-	-3-	-1-	-3-2-1-1-	-1-1-	-	-	-	0.40
04-35.9881-108.6778-2-08-						0-N09197-09/22/78-10-	25-17.0-		-	-			8.7-	1800-		-1-6-	-	-2-	-1-	-3-3-1-1-	-1-	-	-	-	10.40
04-35.8439-108.7489-2-08-						0-N09209-09/22/78-13-	27-16.0-C-		-	-			6.0-	510-		-1-6-	-	-3-	-1-	-3-3-2-1-	-1-7-	-	-	-	4.61
04-35.8511-108.6681-2-08-						0-N09210-09/22/78-13-	27-28.0-C-		-	-			7.5-	590-		-1-6-	-	-4-	-1-	-3-3-1-1-	-1-	-	8-	-	0.35
04-35.8114-108.7300-2-08-						0-N09215-09/22/78-15-	27-15.0-		-	-			6.5-	840-		-1-6-	-	-3-	-1-	-3-2-1-1-	-1-1-	-	-	-	1.32
04-35.7853-108.7106-2-08-						0-N09216-09/22/78-15-	27-15.0-		-	-			8.1-	600-		-1-6-	-	-4-	-1-	-3-3-1-2-	-1-4-	-	-	-	0.15
04-35.8047-108.7075-2-08-						0-N09218-09/22/78-15-	27-14.0-		-	-			8.3-	1380-		-1-6-	-	-2-	-1-	-3-3-1-2-	-1-7-	-	-	-	3.30
04-35.7619-108.7197-2-08-						0-N09220-09/22/78-16-	27-15.0-		-	-			8.7-	1950-		-1-6-	-	-3-	-1-	-3-3-1-2-	-1-1-	-	-	-	2.40
04-35.7767-108.6186-2-08-						0-N09226-09/22/78-17-	25-14.0-		-	-			8.4-	770-		-1-6-	-	-3-	-1-	-3-3-1-2-	-1-	-	-	-	0.11
04-35.7664-108.6664-2-08-						0-N09229-09/26/78-16-	27-17.0-C-		-	-			8.0-27000-			-1-6-	-	-3-	-1-	-3-2-1-2-	-1-8-	-	-	-	0.99
04-35.7944-108.5314-2-08-						0-N09230-09/26/78-16-	27-16.0-C-		-	-			8.4-	2300-		-1-6-	-	-3-	-1-	-3-3-1-2-	-1-	-	-	-	1.07
04-35.7953-108.4758-2-08-						0-N09233-09/27/78- 9-	23-16.0-		-	-			8.8-30000-			-1-6-	-	-3-	-1-	-3-3-1-1-	-1-8-	-	-	-	1.74
04-35.8014-108.3639-2-08-						0-N09240-09/27/78-10-	25-17.0-C-		-	-			8.6-	1820-		-1-6-	-	-3-	-1-	-3-3-1-1-	-1-	-	-	-	0.92
04-35.7536-108.3183-2-08-						0-N09241-09/27/78-11-	26-14.0-		-	-			7.2-	1350-		-1-6-	-	-3-	-1-	-3-2-1-1-	-1-1-	-	-	-	0.35
04-35.8411-109.0200-2-08-						0-N09247-09/28/78- 8-	20-16.0-C-		-	-			6.3-	270-		-1-6-	-	-3-	-1-	-3-3-3-2-	-1-	-	-	-	2.37
04-35.9981-109.0550-2-08-						0-N09254-09/28/78-10-	23-15.0-		-	-			8.5-	1500-		-1-6-	-	-3-	-1-	-3-3-1-2-	-1-1-	-	-	-	6.63
04-35.7972-109.0558-2-08-						0-N09263-09/28/78-12-	26-14.0-		-	-			8.3-	1000-		-1-6-	-	-3-	-1-	-3-3-2-2-	-1-1-	-	-	-	4.46
04-35.8619-109.0528-2-08-						0-N09265-09/28/78-13-	27-15.0-		-	-			8.2-	2500-		-1-6-	-	-3-	-1-	-2-2-1-2-	-1-7-	-	-	-	1.85
04-35.8514-109.1767-2-06-						0-N09287-09/29/78-15-	27-16.0-C-		-	-			7.3-	530-		-1-6-	-	-3-	-1-	-1-3-1-2-	-1-	-	-	-	1.85*
04-35.8400-109.1681-2-06-						0-N09289-09/29/78-15-	26-14.0-C-		-	-			7.2-	395-		-1-6-	-	-3-	-1-	-3-3-1-2-	-1-	-	-	-	1.14
04-35.8144-109.1553-2-06-						0-N09290-09/29/78-16-	29-14.0-C-		-	-			7.3-	520-		-1-6-	-	-3-	-1-	-3-3-1-2-	-1-	-	-	-	0.65
04-35.8086-109.1653-2-06-						0-N09292-09/29/78-16-	25-15.0-C-		-	-			7.3-	460-		-1-6-	-	-3-	-1-	-3-3-1-2-	-1-	-	-	-	0.37
04-35.7964-109.1353-2-08-						0-N09294-09/29/78-17-	26-16.0-		-	-			7.1-	400-		-1-6-	-	-3-	-1-	-3-4-1-2-	-1-1-	-	-	-	14.70
04-35.8025-109.0956-2-06-						0-N09295-09/30/78- 9-	20-15.0-C-		-	-			7.5-	610-		-1-6-	-	-3-	-1-	-3-4-1-2-	-1-	-	-	-	3.44
04-35.7189-108.6858-2-08-						0-N09305-09/30/78-12-	26-16.0-C-		-	-			7.2-	450-		-1-6-	-	-4-	-1-	-3-3-1-2-	-1-	-	-	-	0.60
04-35.6875-108.7028-2-08-						0-N09306-09/30/78-13-	26-15.0-C-		-	-			7.3-	935-		-1-6-	-	-3-	-1-	-1-2-2-2-	-1-	-	-	-	0.27
04-35.7292-108.6289-2-08-						0-N09313-09/30/78-15-	26-16.0-		-	-			7.3-	1070-		-1-6-	-	-2-	-1-	-3-3-1-2-	-1-	-	-	-	0.40
04-35.6950-108.6475-2-06-						0-N09317-09/30/78-16-	25-17.0-C-		-	-			6.4-	2205-		-1-6-	-	-2-	-6-	-1-2-3-2-	-1-	-	-	-	0.96
04-35.6664-108.5678-2-08-						0-N09325-10/01/78-12-	26-16.0-		-	-			7.3-	2020-		-1-6-	-	-3-	-1-	-3-3-1-2-	-1-	-	-	-	1.46
04-35.7706-108.5314-2-08-						0-N09330-10/01/78-14-	27-15.0-		-	-			7.3-	410-		-1-6-	-	-3-	-1-	-1-2-3-2-	-1-	-	-	-	0.25
04-35.7731-108.5228-2-08-						0-N09331-10/01/78-14-	27-17.0-		-	-			7.1-	300-		-1-6-	-	-3-	-1-	-3-3-2-2-	-1-	-	-	-	0.32
04-35.7364-108.3992-2-06-						0-N09339-10/01/78-16-	25-15.0-C-		-	-			7.1-	240-		-1-6-	-	-3-	-1-	-1-2-2-2-	-1-	-	-	-	0.17

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
04-35.8306-108.6122-2-08-						0-N09346-10/03/78-13-			26-16.0-C-				8.4-	705-		-1-6-	-	-3-	-1-	-3-3-1-1-	-1-	-	-	-	-	0.09
04-35.8200-108.5664-2-08-						0-N09340-10/03/78-14-			26-17.0-	-	-		6.2-	260-		-1-6-	-	-3-	-1-	-3-3-1-1-	-1-7-	-	-	-	-	1.53
04-35.8858-108.5139-2-08-						0-N09355-10/03/78-16-			24-14.0-C-		-		8.7-	850-		-1-6-	-	-3-	-1-	-3-3-1-1-	-1-	-	-	-	-	0.29
04-35.9142-108.6186-2-08-						0-N09361-10/03/78-17-			24-15.0-	-	-		9.4-	900-		-1-6-	-	-3-	-1-	-3-3-2-1-	-1-1-	-	-	-	-	0.19
04-35.9444-108.5089-2-08-						0-N09366-10/04/78-10-			24-17.0-	-	-		8.8-	3500-		-1-6-	-	-3-	-1-	-3-3-1-1-	-1-1-	-	-	-	-	1.71
04-35.9697-108.5703-2-08-						0-N09370-10/04/78-11-			24-18.0-C-		-		9.3-	1000-		-1-6-	-	-3-	-1-	-3-3-1-1-	-1-	-	-	-	-	0.23
04-35.8242-109.7247-2-08-						0-N09378-09/19/78-12-			26-18.0-C-		-		7.3-	700-		9-1-6-	-	-2-3-1-		-3-2-2-2-	-9-1-	-	-	-	-	2.77
04-35.7383-109.7586-2-08-						0-N09380-09/19/78-12-			26-18.0-C-		-		7.2-	800-		17-1-6-	-	-2-3-1-		-3-2-2-2-	-9-	-	-	-	-	9.08
04-35.6939-109.7119-2-08-						0-N09386-09/19/78-15-			26-	-C-	-		7.8-	780-		12-1-6-	-	-2-3-1-		-3-2-3-2-	-9-	-	-	-	-	5.69
04-35.6792-109.7706-2-08-						0-N09387-09/19/78-16-			26-17.0-C-		-		7.2-	650-		12-1-6-	-	-2-3-1-		-3-2-2-2-	-9-4-	-	-	-	-	0.55
04-35.6253-109.7928-2-08-						0-N09389-09/19/78-16-			26-18.0-C-		-		7.2-	800-		9-1-6-	-	-2-3-1-		-3-2-3-2-	-9-1-	-	-	-	-	3.47
04-35.6469-109.8306-2-08-						0-N09390-09/19/78-16-			26-19.0-C-		-		7.1-	340-		14-1-6-	-	-2-3-1-		-3-2-2-2-	-9-	-	-	-	-	7.02
04-35.7494-109.8169-2-08-						0-N09396-09/19/78-19-			24-18.0-C-		-		7.5-	700-		15-1-6-	-	-2-3-1-		-1-2-3-2-	-9-	-	-	-	-	1.81
04-35.7597-109.6131-2-08-						0-N09397-09/20/78-	9-		20-18.0-C-		-		7.3-	2000-		17-1-6-	-	-2-3-1-		-3-2-2-1-	-9-	-	-	-	-	68.85*
04-35.8149-109.6178-2-08-						0-N09401-09/20/78-10-			21-19.0-C-		-		7.4-	6200-		23-1-6-	-	-2-3-1-		-3-2-2-1-	-9-1-	-	-	-	-	166.15*
04-35.9367-109.5622-2-08-						0-N09408-09/20/78-12-			22-18.0-C-		-		7.7-	1300-		12-1-6-	-	-2-3-1-		-3-2-1-1-	-9-1-	-	-	-	-	95.79*
04-35.9008-109.5469-2-08-						0-N09415-09/20/78-14-			24-18.0-C-		-		7.2-	600-		12-1-6-	-	-	-3-	- -3-2-2-1-	-9-1-	-	-	-	-	8.83
04-35.8547-109.5269-2-08-						0-N09419-09/20/78-16-			23-17.0-C-		-		7.3-	650-		15-1-6-	-	-2-3-1-		-3-2-3-1-	-9-	-	-	-	-	9.97
04-35.8983-109.6519-2-08-						0-N09428-09/21/78-11-			23-18.0-C-		-		7.3-	2100-		19-1-6-	-	-2-3-1-		-3-2-2-1-	-9-1-	-	-	-	-	14.86
04-35.8803-109.6472-2-08-						0-N09429-09/21/78-12-			23-17.0-C-		-		7.2-	900-		12-1-6-	-	-2-3-1-		-2-3-2-1-	-9-1-	-	-	-	-	1.32
04-35.9267-109.7228-2-08-						0-N09433-09/21/78-13-			24-17.0-C-		-		7.2-	700-		11-1-6-	-	-	-3-	- -3-2-2-1-	-9-1-	-	-	-	-	7.34
04-35.9875-109.7464-2-08-						0-N09436-09/21/78-14-			23-17.0-C-		-		7.4-	2600-		17-1-6-	-	-2-3-1-		-3-2-2-1-	-9-1-	-	-	-	-	7.13
04-35.7678-109.7697-2-08-						0-N09443-09/22/78-	7-		19-18.0-C-		-		7.2-	800-		11-1-6-	-	-2-3-1-		-1-2-3-1-	-9-4-	-	-	-	-	1.17
04-35.7558-109.8456-2-06-						0-N09445-09/22/78-	8-		20-17.0-C-		-		7.2-	240-		15-1-6-	-	-1-3-1-		-3-2-2-1-	-9-	-	-	-	-	0.70
04-35.8067-109.8731-2-08-						0-N09451-09/22/78-11-			22-18.0-C-		-		7.6-	3400-		12-1-6-	-	-2-3-1-		-3-2-3-1-	-9-1-	-	-	-	-	0.56
04-35.8506-109.8972-2-08-						0-N09455-09/22/78-11-			21-17.0-C-		-		7.4-	200-		22-1-6-	-	-2-3-1-		-3-2-3-1-	-9-1-	-	-	-	-	2.91
04-35.8433-109.8014-2-08-						0-N09459-09/22/78-12-			23-17.0-C-		-		7.2-	2500-		12-1-6-	-	-2-3-1-		-3-2-3-1-	-9-1-	-	-	-	-	32.96*
04-35.9300-109.7800-2-08-						0-N09467-09/22/78-14-			24-17.0-C-		-		7.5-	1100-		15-1-6-	-	-	-3-	- -3-2-2-1-	-9-	-	-	-	-	3.06
04-35.9917-109.8252-2-08-						0-N09477-09/22/78-18-			22-18.0-C-		-		7.2-	2100-		12-1-6-	-	-2-3-1-		-3-2-2-1-	-9-	-	-	-	-	3.69
04-35.6081-109.9622-2-08-						0-N09481-09/26/78-17-			31-17.0-C-		-		8.5-	1700-		5-1-6-	-	-2-3-1-		-3-3-1-1-	-9-	-	-	-	-	2.97
04-35.5494-109.9214-2-08-						0-N09483-09/26/78-17-			30-17.0-C-		-		7.7-	12000-		12-1-6-	-	-2-3-1-		-3-3-2-1-	-9-	-	-	-	-	25.75
04-35.5311-109.9608-2-08-						0-N09488-09/26/78-18-			29-17.0-C-		-		8.2-	900-		16-1-6-	-	-2-3-1-		-3-3-3-1-	-9-	-	-	-	-	1.39
04-35.6656-109.9453-2-08-						0-N09492-09/26/78-19-			27-17.0-C-		-		7.7-	1100-		8-1-6-	-	-2-3-1-		-3-3-3-1-	-9-1-	3-	-	-	-	52.43*
04-35.1969-109.3331-2-08-						0-N09493-10/13/78-14-			27-15.0-C-		-		7.3-	800-		6-1-6-	-	-4-4-1-		-3-3-1-1-	-3-3-	-	-	-	-	13.44
04-35.1800-109.3233-2-06-						0-N09495-10/13/78-15-			27-16.0-C-		-		8.8-	420-		6-1-6-7-4-2-2-1-				-3-3-2-1-	-3-	-	-	-	-	7.81
04-35.9028-109.4872-2-08-						0-N09502-09/26/78-13-			22-22.3-C-		-		7.7-	650-		8-1-6-	-	-	-	-1-	-3-3-3-2-	-9-1-	-	-	-	7.60
04-35.9219-109.4497-2-08-						0-N09504-09/26/78-14-			22-17.4-C-		-		7.5-	570-		10-1-6-	-	-	-	-1-	-3-3-4-2-	-9-4-	-	-	-	7.29
04-35.9347-109.4636-2-08-						0-N09505-09/26/78-14-			22-16.8-C-		-		7.4-	550-		10-1-6-	-	-	-	-1-	-3-3-4-2-	-9-4-	-	-	-	7.45
04-35.8886-109.2539-2-06-						0-N09525-09/28/78-16-			24-16.5-C-		-		7.8-	310-		12-1-6-	-	-	-	-1-	-1-3-4-1-	-9-	-	-	-	1.14
04-35.8658-109.4078-2-08-						0-N09526-09/29/78-12-			23-21.2-C-		-		8.4-	390-		8-1-6-	-	-	-	-1-	-2-3-4-2-	-9-	-	-	-	2.40
04-35.8233-109.4219-2-08-						0-N09532-09/29/78-15-			24-18.1-C-		-		7.7-	1100-		12-1-6-	-	-	-	-1-	-1-3-4-2-	-9-4-	-	-	-	19.19*
04-35.8042-109.4344-2-08-						0-N09533-09/29/78-16-			24-16.2-C-		-		7.8-	920-		12-1-6-	-	-	-	-1-	-3-3-4-2-	-9-4-	-	-	-	6.46
04-35.7622-109.3750-2-08-						0-N09541-09/30/78-10-			21-16.5-C-		-		8.6-	330-		4-1-6-	-	-	-	-1-	-1-4-4-1-	-9-4-	-	-	-	0.77
04-35.8047-109.2636-2-07-						0-N09544-09/30/78-13-			23-21.7-C-		-		8.3-	335-		8-1-6-4-6-2-3-5-2-4-3-5-2-					-9-	-	-	-	-	1.03
04-35.7739-109.3300-2-08-						0-N09545-09/30/78-14-			24-16.7-C-		-		8.3-	360-		4-1-6-	-	-	-	-1-	-4-3-4-1-	-3-4-	-	-	-	0.88
04-35.8972-109.4411-2-08-						0-N09553-10/01/78-	8-		19-16.5-C-		-		8.2-	350-		8-1-6-	-	-	-	-1-	-3-3-3-2-	-9-1-	-	-	-	0.24
04-35.7372-109.4686-2-07-						0-N09560-10/01/78-10-			20-22.3-C-		-		8.0-	375-		6-1-4-5-4-2-2-1-1-3-2-3-2-					-9-	-	-	-	-	0.72
04-35.7517-109.4272-2-07-						0-N09562-10/01/78-10-			20-22.0-C-		-		8.4-	400-		12-1-4-	-	-2-2-1-1-3-2-3-2-			-9-	-	-	-	-	0.89
04-35.6878-109.3633-2-08-						0-N09577-10/01/78-16-			23-15.4-C-		-		8.2-	270-		6-1-6-	-	-	-	-1-	-1-3-4-2-	-9-4-	-	-	-	0.53
04-35.6647-109.2817-2-08-						0-N09581-10/01/78-17-			23-18.4-C-		-		7.8-	550-		11-1-6-	-	-	-	-1-	-1-3-4-2-	-9-4-	-	-	-	2.80
04-35.6317-109.2992-2-08-						0-N09587-10/01/78-19-			22-17.8-C-		-		8.0-	480-		6-1-6-	-	-	-	-1-	-3-3-3-2-	-9-1-	-	-	-	1.73

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
04-35.8372-108.4206-2-08-						0-N09601-10/04/78-13-	26-15.0-	-	-	7.3-	1750-		-1-6-	-	-2-	-1-	-3-2-1-1-	-1-7-	-	-	-	7.53
04-35.9383-108.4467-2-08-						0-N09615-10/04/78-17-	26-18.0-C-	-	-	8.4-	3000-		-1-6-	-	-3-	-1-	-3-3-1-1-	-1-	-	-	-	0.30
04-35.9625-108.3728-2-08-						0-N09624-10/05/78- 9-	23-14.0-	-	-	7.6-	3500-		9-1-6-	-	-3-	-1-	-3-3-1-1-	-1-1-	-	-	-	0.92
04-35.9989-108.4219-2-08-						0-N09629-10/05/78-10-	24-15.0-	-	-	8.5-	2400-		9-1-6-	-	-3-	-1-	-3-3-1-1-	-1-	-	-	-	2.23
04-35.9778-108.2733-2-08-						0-N09636-10/05/78-12-	27-16.0-	-	-	7.8-	1850-		9-1-6-	-	-3-	-1-	-3-3-1-1-	-1-1-	-	-	-	0.86
04-35.8856-108.3172-2-08-						0-N09643-10/05/78-14-	28-15.0-C-	-	-	8.2-	3000-		9-1-6-	-	-3-	-1-	-3-3-1-1-	-1-	-	-	-	1.57
04-35.6997-108.2894-2-08-						0-N09650-10/05/78-16-	27-17.0-	-	-	7.1-	1300-		9-1-6-	-	-3-	-1-	-3-3-3-1-	-1-1-	-	-	-	0.27
04-35.7256-108.2819-2-08-						0-N09654-10/05/78-17-	25-17.0-	-	-	7.4-	920-		12-1-6-	-	-3-	-1-	-3-3-1-1-	-1-1-	-	-	-	0.22
04-35.7428-108.2822-2-08-						0-N09657-10/06/78- 8-	21-16.0-	-	-	7.4-	1430-		9-1-6-	-	-3-	-1-	-3-3-1-1-	-1-1-	-	-	-	0.61
04-35.8425-108.3858-2-08-						0-N09661-10/06/78- 9-	22-15.0-	-	-	8.4-	30000-		10-1-6-	-	-3-	-1-	-3-3-1-1-	-1-7-	-	-	-	35.20
04-35.8056-108.2881-2-08-						0-N09668-10/06/78-11-	24-16.0-C-	-	-	7.6-	3500-		7-1-6-	-	-3-	-1-	-3-3-1-1-	-1-	-	-	-	1.10
04-35.0817-109.7086-2-08-						0-N09673-10/13/78- 7-	15-13.2-C-	-	-	6.2-	1850-		12-1-6-	-	-2-2-1-	-4-2-2-1-	-9-1-	2-	-	-	38.03*
04-35.2200-109.6483-2-08-						0-N09683-10/13/78-15-	23-20.0-C-	-	-	6.2-	6900-		12-1-6-	-	-1-	-2-	-4-2-2-1-	-1-1-	-	-	-	124.98*
04-35.6469-109.1017-2-08-						0-N09695-10/03/78- 9-	19-16.6-C-	-	-	7.8-	520-		11-1-6-	-	-	-1-	-3-3-4-1-	-9-4-	-	-	-	0.26
04-35.6642-109.0539-2-08-						0-N09704-10/03/78-15-	23-21.5-C-	-	-	7.5-	510-		9-1-6-	-	-	-1-	-3-3-3-1-	-9-	-	-	-	1.99
04-35.1444-109.2886-2-08-						0-N09709-10/13/78-16-	27-18.0-C-	-	-	8.4-	160-		14-1-6-	-	-4-1-	-3-3-1-1-	-3-	-	-	-	0.78
04-35.1639-109.2414-2-08-						0-N09712-10/13/78-16-	27-19.0-C-	-	-10.3-	210-		17-1-6-	-	-4-2-	-3-3-1-1-	-3-	-	-	-	1.55
04-35.0700-109.3653-2-08-						0-N09716-10/13/78-18-	25-19.0-C-	-	-	9.2-	220-		15-1-6-	-	-4-5-	-3-3-1-1-	-3-	-	-	-	0.28
04-35.0908-109.3672-2-08-						0-N09718-10/13/78-18-	25-19.0-C-	-	-	8.1-	600-		6-1-6-	-	-3-4-	-3-3-1-1-	-3-	-	-	-	2.51
04-35.0878-109.3958-2-08-						0-N09721-10/13/78-18-	23-18.0-C-	-	-	8.1-	350-		6-1-6-	-	-2-2-	-3-3-1-1-	-3-	-	-	-	0.01
04-35.1600-109.3842-2-08-						0-N09722-10/14/78-10-	23-16.0-C-	-	-	8.0-	300-		17-1-6-	-	-4-1-	-3-3-2-1-	-3-1-	3-	-	-	2.41
04-35.1775-109.4203-2-08-						0-N09723-10/14/78-11-	24-13.0-C-	-	-	8.9-	1400-		17-1-6-	-	-2-2-	-3-3-2-1-	-3-1-	3-	-	-	20.48
04-35.1789-109.4486-2-08-						0-N09724-10/14/78-11-	24-14.0-C-	-	-	8.7-	1100-		12-1-6-	-	-3-1-	-3-3-2-1-	-3-1-	3-	-	-	16.87*
04-35.1242-109.3753-2-08-						0-N09725-10/14/78-12-	25-16.0-C-	-	-	7.8-	230-		15-1-6-	-	-3-3-1-	-3-3-1-1-	-3-3-	-	-	-	2.02
04-35.1158-109.4114-2-08-						0-N09726-10/14/78-12-	25-19.0-C-	-	-	8.2-	220-		11-1-6-	-	-4-4-1-	-3-3-2-1-	-3-	-	-	-	5.44
04-35.0469-109.2867-2-08-						0-N09727-10/14/78-13-	26-17.0-C-	-	-	8.7-	220-		15-1-6-	-	-3-2-	-3-3-1-1-	-3-	-	-	-	0.83
04-35.1206-109.5508-2-08-						0-N09728-10/14/78-15-	27-15.0-C-	-	-	8.2-	850-		11-1-6-	-	-2-1-	-3-3-1-1-	-3-1-	3-	-	-	2.02
04-35.1208-109.5144-2-08-						0-N09729-10/14/78-15-	27-22.0-C-	-	-	9.2-	240-		22-1-6-	-	-4-1-	-3-3-1-1-	-3-4-	4-	-	-	4.26
04-35.1153-109.4292-2-08-						0-N09732-10/14/78-16-	27-22.0-C-	-	-	8.2-	250-		14-1-6-	-	-4-2-	-3-3-1-1-	-3-	-	-	-	0.18
04-35.1067-109.4519-2-06-						0-N09733-10/14/78-17-	27-17.0-C-	-	-	8.2-	800-		6-1-6-5-6-	-2-1-	-3-3-1-1-	-3-	-	-	-	5.72
04-35.0236-109.4475-2-08-						0-N09735-10/14/78-18-	26-16.0-C-	-	-	9.6-	220-		9-1-6-	-	-3-1-	-3-3-1-1-	-3-	-	-	-	3.49
04-35.0136-109.4147-2-08-						0-N09736-10/14/78-18-	25-18.0-C-	-	-	9.6-	245-		19-1-6-	-	-2-1-	-3-3-1-1-	-3-1-	3-	-	-	3.10
04-35.0183-109.3783-2-08-						0-N09739-10/16/78-11-	26-16.0-C-	-	-	9.8-	250-		7-1-6-	-	-4-1-	-3-3-2-1-	-3-	-	-	-	3.78
04-35.0244-109.3353-2-08-						0-N09740-10/16/78-11-	26-17.0-C-	-	-	8.6-	210-		4-1-6-	-	-3-4-1-	-3-3-1-1-	-3-1-	3-	-	-	2.36
04-35.0131-109.4867-2-08-						0-N09747-10/16/78-18-	25-17.0-C-	-	-	8.4-	320-		7-1-6-	-	-3-2-1-	-3-3-2-1-	-3-1-	3-	-	-	6.74
04-35.0361-109.5144-2-09-						0-N09748-10/16/78-18-	25-17.0-C-	-	-	7.7-	875-		7-1-6-	-	-2-2-1-	-3-3-2-1-	-3-1-	3-	-	-	67.10*
04-35.1006-109.4953-2-06-						0-N09749-10/17/78-13-	27-16.0-C-	-	-	9.7-	550-		11-1-6-	-	-3-4-2-	-3-3-1-1-	-3-	-	-	-	1.74
04-35.0217-109.5458-2-06-						0-N09753-10/17/78-14-	27-22.0-C-	-	-	8.0-	340-		28-1-6-5-6-	2-2-1-	-3-3-2-1-	-3-	-	-	-	5.28
04-35.1297-109.5256-2-08-						0-N09760-10/17/78-17-	25-18.0-C-	-	-	8.0-	800-		9-1-6-	-	-3-2-	-3-3-1-1-	-3-1-	3-	-	-	0.09
04-35.1272-109.4625-2-06-						0-N09770-10/18/78-15-	27-19.0-C-	-	-	8.2-	270-		6-1-6-5-6-	2-2-1-	-3-3-2-1-	-3-	-	-	-	2.21
04-35.1447-109.4789-2-08-						0-N09772-10/18/78-15-	27-17.0-C-	-	-	7.7-	900-		11-1-6-	-	-3-2-1-	-3-3-1-1-	-3-1-	3-	-	-	10.78
04-35.1569-109.4283-2-08-						0-N09773-10/18/78-16-	27-18.0-C-	-	-	8.2-	270-		15-1-6-	-	-4-1-	-3-3-2-1-	-3-1-	3-	-	-	1.99
04-35.1350-109.4272-2-06-						0-N09774-10/18/78-16-	26-19.0-	-	-	9.1-	180-		22-1-6-	-	-2-4-2-	-3-3-2-1-	-3-	-	-	-	1.35
04-35.0906-109.6042-2-08-						0-N09777-10/18/78-17-	26-20.0-C-	-	-	9.1-	1000-		9-1-6-	-	-2-2-	-3-3-2-1-	-3-1-	3-	-	-	3.21
04-35.1344-109.6778-2-08-						0-N09797-10/19/78-11-	23-16.0-	-	-	7.3-	1710-		6-1-6-	-	-1-3-2-	-4-3-2-1-	-1-1-	-	-	-	73.55*
04-35.0283-109.9414-2-08-						0-N09798-10/21/78-16-	21-17.5-C-	-	-	6.4-	4530-		10-1-6-	-	-2-2-1-	-4-3-2-4-	-9-1-	2-	-	-	12.04
04-35.1103-109.6919-2-08-						0-N09799-10/22/78-10-	21-18.0-C-	-	-	6.6-	1620-		11-1-6-	-	-2-2-1-	-4-3-2-4-	-1-1-	2-	-	-	196.35*
04-35.0672-109.7794-2-08-						0-N09800-10/21/78-18-	22-18.5-C-	-	-	6.4-	1550-		12-1-6-	-	-2-3-1-	-4-3-2-4-	-9-8-	-	-	-	1.04
04-35.0150-109.7739-2-08-						0-N09801-10/25/78- 9-	22-17.5-C-	-	-	6.5-	1250-		12-1-6-	-	-2-2-1-	-4-3-2-1-	-1-1-	-	-	-	25.46*
04-35.0322-109.7586-2-08-						0-N09802-10/25/78-10-	22-18.5-C-	-	-	6.6-	1400-		12-1-6-	-	-2-2-1-	-4-3-2-1-	-1-1-	-	-	-	29.34*

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
04-35.0475-109.7433-2-08-						0-N09803-10/25/78-11-			23-18.0-C-		-	-	6.3-	1100-	12-1-6-	-	-2-2-1-	-4-3-2-1-	-1-1-	-	-	-											10.91
04-35.0611-109.7306-2-08-						0-N09804-10/25/78-12-			22-18.5-C-		-	-	6.2-	1050-	9-1-6-	-	-2-2-1-	-4-3-2-1-	-1-1-	-	-	-											9.42
04-35.0197-109.7289-2-08-						0-N09805-10/25/78-13-			23-17.5-C-		-	-	6.4-	440-	12-1-6-	-	-2-2-1-	-4-3-2-1-	-1-1-	-	-	-											1.60
04-35.0422-109.6972-2-08-						0-N09806-10/25/78-14-			23-17.0-C-		-	-	6.4-	1300-	9-1-6-	-	-2-2-1-	-4-3-2-1-	-1-1-	-	-	-											12.89
04-35.9039-109.4233-2-07-						0-N09849-10/19/78-11-			24-18.0-C-		-	-	7.6-	320-	9-1-6-4-6-		3-3-2-2-1-	3-3-1-	-3-	-	-	-											4.91
04-35.7533-109.0847-2-08-						0-N09856-10/19/78-18-			24-16.5-C-		-	-	7.2-	440-	6-1-5-	-	-3-3-1-	-1-3-3-1-	-1-8-	-	-	-											6.14

APPENDIX I-B

Listings of Field Data and Elemental Concentrations
for Sediment Samples from the Gallup Quadrangle, New Mexico/Arizona
(Pages 30 through 141)

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-B 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
35-35.3606-108.0647-2-15-						0-N08002-05/27/76-13-			29-	-	-	-	-	-	10-1-6-5-6-	-1-	-1-	4-	2-	2-	2-	-3-	-	-	-	-	3.00
35-35.3644-108.0769-2-15-						0-N08003-05/27/76-13-			25-	-C-	-	-	-	-	0-1-1-4-1-	-1-	-	-1-	2-	3-	2-	-3-	-	-	-	-	3.50
35-35.3567-108.1108-2-15-						0-N08005-05/27/76-14-			26-	-C-	-	-	-	-	0-1-1-1-1-	-1-	-	-1-	3-	4-	2-	-	-	-	-	-	2.60
35-35.3744-108.1367-2-15-						0-N08006-05/27/76-16-			31-	-C-	-	-	-	-	0-1-9-5-4-	-1-	-2-	-1-	2-	3-	2-	-3-	-	-	-	-	2.60
35-35.3869-108.1606-2-15-						0-N08007-05/27/76-17-			27-	-C-	-	-	-	-	3-1-1-4-6-	-1-	-	-1-	2-	3-	2-	-3-	-	-	-	-	2.40
35-35.3803-108.1756-2-15-						0-N08008-05/27/76-18-			28-	-C-	-	-	-	-	3-1-6-4-6-	-1-	-2-	4-	3-	2-	2-	-3-	-	-	-	-	3.70
35-35.3944-108.2367-2-15-						0-N08009-05/27/76-15-			30-	-C-	-	-	-	-	0-1-6-5-6-	-1-	-	-4-	3-	1-	2-	-3-	-	-	-	-	2.60
35-35.3867-108.2103-2-15-						0-N08010-05/27/76-14-			28-	-C-	-	-	-	-	3-1-6-5-6-	-1-	-	-4-	3-	2-	2-	-3-	-	-	-	-	2.30
35-35.3786-108.2047-2-15-						0-N08011-05/27/76-16-			28-	-C-	-	-	-	-	10-1-6-5-6-	-1-	-	-4-	3-	2-	2-	-3-	-	-	-	-	2.60
35-35.3136-108.2003-2-12-						0-N08013-05/27/76-16-			24-10.0	-C-	-	-	7.8-	450-	8-1-6-2-6-	-	-	-3-	2-	3-	3-	2-	-3-	-	-	-	-	2.40
35-35.2964-108.1350-2-15-						0-N08014-05/27/76-18-			26-	-	-	-	-	-	17-1-3-2-3-	-1-	-	-1-	3-	3-	2-	-3-	-	-	-	-	2.80
35-35.4350-108.3408-2-15-						0-N08015-05/27/76-12-			24-	-C-	-	-	-	-	7-1-6-7-7-	-1-	-2-	3-	2-	2-	2-	-1-	-	-	-	-	2.40
35-35.4583-108.3944-2-15-						0-N08016-05/27/76-13-			27-	-	-	-	-	-	1-1-1-4-1-	-1-	-2-	5-	3-	3-	2-	-1-	-	-	-	-	2.20
35-35.4342-108.4522-2-15-						0-N08018-05/27/76-14-			29-	-	-	-	-	-	5-1-1-4-7-	-1-	-2-	1-	3-	3-	2-	-1-	-	-	-	-	3.50
35-35.4222-108.4522-2-15-						0-N08019-05/27/76-15-			28-	-	-	-	-	-	-1-6-4-6-	-1-	-	-1-	3-	3-	2-	-1-	-	-	-	-	2.60
35-35.4139-108.4311-2-15-						0-N08020-05/27/76-15-			29-	-	-	-	-	-	5-1-4-4-4-	-1-	-2-	1-	3-	3-	2-	-1-	-	-	-	-	2.50
35-35.3972-108.4236-2-15-						0-N08021-05/27/76-16-			24-	-C-	-	-	-	-	4-1-1-5-6-	-1-	-2-	1-	3-	3-	2-	-9-	-	-	-	-	2.60
35-35.3978-108.4208-2-15-						0-N08022-05/27/76-16-			24-	-	-	-	-	-	2-1-6-5-6-	-1-	-2-	1-	3-	3-	2-	-1-	-	-	-	-	2.80
35-35.4383-108.3978-2-15-						0-N08023-05/27/76-16-			27-	-	-	-	-	-	9-1-4-4-4-	-1-	-	-3-	3-	2-	2-	-1-	-	-	-	-	2.60
35-35.4761-108.4672-2-15-						0-N08025-05/28/76-10-			27-	-	-	-	-	-	7-1-4-4-4-	-1-	-	-3-	3-	1-	1-	-1-	-	-	-	-	1.90
35-35.4303-108.4797-2-12-						0-N08026-05/28/76-10-			25-15.0	-C-	-	-	8.1-	700-	16-1-4-6-6-2-	3-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	3.20
35-35.4244-108.4867-2-11-						0-N08027-05/28/76-11-			21-13.2	-C-	-	-	6.8-	575-	7-1-4-6-4-	2-	3-	5-	-3-	3-	3-	1-	-1-	-	-	-	-	3.00
35-35.3981-108.5225-2-11-						0-N08029-05/28/76-11-			21-13.5	-C-	-	-	6.9-	700-	7-1-7-6-7-	2-	3-	1-	-1-	3-	2-	1-	-9-	-	-	-	-	3.20
35-35.3567-108.4556-2-15-						0-N08031-05/28/76-14-			26-	-	-	-	-	-	7-1-6-4-6-	-1-	-	-3-	3-	2-	2-	-1-	-	-	-	-	2.20
35-35.3211-108.0047-2-15-						0-N08033-05/28/76-16-			37-	-C-	-	-	-	-	10-1-6-5-6-	-1-	-	-4-	3-	2-	2-	-3-	-	-	-	-	2.80
35-35.3011-108.0869-2-12-						0-N08034-05/28/76- 9-			19-13.0	-	-	-	8.4-	500-	39-1-1-5-6-	4-	3-	4-	2-	1-	3-	4-	1-	-8-	-	-	-	-	2.90
35-35.2972-108.0728-2-12-						0-N08035-05/28/76-10-			22-13.5	-	-	-	8.2-	510-	3-1-3-5-6-	3-	3-	4-	2-	1-	3-	4-	1-	-3-	-	-	-	-	2.50
35-35.3000-108.0217-2-15-						0-N08036-05/28/76-11-			27-	-C-	-	-	-	-	12-1-9-4-6-	-1-	-2-	3-	2-	3-	2-	-	-	-	-	-	3.20
35-35.2811-108.0169-2-15-						0-N08037-05/28/76-11-			25-	-	-	-	-	-	0-1-1-4-6-	-1-	-1-	4-	3-	1-	2-	-3-	-	-	-	-	2.40
35-35.3247-108.1625-2-12-						0-N08038-05/28/76-13-			23-19.5	-C-	-	-	8.5-	510-	18-1-4-5-6-	2-	2-	4-	1-	7-	1-	1-	2-	-8-	-	-	-	-	2.50
35-35.2986-108.1831-2-15-						0-N08039-05/28/76-14-			26-	-C-	-	-	-	-	6-1-1-2-6-	-1-	-2-	1-	3-	3-	2-	-1-	-	-	-	-	2.70
35-35.2183-108.1483-2-12-						0-N08040-05/28/76-16-			27-24.0	-C-	-	-	8.2-	295-	12-1-4-5-4-	2-	3-	1-	2-	3-	3-	3-	2-	-3-	-	-	-	-	4.30
35-35.2172-108.1667-2-15-						0-N08041-05/28/76-18-			26-	-C-	-	-	-	-	12-1-4-3-4-	-1-	-2-	1-	3-	3-	1-	-3-	-	-	-	-	4.60
35-35.2242-108.1825-2-15-						0-N08042-05/28/76-18-			24-	-C-	-	-	-	-	9-1-4-4-4-	-1-	-2-	1-	3-	4-	1-	-1-	-	-	-	-	2.30
35-35.2272-108.1881-2-15-						0-N08043-05/28/76-18-			26-	-C-	-	-	-	-	21-1-4-5-4-	-1-	-2-	1-	3-	2-	1-	-1-	-	-	-	-	1.90
35-35.2281-108.1947-2-12-						0-N08044-05/28/76-18-			23-17.5	-C-	-	-	8.3-	520-	0-1-4-5-4-	2-	3-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	1.80
35-35.2292-108.1944-2-15-						0-N08045-05/28/76-18-			23-	-C-	-	-	-	-	9-1-4-3-4-	-1-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.00
35-35.0975-108.1200-2-15-						0-N09046-05/29/76-16-			25-	-C-	-	-	-	-	12-4-4-3-6-	-1-	-1-	3-	3-	3-	2-	-9-	-	-	-	-	2.60
35-35.0983-108.1206-2-15-						0-N09047-05/29/76-16-			27-	-	-	-	-	-	9-4-6-2-6-	-1-	-2-	3-	3-	2-	2-	-1-	-	-	-	-	2.80
35-35.1058-108.1292-2-12-						0-N08048-05/29/76-16-			25-16.0	-C-	-	-	7.2-	320-	9-4-4-5-6-	2-	2-	1-	2-	3-	3-	2-	1-	-3-	-	-	-	-	3.80
35-35.2131-108.2003-2-12-						0-N08049-05/31/76-11-			20-15.0	-C-	-	-	6.8-	135-	18-1-4-5-6-	2-	2-	1-	2-	4-	3-	3-	1-	-3-	-	-	-	-	4.90
35-35.1908-108.2258-2-12-						0-N08050-05/31/76-11-			19-15.0	-C-	-	-	8.1-	438-	6-1-4-5-6-	2-	3-	2-	2-	4-	4-	2-	2-	-3-	-	-	-	-	3.60
35-35.1869-108.2269-2-12-						0-N08051-05/31/76-12-			18-16.0	-	-	-	7.9-	362-	18-1-4-6-6-	2-	3-	2-	2-	4-	4-	2-	2-	-3-	-	-	-	-	4.10
35-35.1761-108.2481-2-12-						0-N08052-05/31/76-12-			20-24.0	-C-	-	-	7.9-	790-	18-1-4-3-6-	1-	2-	4-	2-	1-	3-	3-	2-	-3-	-	-	-	-	3.50
35-35.1764-108.2514-2-11-						0-N08053-05/31/76-13-			20-29.0	-C-	-	-	8.2-	390-	24-4-1-5-6-	2-	3-	4-	-1-	4-	3-	2-	-3-	-	-	-	-	4.30
35-35.1769-108.2783-2-15-						0-N08054-05/31/76-15-			23-	-C-	-	-	-	-	12-2-4-5-4-	-1-	-2-	4-	3-	3-	2-	-3-	-	-	-	-	2.00
35-35.1992-108.3450-2-11-						0-N08055-05/31/76-16-			24-18.0	-C-	-	-	7.3-	385-	0-1-4-5-6-	1-	2-	2-	-1-	3-	3-	2-	-3-	-	-	-	-	2.60
35-35.2125-108.3214-2-11-						0-N08056-05/31/76-18-			25-	-C-	-	-	-	-	12-1-6-6-8-	-	-	-	-	4-	4-	2-	2-	-3-	-	-	-	-	2.40
35-35.2336-108.3208-2-12-						0-N08057-05/31/76-19-			17-20.0	-	-	-	8.2-	520-	12-1-1-5-6-	2-	2-	3-	2-	1-	3-	4-	1-	-3-	-	-	-	-	3.10
35-35.2483-108.3328-2-15-						0-N08058-06/01/76-10-			25-	-	-	-	-	-	12-1-4-5-4-	-1-	-2-	1-	4-	3-	1-	-3-	-	-	-	-	2.20
35-35.2450-108.3339-2-15-						0-N08059-06/01/76-10-			29-	-C-	-	-	-	-	24-1-4-5-4-	-1-	-1-	1-	4-	3-	1-	-1-	-	-	-	-	2.20

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	LAS 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
35	35.3606	108.0647	2	1	5	0-N08002	-5	5	-5	48	-20	27	6	24	-15	2	22
35	35.3644	108.0769	2	1	5	0-N08003	-5	-5	-5	53	-20	-15	8	-10	-15	2	19
35	35.3567	108.1108	2	1	5	0-N08005	-5	-5	-5	25	-20	-15	9	-10	-15	2	22
35	35.3744	108.1367	2	1	5	0-N08006	-5	7	-5	33	-20	-15	6	-10	-15	2	24
35	35.3869	108.1606	2	1	5	0-N08007	-5	-5	-5	35	-20	-15	10	-10	-15	1	17
35	35.3803	108.1756	2	1	5	0-N08008	-5	-5	-5	27	-20	-15	6	-10	-15	-1	27
35	35.3944	108.2367	2	1	5	0-N08009	-5	5	-5	20	-20	18	7	-10	-15	1	28
35	35.3867	108.2103	2	1	5	0-N08010	-5	-5	-5	25	-20	-15	6	-10	-15	2	26
35	35.3786	108.2047	2	1	5	0-N08011	-5	6	-5	23	-20	-15	9	-10	-15	2	20
35	35.3136	108.2003	2	1	2	0-N08013	-5	6	-5	19	-20	-15	13	-10	-15	-1	6
35	35.2964	108.1350	2	1	5	0-N08014	-5	-5	-5	37	-20	19	8	-10	-15	1	23
35	35.4350	108.3409	2	1	5	0-N08015	-5	-5	-5	24	-20	-15	14	-10	-15	2	28
35	35.4583	108.3944	2	1	5	0-N08016	-5	7	-5	20	-20	-15	-5	-10	-15	1	29
35	35.4342	108.4522	2	1	5	0-N08018	-5	6	-5	21	-20	25	13	-10	-15	2	22
35	35.4222	108.4522	2	1	5	0-N08019	-5	5	-5	32	-20	27	6	-10	-15	2	24
35	35.4139	108.4311	2	1	5	0-N08020	-5	-5	-5	28	-20	16	12	-10	-15	2	27
35	35.3972	108.4236	2	1	5	0-N08021	-5	-5	-5	20	-20	-15	12	-10	-15	1	28
35	35.3978	108.4208	2	1	5	0-N08022	-5	5	-5	26	-20	-15	6	-10	-15	1	20
35	35.4383	108.3978	2	1	5	0-N08023	-5	-5	-5	22	-20	-15	-5	-10	-15	1	17
35	35.4761	108.4672	2	1	5	0-N08025	-5	-5	-5	26	-20	-15	10	-10	-15	2	36
35	35.4303	108.4797	2	1	2	0-N08026	-5	5	-5	23	-20	-15	11	-10	-15	2	34
35	35.4244	108.4867	2	1	1	0-N08027	-5	-5	-5	34	-20	17	5	-10	-15	2	31
35	35.3981	108.5225	2	1	1	0-N08029	-5	-5	-5	31	-20	-15	16	-10	-15	2	33
35	35.3567	108.4556	2	1	5	0-N08031	-5	-5	-5	16	-20	-15	-5	-10	-15	1	29
35	35.3211	108.0047	2	1	5	0-N08033	-5	-5	-5	30	-20	-15	13	-10	-15	3	32
35	35.3011	108.0869	2	1	2	0-N08034	-5	-5	-5	34	-20	-15	13	-10	-15	2	26
35	35.2972	108.0728	2	1	2	0-N08035	-5	-5	-5	14	-20	-15	7	-10	-15	2	17
35	35.3000	108.0217	2	1	5	0-N08036	-5	-5	-5	25	-20	19	8	-10	-15	2	21
35	35.2811	108.0169	2	1	5	0-N08037	-5	-5	-5	17	-20	-15	-5	-10	-15	1	18
35	35.3247	108.1625	2	1	2	0-N08038	-5	-5	-5	27	-20	20	13	-10	-15	2	24
35	35.2986	108.1831	2	1	5	0-N08039	-5	-5	-5	29	-20	-15	13	-10	-15	2	20
35	35.2183	108.1483	2	1	2	0-N08040	-5	-5	-5	76	-20	-15	11	-10	-15	2	40
35	35.2172	108.1667	2	1	5	0-N08041	-5	-5	-5	30	-20	18	9	-10	-15	2	47
35	35.2242	108.1825	2	1	5	0-N08042	-5	-5	-5	18	-20	17	-5	-10	-15	2	24
35	35.2272	108.1881	2	1	5	0-N08043	-5	-5	-5	12	-20	-15	-5	-10	-15	2	25
35	35.2281	108.1947	2	1	2	0-N08044	-5	-5	-5	21	-20	-15	8	-10	-15	2	23
35	35.2292	108.1944	2	1	5	0-N08045	-5	-5	-5	11	-20	-15	-5	-10	-15	2	27
35	35.0975	108.1200	2	1	5	0-N08046	-5	6	-5	20	-20	29	7	-10	-15	2	26
35	35.0983	108.1206	2	1	5	0-N08047	-5	5	-5	42	-20	39	7	-10	-15	2	46
35	35.1058	108.1292	2	1	2	0-N08048	-5	5	-5	43	-20	18	-5	-10	-15	2	41
35	35.2131	108.2003	2	1	2	0-N08049	-5	9	-5	34	-20	-15	9	-10	-15	2	36
35	35.1908	108.2258	2	1	2	0-N08050	-5	5	-5	20	-20	-15	-5	-10	-15	2	27
35	35.1869	108.2269	2	1	2	0-N08051	-5	-5	-5	25	-20	-15	6	-10	-15	2	22
35	35.1761	108.2481	2	1	2	0-N08052	-5	7	-5	14	-20	34	5	-10	-15	2	35
35	35.1764	108.2514	2	1	1	0-N08053	-5	-5	-5	12	-20	-15	-5	-10	-15	2	21
35	35.1769	108.2783	2	1	5	0-N08054	-5	-5	-5	17	-20	-15	-5	-10	-15	2	21
35	35.1992	108.3450	2	1	1	0-N08055	-5	5	-5	12	-20	-15	9	-10	-15	2	22
35	35.2125	108.3214	2	1	1	0-N08056	-5	-5	-5	26	-20	-15	-5	-10	-15	2	29
35	35.2336	108.3208	2	1	2	0-N08057	-5	-5	-5	23	-20	-15	5	-10	-15	2	42
35	35.2483	108.3328	2	1	5	0-N08058	-5	-5	-5	16	-20	-15	-5	-10	-15	2	27
35	35.2450	108.3339	2	1	5	0-N08059	-5	-5	-5	20	-20	-15	-5	-10	-15	1	23

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

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Concentrations reported in weight parts per million (ppm)													
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
35-35.3606-108.0647-2-15-						0-N08002	64180	-0.11	652	18260	76	-62	8.1	46	4.3	6	1.6	19830	13.3	12410	46	0.5
35-35.3644-108.0769-2-15-						0-N08003	59680	-0.13	772	13230	86	-55	11.3	71	4.0	6	2.5	26060	37.8	11610	48	0.7
35-35.3567-108.1108-2-15-						0-N08005	60220	-0.11	537	12360	86	-55	10.9	50	5.0	5	1.9	25530	13.8	11800	42	0.5
35-35.3744-108.1367-2-15-						0-N08006	78450	-0.11	1207	30170	72	-57	14.1	46	6.3	6	2.2	29070	5.3	11610	36	0.4
35-35.3869-108.1606-2-15-						0-N08007	44150	-0.09	774	15760	56	-58	5.9	33	2.4	4	1.2	14720	15.7	7251	27	0.5
35-35.3803-108.1756-2-15-						0-N08008	56460	-0.12	631	12710	82	-56	9.8	61	5.1	5	2.0	23460	44.3	10330	25	0.7
35-35.3944-108.2367-2-15-						0-N08009	55550	-0.10	474	7288	77	-59	10.4	51	4.6	5	1.7	22470	14.6	13700	42	0.5
35-35.3867-108.2103-2-15-						0-N08010	65980	-0.10	541	21460	72	-67	9.8	43	4.2	5	1.5	21130	7.2	13400	36	0.4
35-35.3786-108.2047-2-15-						0-N08011	54390	-0.10	855	23050	63	-55	7.1	45	3.2	5	1.5	15950	12.6	8652	20	0.4
35-35.3136-108.2003-2-12-						0-N08013	18370	-0.09	388	12230	38	-39	3.9	80	3.2	3	1.1	12310	39.5	8089	-9	0.5
35-35.2964-108.1350-2-15-						0-N08014	53640	-0.12	457	18100	96	-52	15.2	78	6.8	7	2.5	27520	11.9	12770	37	0.7
35-35.4350-108.3408-2-15-						0-N08015	62280	-0.10	589	22650	71	-71	9.5	50	5.4	5	1.6	22600	12.5	13540	45	0.5
35-35.4583-108.3944-2-15-						0-N08016	53580	-0.10	487	34180	62	-73	7.2	33	3.5	5	1.4	17280	9.3	8717	12	0.4
35-35.4342-108.4522-2-15-						0-N08018	76700	-0.11	1570	14530	115	-53	11.2	59	6.4	6	2.3	28560	14.4	6981	49	0.6
35-35.4222-108.4522-2-15-						0-N08019	66670	-0.11	590	16480	73	-47	12.8	56	6.2	5	1.8	32700	9.8	15410	38	0.4
35-35.4139-108.4311-2-15-						0-N08020	58730	-0.12	411	6898	66	-58	9.3	45	5.0	6	1.5	18660	7.7	12580	-10	0.4
35-35.3972-108.4236-2-15-						0-N08021	50540	-0.12	363	5066	67	-40	12.6	49	5.3	5	1.5	25360	12.7	9501	47	0.5
35-35.3978-108.4208-2-15-						0-N08022	39340	-0.10	548	6626	73	-29	10.6	54	4.2	5	1.6	21270	24.1	7635	28	0.6
35-35.4383-108.3978-2-15-						0-N08023	47060	-0.09	792	18710	71	-54	8.0	54	3.9	5	1.6	19560	17.7	8265	30	0.5
35-35.4761-108.4672-2-15-						0-N08025	61380	-0.10	449	25370	61	-63	11.1	47	5.0	5	1.6	24220	7.5	14760	36	0.4
35-35.4303-108.4797-2-12-						0-N08026	77260	-0.13	679	20060	82	-49	13.5	53	5.6	6	1.6	31820	8.8	16240	44	0.4
35-35.4244-108.4867-2-11-						0-N08027	79120	-0.16	741	22450	108	-53	18.8	80	8.4	7	2.4	42820	12.5	11590	-12	0.7
35-35.3981-108.5225-2-11-						0-N08028	65970	-0.13	641	14770	82	-65	11.6	71	19.5	6	2.0	29640	12.3	11480	43	0.5
35-35.3567-108.4556-2-15-						0-N08031	43240	-0.09	375	-587	46	-75	5.3	50	2.9	5	1.1	13430	12.7	18110	23	0.3
35-35.3211-108.0047-2-15-						0-N08033	72040	-0.15	434	20810	99	-47	20.0	68	9.9	7	2.2	40030	10.4	13430	28	0.6
35-35.3011-108.0869-2-12-						0-N08034	54340	-0.11	570	34710	85	-60	12.2	57	5.4	6	1.9	22800	12.9	13220	41	0.5
35-35.2972-108.0728-2-12-						0-N08035	40160	-0.09	445	33920	49	-55	8.8	42	3.6	4	1.3	18240	12.4	13510	29	0.4
35-35.3000-108.0217-2-15-						0-N08036	54890	-0.11	1559	11560	69	-37	10.4	46	5.7	5	1.7	25360	17.5	11470	28	0.4
35-35.2811-108.0169-2-15-						0-N08037	35040	-0.10	557	40180	55	-53	10.1	67	4.7	4	1.6	21740	19.0	11820	38	0.4
35-35.3247-108.1625-2-12-						0-N08038	58520	-0.12	482	11850	79	-73	12.6	66	8.0	6	2.0	25910	11.4	20960	42	0.5
35-35.2986-108.1831-2-15-						0-N08039	50920	-0.10	427	13220	55	-62	10.8	51	4.6	5	1.5	20680	9.5	14090	31	0.3
35-35.2183-108.1483-2-12-						0-N08040	56260	-0.12	733	19070	65	-90	8.1	41	14.4	8	1.5	19160	16.6	21890	36	0.6
35-35.2172-108.1667-2-15-						0-N08041	61250	-0.14	953	10590	101	-91	12.0	47	26.5	8	2.6	37220	25.0	24130	56	1.0
35-35.2242-108.1825-2-15-						0-N08042	40800	-0.08	298	8057	56	-69	7.0	61	3.2	4	1.3	17070	18.9	16090	22	0.5
35-35.2272-108.1881-2-15-						0-N08043	43140	-0.08	365	4069	44	-68	6.6	38	2.6	4	1.1	14570	9.1	16500	-8	0.3
35-35.2281-108.1947-2-12-						0-N08044	37900	-0.08	359	10790	38	-72	4.0	35	1.6	3	0.9	9913	8.1	15830	16	0.2
35-35.2292-108.1944-2-15-						0-N08045	38490	-0.09	336	6386	52	-69	7.7	59	3.0	3	1.2	16800	15.7	17630	-9	0.4
35-35.0975-108.1200-2-15-						0-N08046	50280	-0.10	457	8406	84	-72	11.8	51	12.0	5	1.7	23390	14.3	19130	45	0.6
35-35.0983-108.1206-2-15-						0-N08047	62990	-0.14	480	33400	92	-80	22.3	120	15.3	6	2.0	40960	21.4	15440	40	0.7
35-35.1058-108.1292-2-12-						0-N08048	63060	-0.14	375	16260	90	-98	13.0	71	9.2	8	2.0	26990	21.6	15940	48	0.7
35-35.2131-108.2003-2-12-						0-N08049	54390	-0.17	456	8431	123	-110	19.5	72	20.2	9	2.8	34640	23.8	14720	69	1.0
35-35.1908-108.2258-2-12-						0-N08050	51150	-0.11	449	11680	76	-81	9.9	70	10.8	6	1.8	21800	19.6	18200	43	0.5
35-35.1869-108.2269-2-12-						0-N08051	39460	-0.11	531	6395	74	-77	15.6	33	20.7	5	1.5	20610	19.5	14610	-10	0.7
35-35.1761-108.2481-2-12-						0-N08052	52090	-0.13	453	18620	120	-117	15.5	56	19.7	7	1.9	21660	11.6	18240	38	0.5
35-35.1764-108.2514-2-11-						0-N08053	35760	-0.13	421	7219	56	-72	4.7	38	41.8	5	1.5	10300	23.0	13890	-10	0.6
35-35.1769-108.2783-2-15-						0-N08054	44860	-0.10	405	4652	63	-76	8.6	45	6.6	4	1.5	17130	8.2	16890	28	0.4
35-35.1992-108.3450-2-11-						0-N08055	50960	-0.10	401	4049	62	-68	5.7	47	4.2	5	1.5	14310	13.3	16530	30	0.4
35-35.2125-108.3214-2-11-						0-N08056	45450	-0.14	582	22070	63	-81	5.3	49	54.6	5	1.4	12350	11.2	16080	31	0.4
35-35.2336-108.3208-2-12-						0-N08057	47820	-0.08	-314	9970	101	-277	26.4	50	32.2	-3	3.8	35070	11.8	-10540	38	0.5
35-35.2483-108.3328-2-15-						0-N08058	44730	-0.09	368	4189	58	-64	9.6	52	7.9	4	1.3	16950	14.1	18390	24	0.4
35-35.2450-108.3339-2-15-						0-N08059	41940	-0.08	344	-514	47	-71	5.8	44	3.1	4	1.2	12960	11.2	19400	27	0.3

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
35-	35.3606-	108.0647-	2-	15-	0-	N08002	19220	335	4394	50	-3	6.7	5.5	-187	-1	-1	11.3	3530	54	4.5	56	0.265
35-	35.3644-	108.0769-	2-	15-	0-	N08003	16220	366	4905	55	-3	9.2	8.5	-209	-1	-1	16.4	3590	47	5.6	124	0.213
35-	35.3567-	108.1108-	2-	15-	0-	N08005	15690	388	5856	60	-3	8.6	6.3	-207	-1	-1	14.0	4280	51	4.5	83	0.186
35-	35.3744-	108.1367-	2-	15-	0-	N08006	28210	625	1926	67	-3	10.1	6.7	-239	-1	-1	12.4	3717	75	4.4	-55	0.210
35-	35.3869-	108.1606-	2-	15-	0-	N08007	14600	425	4973	-16	-2	4.6	4.6	-181	-1	-1	8.2	2713	41	3.6	41	0.293
35-	35.3803-	108.1756-	2-	15-	0-	N08008	18490	458	4802	57	-3	8.0	5.7	-223	-1	-1	14.7	3223	43	5.9	61	0.252
35-	35.3944-	108.2367-	2-	15-	0-	N08009	15500	470	6270	59	-2	7.5	7.1	-216	-1		11.7	3943	44	4.3	54	0.222
35-	35.3867-	108.2103-	2-	15-	0-	N08010	26200	550	4793	69	-2	7.7	6.1	-231	-1	-1	11.2	4198	54	3.5	78	0.205
35-	35.3786-	108.2047-	2-	15-	0-	N08011	20570	436	3502	52	-2	5.6	4.9	-190	-1	-1	10.2	3016	40	3.3	48	0.255
35-	35.3136-	108.2003-	2-	12-	0-	N08013	3413	109	2899	-18	-2	3.1	2.9	-122	-1		5.7	2187	31	4.5	37	0.421
35-	35.2964-	108.1350-	2-	15-	0-	N08014	10580	486	3898	-26	-3	10.3	8.1	-224	-1	1	11.0	3904	70	5.4	132	0.255
35-	35.4350-	108.3408-	2-	15-	0-	N08015	22710	673	5237	51	-2	7.9	6.6	-246	-1	-1	11.8	3529	53	4.3	48	0.203
35-	35.4583-	108.3944-	2-	15-	0-	N08016	21540	618	6548	50	-2	5.6	4.7	-228	-1	-1	8.7	2892	46	3.6	48	0.253
35-	35.4342-	108.4522-	2-	15-	0-	N08018	26890	366	4592	-24	-3	9.0	7.2	592	-1	-1	17.8	3596	55	5.5	68	0.197
35-	35.4222-	108.4522-	2-	15-	0-	N08019	21670	485	1838	94	-3	10.6	7.4	-205	-1	-1	12.5	4279	68	5.3	122	0.208
35-	35.4139-	108.4311-	2-	15-	0-	N08020	8800	579	3033	51	-3	7.5	6.5	-231	-1	-1	9.3	4058	62	3.6	91	0.269
35-	35.3972-	108.4236-	2-	15-	0-	N08021	9835	308	2944	51	-3	8.5	5.6	-181	-1	-1	10.8	3145	54	3.5	51	0.241
35-	35.3978-	108.4208-	2-	15-	0-	N08022	9603	312	1339	-20	-2	6.6	5.4	-163	-1	-1	10.5	3696	51	4.6	40	0.267
35-	35.4383-	108.3978-	2-	15-	0-	N08023	14740	479	3887	32	-2	5.9	5.0	-225	-1	-1	10.7	2948	44	5.1	73	0.243
35-	35.4761-	108.4672-	2-	15-	0-	N08025	21570	690	5622	76	-3	8.1	5.8	-250	-1	-1	10.1	3607	48	3.4	95	0.188
35-	35.4303-	108.4797-	2-	12-	0-	N08026	20960	506	1362	97	-3	10.2	6.4	305	-1	-1	12.8	4753	84	6.1	59	0.250
35-	35.4244-	108.4867-	2-	11-	0-	N08027	23850	539	1525	95	-4	15.1	10.4	-227	-1	-1	18.3	4876	76	5.7	108	0.164
35-	35.3981-	108.5225-	2-	11-	0-	N08028	19120	379	5714	67	-3	9.2	6.0	-243	-1	-1	11.8	3912	63	5.7	268	0.271
35-	35.3567-	108.4556-	2-	15-	0-	N08031	7691	323	10290	35	-2	5.1	3.7	-192	-1	-1	6.2	3683	41	2.9	44	0.355
35-	35.3211-	108.0047-	2-	15-	0-	N08033	24750	422	1989	104	-4	14.0	8.7	209	-1	2	15.8	4354	68	4.5	82	0.177
35-	35.3011-	108.0869-	2-	12-	0-	N08034	10430	479	4480	63	-3	9.1	6.1	-235	-1	-1	10.9	3607	78	6.0	114	0.266
35-	35.2972-	108.0728-	2-	12-	0-	N08035	9552	457	4114	40	-2	6.1	4.1	-221	-1	-1	7.9	3632	55	2.8	-58	0.316
35-	35.3000-	108.0217-	2-	15-	0-	N08036	20270	282	1690	60	-2	7.8	5.3	250	-1	-1	10.4	3411	55	2.3	82	0.308
35-	35.2811-	108.0169-	2-	15-	0-	N08037	10590	323	3333	47	-2	6.6	4.6	-159	-1	-1	9.1	2669	50	4.4	68	0.264
35-	35.3247-	108.1625-	2-	12-	0-	N08038	14230	429	7968	72	-3	9.4	6.4	-250	-1	-1	12.8	4086	54	5.0	-20	0.195
35-	35.2986-	108.1831-	2-	15-	0-	N08039	12150	682	5307	53	-2	7.3	4.4	-266	-1	-1	9.3	4314	62	3.3	-92	0.290
35-	35.2183-	108.1483-	2-	12-	0-	N08040	12490	499	13410	85	-3	8.0	6.4	-234	-1	-1	13.9	4571	51	7.2	-50	0.309
35-	35.2172-	108.1667-	2-	15-	0-	N08041	9141	473	13400	122	-3	10.9	8.7	-227	2	-1	20.5	3585	59	7.3	78	0.224
35-	35.2242-	108.1825-	2-	15-	0-	N08042	13170	259	11930	50	-2	5.8	5.0	-196	-1	-1	8.0	3070	36	4.6	87	0.288
35-	35.2272-	108.1881-	2-	15-	0-	N08043	9896	278	12740	45	-2	5.4	3.2	-190	-1	-1	6.1	3372	35	3.0	90	0.311
35-	35.2281-	108.1947-	2-	12-	0-	N08044	8760	128	11490	45	-2	3.6	2.9	-156	-1	-1	5.0	3630	28	1.8	36	0.360
35-	35.2292-	108.1944-	2-	15-	0-	N08045	10450	184	11020	58	-2	5.9	5.2	-156	-1	-1	8.2	3127	32	4.0	72	0.244
35-	35.0975-	108.1200-	2-	15-	0-	N08046	10180	558	9324	90	-2	9.0	5.5	-256	-1	-1	11.2	4067	55	5.8	97	0.232
35-	35.0983-	108.1206-	2-	15-	0-	N08047	24320	755	10230	78	-1	17.8	5.9	-281	-1	1	11.5	5045	105	4.5	-37	0.243
35-	35.1058-	108.1292-	2-	12-	0-	N08048	23490	903	11340	71	-3	12.0	8.0	-299	-1	1	17.7	5934	102	4.9	102	0.215
35-	35.2131-	108.2003-	2-	12-	0-	N08049	9152	1057	10510	105	-4	11.6	10.9	-350	-1	2	19.9	4373	53	6.4	112	0.246
35-	35.1908-	108.2258-	2-	12-	0-	N08050	9214	264	11860	97	-3	7.9	6.2	-231	-1	-1	11.7	4059	53	4.1	59	0.308
35-	35.1869-	108.2269-	2-	12-	0-	N08051	7231	836	7329	-24	-2	5.5	6.1	-321	-1	-1	10.9	3891	42	4.6	72	0.376
35-	35.1761-	108.2481-	2-	12-	0-	N08052	12880	1582	9938	64	-1	7.2	8.1	-405	-1	-1	11.4	3744	64	5.3	28	0.307
35-	35.1764-	108.2514-	2-	11-	0-	N08053	-2543	126	9592	114	-1	4.4	5.2	-155	-1	-1	9.8	2707	23	4.6	53	0.439
35-	35.1769-	108.2783-	2-	15-	0-	N08054	6959	305	11390	71	-2	6.0	4.5	-221	-1	-1	7.6	2918	41	3.4	62	0.263
35-	35.1992-	108.3450-	2-	11-	0-	N08055	9048	99	11150	66	-2	6.2	6.0	-168	-1	-1	8.4	4611	49	3.7	-35	0.310
35-	35.2125-	108.3214-	2-	11-	0-	N08056	10310	321	9168	78	-1	5.7	5.2	-213	-1	-1	7.5	4376	38	-2.3	-24	0.320
35-	35.2336-	108.3208-	2-	12-	0-	N08057	-10150	3531	6953	65	-1	11.8	8.4	-850	-1	1	11.2	-1850	-22	3.5	98	0.277
35-	35.2483-	108.3328-	2-	15-	0-	N08058	8494	273	9882	72	-2	6.4	4.5	-190	-1	-1	7.3	3353	40	4.9	27	0.301
35-	35.2450-	108.3339-	2-	15-	0-	N08059	6303	283	11050	-19	-2	4.7	4.7	-202	-1	-1	6.8	3621	36	2.7	71	0.324

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
35	35.2456	108.3378	2	15	0	N08060	06/01/76	11	26		C					12	1	4	4	4													1.90
35	35.2539	108.3458	2	11	0	N08061	06/01/76	11	25		C					12	1	4	5	6													2.20
35	35.2250	108.3525	2	11	0	N08062	06/01/76	12	26	11.0			7.4	510		6	1	4	5	6	2	3	2		2	4	3	2	3					2.10
35	35.0344	108.1411	2	15	0	N08063	05/28/76	12	28		C					7	1	1	5	6		1			1	3	2	2	1					3.00
35	35.0733	108.2225	2	15	0	N08064	05/28/76	16	27							11	1	1	5	6		1			1	3	4	2	1					2.50
35	35.1022	108.2369	2	15	0	N08065	05/28/76	17	29							7	1	6	5	6		1		2	1	4	3	2	1					2.90
35	35.1075	108.2408	2	15	0	N08066	05/28/76	17	27							5	1	1	5	6		1		2	1	3	3	2	1					2.70
35	35.0836	108.2539	2	15	0	N08067	05/28/76	18	25							9	1	1	6	6		1		2	1	3	3	2	1					2.10
35	35.0894	108.2650	2	12	0	N08068	05/28/76	19	23	10.5			8.4	455		9	1	1	4	1	2	2	1	2	1	3	3	2	1					2.20
35	35.0908	108.2639	2	15	0	N08069	05/28/76	17	24							7	1	1	4	6		1		2	1	3	3	2	1					2.00
35	35.0822	108.2703	2	11	0	N08070	05/28/76	20	24	15.0	C		7.7	1400		7	1	4	6	6	2	3	4		4	3	2	2	3					1.40
35	35.0444	108.3122	2	11	0	N08071	05/29/76	12	20	15.7			8.2	415		7	1	6	4	6	3	3	1		1	2	4	1	1					1.50
35	35.0664	108.3094	2	15	0	N08072	05/29/76	12	23		C					7	1	6	5	6		1			1	2	2	1	1					1.70
35	35.1058	108.2714	2	15	0	N08073	05/29/76	13	32							19	1	6	5	6		1			1	3	4	1	1					1.80
35	35.1067	108.2931	2	15	0	N08074	05/29/76	15	28							5	1	6	4	1		1		2	4	3	2	1	1					2.00
35	35.1217	108.3506	2	15	0	N08075	05/29/76	15	28							11	1	1	5	6		1		2	3	3	2	2	1					2.30
35	35.1017	108.3303	2	15	0	N08077	05/29/76	17	25							3	1	6	4	6		1			4	3	2	2	1					1.00
35	35.1181	108.3103	2	15	0	N08078	05/29/76	17	25							3	1	1	5	6		1			3	3	2	2	1					3.00
35	35.1222	108.4228	2	15	0	N08082	05/29/76	19	22		C					11	1	6	5	6		1			4	3	1	2	3					2.10
35	35.0867	108.4619	2	15	0	N08086	05/30/76	9	20							17	1	6	5	6		1		3	4	3	2	3	1					3.20
35	35.3114	108.4033	2	15	0	N08087	05/28/76	16	26		C					7	1	6	7	6		1			4	3	2	2	1					2.50
35	35.3111	108.4039	2	15	0	N08088	05/28/76	16	26		C					4	1	6	7	6		1			4	3	2	2	1					2.20
35	35.3108	108.4078	2	15	0	N08089	05/28/76	16	25		C					11	1	6	7	6		1			4	3	1	2	1					2.50
35	35.3369	108.3947	2	15	0	N08090	05/28/76	17	26		C					9	1	6	4	6		1			1	3	3	2	1					2.80
35	35.3619	108.4056	2	15	0	N08091	05/28/76	16	26								1	6	4	6		1			1	3	3	2	1					1.80
35	35.3931	108.3931	2	12	0	N08092	05/28/76	17	24	19.0			7.0	125		2	1	1	4	6	4	2	1	2	1	4	4	2	1					1.90
35	35.4067	108.3906	2	15	0	N08093	05/28/76	17	26		C					7	1	6	7	6		1			1	3	3	2	1					2.80
35	35.4419	108.3692	2	15	0	N08094	05/28/76	18	27							9	1	1	4	7		1			3	3	2	2	1					5.50
35	35.4000	108.2519	2	15	0	N08095	05/29/76	9	18		C					2	1	6	7	6		1			4	3	2	2	1					2.60
35	35.4058	108.2719	2	15	0	N08096	05/29/76	9	22		C					14	1	6	7	6		1			4	2	2	1	1					2.60
35	35.4208	108.3167	2	15	0	N08097	05/29/76	10	22		C					23	1	6	7	6		1			4	3	2	1	1					2.80
35	35.3683	108.3269	2	15	0	N08100	05/29/76	14	26		C					11	1	6	7	6		1			4	3	2	1	1					2.50
35	35.3636	108.3239	2	15	0	N08101	05/29/76	14	26		C					9	1	6	7	6		1			4	3	2	1	1					2.40
35	35.3603	108.3161	2	15	0	N08102	05/29/76	14	26		C					2	1	6	7	6		1			4	3	2	1	1					2.20
35	35.2903	108.4278	2	11	0	N08103	05/29/76	15	23	9.1	C		7.5	550		11	1	6	7	6	2	3	1		1	3	2	2	1					1.70
35	35.2847	108.4214	2	11	0	N08104	05/29/76	15	23	22.0			7.4	750		7	1	6	6	6	1	3	2		4	4	2	2	1					1.60
35	35.2697	108.4783	2	15	0	N08105	05/29/76	16	23							14	1	6	4	6		1			3	3	2	2	1					3.70
35	35.2792	108.4878	2	15	0	N08107	05/29/76	16	21		C					7	1	6	4	6		1			1	3	2	2	1					2.80
35	35.3264	108.4983	2	12	0	N08108	05/29/76	17	26	18.1	C		7.7	300		14	3	4	4	4	2	2	1	2	1	3	2	1	1					7.20
35	35.3267	108.4997	2	12	0	N08109	05/29/76	17	19	25.0	C		8.7	375		9	4	6	7	6	2	2	1	1	1	3	2	1	1					1.10
35	35.4672	108.5722	2	15	0	N08110	05/30/76	10	23		C					4	1	4	7	4	1		3	3	2	2	2	1	1					2.30
35	35.4664	108.5739	2	15	0	N08111	05/30/76	10	23							7	1	4	4	4	1		3	3	2	2	2	1	1					2.90
35	35.4625	108.5453	2	15	0	N08112	05/30/76	11	23		C					18	1	6	4	6	1	2	3	3	2	2	2	2	1					3.30
35	35.4231	108.5514	2	15	0	N08113	05/30/76	11	21		C					7	1	6	4	6	1	2	1	3	2	2	2	2	1					2.10
35	35.3481	108.5117	2	11	0	N08115	05/30/76	13	16	12.5	C		7.9	475		25	1	7	6	2	3	1	1	1	3	3	2	2	1					25.20
35	35.3481	108.5206	2	11	0	N08116	05/30/76	14	19		C					0	1	6	7	6	3	3	1	1	4	4	2	2	1					2.90
35	35.3369	108.5161	2	11	0	N08117	05/30/76	14	20	19.0	C		7.9	500		11	1	6	7	6	1	2	2	1	4	3	2	2	1					3.60
35	35.3350	108.5067	2	11	0	N08118	05/30/76	15	17	19.0			8.0	600		11	1	6	4	6	2	3	1	1	4	3	3	2	1					21.20
35	35.3550	108.5922	2	15	0	N08119	05/31/76	13	23		C					4	1	6	7	6	1	1	4	2	2	2	9	1	1					1.90
35	35.3756	108.6011	2	11	0	N08120	05/31/76	13	25	23.2	C		7.2	345		4	1	4	7	4	2	3	1	1	3	3	2	2	9					2.00
35	35.3511	108.6367	2	15	0	N08121	05/31/76	15	25		C					9	1	6	7	6	1	1	3	2	2	2	9	1	1					3.20

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

(2)

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
35-	35.2456-	108.3378-	2-	15-	0-	N08040	-5	-5	-5	15	-20	-15	-5	-10	-15	2	20
35-	35.2539-	108.3458-	2-	11-	0-	N08041	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	19
35-	35.2250-	108.3525-	2-	11-	0-	N08042	-5	7	-5	14	-20	-15	7	-10	-15	2	16
35-	35.0344-	108.1411-	2-	15-	0-	N08043	-5	-5	-5	35	-20	16	5	-10	-15	2	21
35-	35.0733-	108.2225-	2-	15-	0-	N08044	-5	5	-5	21	-20	15	5	-10	-15	1	14
35-	35.1022-	108.2369-	2-	15-	0-	N08045	-5	-5	-5	20	-20	18	-5	-10	-15	2	22
35-	35.1075-	108.2408-	2-	15-	0-	N08046	-5	-5	-5	14	-20	-15	6	-10	-15	1	17
35-	35.0836-	108.2539-	2-	15-	0-	N08047	-5	-5	-5	14	-20	-15	14	-10	-15	1	16
35-	35.0894-	108.2650-	2-	12-	0-	N08048	-5	-5	-5	25	-20	-15	-5	-10	-15	-1	13
35-	35.0908-	108.2639-	2-	15-	0-	N08049	-5	-5	-5	28	-20	-15	-5	-10	-15	1	15
35-	35.0822-	108.2703-	2-	11-	0-	N08050	-5	-5	-5	17	-20	-15	-5	-10	-15	-1	7
35-	35.0444-	108.3122-	2-	11-	0-	N08051	-5	-5	-5	13	-20	-15	6	-10	-15	-1	9
35-	35.0664-	108.3094-	2-	15-	0-	N08052	-5	5	-5	27	-20	-15	8	-10	-15	1	15
35-	35.1058-	108.2714-	2-	15-	0-	N08053	-5	-5	-5	29	-20	-15	-5	-10	-15	1	10
35-	35.1067-	108.2931-	2-	15-	0-	N08054	-5	-5	-5	20	-20	-15	-5	-10	-15	1	9
35-	35.1217-	108.3506-	2-	15-	0-	N08055	-5	5	-5	29	-20	-15	5	-10	-15	2	22
35-	35.1017-	108.3303-	2-	15-	0-	N08057	-5	-5	-5	17	-20	-15	-5	-10	-15	-1	9
35-	35.1181-	108.3103-	2-	15-	0-	N08058	-5	5	-5	16	-20	-15	12	-10	-15	2	16
35-	35.1222-	108.4228-	2-	15-	0-	N08082	-5	-5	-5	41	-20	21	11	-10	-15	2	33
35-	35.0867-	108.4619-	2-	15-	0-	N08086	-5	5	-5	26	-20	-15	9	-10	-15	2	36
35-	35.3114-	108.4033-	2-	15-	0-	N08087	-5	9	-5	26	-20	18	11	-10	-15	2	42
35-	35.3111-	108.4039-	2-	15-	0-	N08088	-5	-5	-5	23	-20	-15	5	-10	-15	2	26
35-	35.3108-	108.4078-	2-	15-	0-	N08089	-5	-5	-5	24	-20	15	11	-10	-15	2	23
35-	35.3369-	108.3947-	2-	15-	0-	N08090	-5	-5	-5	22	-20	-15	-5	-10	-15	1	25
35-	35.3619-	108.4056-	2-	15-	0-	N08091	-5	-5	-5	16	-20	-15	-5	-10	-15	1	9
35-	35.3931-	108.3931-	2-	12-	0-	N08092	-5	7	-5	23	-20	-15	6	-10	-15	2	14
35-	35.4067-	108.3906-	2-	15-	0-	N08093	-5	-5	-5	22	-20	-15	8	-10	-15	2	24
35-	35.4419-	108.3692-	2-	15-	0-	N08094	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	14
35-	35.4000-	108.2519-	2-	15-	0-	N08095	-5	-5	-5	16	-20	-15	14	-10	-15	2	29
35-	35.4058-	108.2719-	2-	15-	0-	N08096	-5	-5	-5	23	-20	-15	10	-10	-15	2	27
35-	35.4208-	108.3167-	2-	15-	0-	N08097	-5	-5	-5	34	-20	-15	16	-10	-15	2	40
35-	35.3683-	108.3269-	2-	15-	0-	N08100	-5	-5	-5	14	-20	-15	-5	-10	-15	2	23
35-	35.3636-	108.3239-	2-	15-	0-	N08101	-5	-5	-5	46	-20	36	10	12	-15	2	34
35-	35.3603-	108.3161-	2-	15-	0-	N08102	-5	-5	-5	29	-20	15	8	-10	-15	2	24
35-	35.2903-	108.4278-	2-	11-	0-	N08103	-5	-5	-5	16	-20	-15	-5	-10	-15	2	16
35-	35.2847-	108.4214-	2-	11-	0-	N08104	-5	-5	-5	22	-20	17	-5	-10	-15	1	15
35-	35.2697-	108.4783-	2-	15-	0-	N08105	-5	-5	-5	21	-20	-15	10	-10	-15	2	29
35-	35.2792-	108.4878-	2-	15-	0-	N08107	-5	-5	-5	22	-20	-15	-5	-10	-15	2	20
35-	35.3264-	108.4983-	2-	12-	0-	N08108	-5	-5	5	55	-20	-15	7	11	-15	3	42
35-	35.3267-	108.4997-	2-	12-	0-	N08109	-5	-5	-5	15	-20	-15	-5	-10	-15	1	15
35-	35.4672-	108.5722-	2-	15-	0-	N08110	-5	-5	-5	23	-20	18	-5	-10	-15	2	18
35-	35.4664-	108.5739-	2-	15-	0-	N08111	-5	-5	-5	27	-20	20	-5	-10	-15	2	13
35-	35.4625-	108.5453-	2-	15-	0-	N08112	-5	9	-5	27	-20	19	13	-10	-15	2	27
35-	35.4231-	108.5514-	2-	15-	0-	N08113	-5	5	-5	24	-20	20	7	-10	-15	2	18
35-	35.3481-	108.5117-	2-	11-	0-	N08114	-5	6	-5	17	-20	-15	-5	-10	-15	2	18
35-	35.3481-	108.5206-	2-	11-	0-	N08115	-5	5	-5	25	-20	-15	7	-10	-15	2	19
35-	35.3369-	108.5161-	2-	11-	0-	N08117	-5	-5	-5	29	-20	20	-5	-10	-15	2	21
35-	35.3350-	108.5067-	2-	11-	0-	N08118	-5	5	-5	38	-20	58	-5	-10	56	2	38
35-	35.3550-	108.5922-	2-	15-	0-	N08119	-5	-5	-5	22	-20	17	-5	-10	-15	1	17
35-	35.3756-	108.6011-	2-	11-	0-	N08120	-5	-5	-5	30	-20	24	7	-10	-15	2	26
35-	35.3511-	108.6367-	2-	15-	0-	N08121	-5	-5	-5	21	-20	-15	7	-10	-15	2	23

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

DOE SAMPLE NUMBER						USGS 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
35-35.2456-108.3378-2-15-					0	N08060	36140	-0.08	309	-507	32	-69	3.0	45	3.2	3	0.8	8377	13.4	15800	-7	0.3
35-35.2539-108.3458-2-11-					0	N08061	34340	-0.10	291	2030	43	-67	5.1	69	4.2	4	1.3	14570	28.7	13840	-8	0.5
35-35.2250-108.3525-2-11-					0	N08062	44270	-0.03	484	4400	39	143	5.0	63	5.0	5	1.1	13090	8.9	19140	18	0.3
35-35.0344-108.1411-2-15-					0	N08063	46460	-0.04	345	13260	66	-62	10.0	67	4.5	5	1.2	25390	14.2	14050	30	0.4
35-35.0733-108.2225-2-15-					0	N08064	33800	-0.03	302	3221	57	-53	5.1	36	2.7	4	0.9	13720	15.0	11310	19	0.4
35-35.1022-108.2369-2-15-					0	N08065	44110	-0.03	403	7071	54	-50	6.3	47	3.0	5	1.1	16790	13.7	13910	24	0.4
35-35.1075-108.2408-2-15-					0	N08066	36920	-0.03	413	7176	63	-54	5.9	63	2.3	5	1.3	16870	32.3	13530	23	0.6
35-35.0836-108.2539-2-15-					0	N08067	38330	-0.04	378	10520	56	-68	7.2	49	4.0	4	1.1	19480	14.8	11930	26	0.4
35-35.0894-108.2650-2-12-					0	N08068	23590	-0.02	366	3917	32	-43	2.1	33	1.8	3	0.7	7424	18.8	9828	14	0.3
35-35.0908-108.2639-2-15-					0	N08069	34250	-0.10	372	8846	59	-57	7.6	44	4.0	3	1.4	16700	17.2	10770	38	0.4
35-35.0822-108.2703-2-11-					0	N08070	15670	-0.05	239	4315	28	-32	2.7	23	1.2	2	0.7	6035	16.9	6992	17	0.3
35-35.0444-108.3122-2-11-					0	N08071	20370	-0.02	337	-242	18	-27	2.1	21	1.0	2	0.6	5367	23.4	11340	10	0.3
35-35.0664-108.3094-2-15-					0	N08072	37550	-0.08	419	2550	38	-52	6.0	23	2.5	3	1.0	11140	6.7	13430	14	0.2
35-35.1058-108.2714-2-15-					0	N08073	30500	-0.09	346	2973	41	-43	5.7	38	3.3	3	1.1	12520	20.1	11250	28	0.4
35-35.1067-108.2931-2-15-					0	N08074	22570	-0.07	318	1410	38	-36	3.2	35	-0.7	3	0.9	8789	28.3	11390	10	0.4
35-35.1217-108.3506-2-15-					0	N08075	56620	-0.09	450	8462	66	-45	9.4	43	4.3	5	1.4	23750	13.7	12210	31	0.4
35-35.1017-108.3303-2-15-					0	N08077	20990	-0.02	390	3124	23	254	1.9	16	1.1	2	0.3	4837	4.4	12320	10	0.2
35-35.1181-108.3103-2-15-					0	N08078	34790	-0.03	405	3865	64	-50	11.0	50	3.7	4	1.8	16820	39.6	12730	21	0.6
35-35.1222-108.4228-2-15-					0	N08082	67960	-0.05	398	16550	62	-70	9.8	52	5.3	5	1.4	26960	8.1	15430	26	0.3
35-35.0867-108.4619-2-15-					0	N08084	75290	-0.05	445	7475	71	-59	8.8	50	7.4	6	1.4	29720	8.1	18080	35	0.4
35-35.3114-108.4033-2-15-					0	N08087	62190	-0.06	520	9344	83	-97	10.7	70	6.3	5	1.7	27910	6.9	21930	36	0.4
35-35.3111-108.4039-2-15-					0	N08088	50810	-0.05	455	5273	57	-93	7.6	56	3.4	6	1.3	18650	10.4	15550	29	0.4
35-35.3108-108.4078-2-15-					0	N08089	46780	-0.06	525	4865	55	-86	4.2	53	2.7	5	1.2	13700	11.0	18240	26	0.4
35-35.3369-108.3947-2-15-					0	N08090	39760	-0.06	385	3239	54	-56	6.6	102	3.7	4	1.3	21400	37.2	18690	21	0.5
35-35.3619-108.4056-2-15-					0	N08091	24010	-0.03	239	2255	27	-42	3.5	60	2.2	3	0.9	10660	22.9	7769	16	0.3
35-35.3931-108.3931-2-12-					0	N08092	29160	-0.04	302	7609	39	-52	5.6	53	-1.0	4	0.9	12210	13.7	9482	19	0.3
35-35.4067-108.3906-2-15-					0	N08093	59940	-0.06	336	5994	63	-45	11.1	47	2.1	5	1.0	21910	10.2	7816	22	0.4
35-35.4419-108.3692-2-15-					0	N08094	98580	-0.07	2948	10320	99	-42	7.5	148	2.7	8	3.8	29470	147.1	6406	52	1.6
35-35.4000-108.2519-2-15-					0	N08095	61210	-0.04	514	6838	64	-66	6.7	33	3.9	5	1.2	18930	8.9	9968	28	0.3
35-35.4058-108.2719-2-15-					0	N08096	63630	-0.05	540	12630	60	-63	6.8	39	4.1	5	1.2	20010	8.4	10980	30	0.4
35-35.4208-108.3167-2-15-					0	N08097	76250	-0.07	607	8700	84	-69	8.3	45	5.5	6	1.6	23990	6.1	14650	32	0.5
35-35.3683-108.3269-2-15-					0	N08100	56160	-0.06	502	11730	76	-55	10.2	61	5.1	5	1.5	26100	16.6	11350	37	0.5
35-35.3636-108.3239-2-15-					0	N08101	66580	-0.06	460	15620	91	-84	14.2	88	5.8	5	1.5	29980	7.7	13930	34	0.5
35-35.3603-108.3161-2-15-					0	N08102	54000	-0.05	455	15550	55	-77	8.3	51	4.4	5	1.3	22000	8.9	13540	31	0.4
35-35.2903-108.4278-2-11-					0	N08103	37890	-0.04	388	2849	36	-69	3.1	39	2.2	3	0.8	8295	9.7	15430	13	0.3
35-35.2847-108.4214-2-11-					0	N08104	35940	-0.05	467	6476	42	-59	5.4	44	4.2	3	1.1	10520	9.7	15440	19	0.3
35-35.2697-108.4783-2-15-					0	N08105	57880	-0.04	281	2864	73	-43	8.1	55	2.7	5	1.3	23590	20.6	6769	37	0.5
35-35.2792-108.4878-2-15-					0	N08107	46070	-0.05	332	4237	51	-54	6.2	43	3.8	6	1.0	19580	10.7	8784	24	0.4
35-35.3264-108.4983-2-12-					0	N08108	57280	-0.09	705	15800	173	-98	15.3	118	11.3	11	2.6	56610	47.8	18640	57	1.1
35-35.3267-108.4997-2-12-					0	N08109	35100	-0.04	437	9195	32	-51	3.4	29	2.2	2	0.5	10440	9.6	19740	12	0.2
35-35.4672-108.5722-2-15-					0	N08110	55250	-0.04	367	15770	63	-49	8.2	52	5.9	4	1.3	25160	8.1	13430	26	0.3
35-35.4664-108.5739-2-15-					0	N08111	43480	-0.05	280	1820	70	-30	7.0	55	4.8	8	1.6	28940	21.4	9052	30	0.5
35-35.4625-108.5453-2-15-					0	N08112	63160	-0.07	507	16320	71	-37	11.8	51	5.7	5	1.5	32090	10.2	12210	28	0.5
35-35.4231-108.5514-2-15-					0	N08113	49790	-0.06	498	12980	53	-49	8.7	40	4.2	5	1.3	19220	8.7	12980	21	0.3
35-35.3481-108.5117-2-11-					0	N08115	46800	-0.08	477	7675	67	-77	4.3	38	43.8	10	1.5	10450	44.9	20300	39	1.3
35-35.3481-108.5206-2-11-					0	N08116	50100	-0.07	554	10590	72	-60	14.0	52	7.5	5	1.8	22550	12.4	15650	32	0.5
35-35.3369-108.5161-2-11-					0	N08117	47700	-0.07	542	15040	79	-58	11.4	71	7.7	7	1.9	26580	25.2	16340	38	0.7
35-35.3350-108.5067-2-11-					0	N08118	53870	-0.11	957	15270	160	232	18.6	126	53.4	10	3.0	30850	23.3	17930	74	0.8
35-35.3550-108.5922-2-15-					0	N08119	46230	-0.06	365	11220	49	-68	8.1	31	5.6	4	1.1	16790	6.8	15550	21	0.3
35-35.3756-108.6011-2-11-					0	N08120	61180	-0.08	487	18250	69	-68	12.9	66	5.2	5	1.9	28770	8.3	14150	36	0.3
35-35.3511-108.6367-2-15-					0	N08121	71850	-0.07	644	7071	75	-56	8.9	53	7.9	5	1.7	24200	9.0	19310	35	0.4

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

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
35-35.2456-108.3378-2-15-					0-	N09060	-2477	157	9915	-16	-2	3.3	2.4	-155	-1		4.3	3218	25	2.4	-22	0.442
35-35.2539-108.3458-2-11-					0-	N09061	-2394	155	10040	53	-2	4.9	3.8	-148	-1	-1	8.1	3040	32	3.2	47	0.272
35-35.2250-108.3525-2-11-					0-	N08062	10350	68	11430	54	-1	5.3	3.6	-185	-1	-1	5.6	4404	42	2.4		0.375
35-35.0344-108.1411-2-15-					0-	N08063	8052	456	4504	51	-1	8.5	5.6	-208	-1	-1	10.6	3475	61	4.2	101	0.283
35-35.0733-108.2225-2-15-					0-	N08064	7585	379	3852	40	-1	4.5	3.5	-181	-1	-1	6.4	3370	36	3.3	63	0.391
35-35.1022-108.2369-2-15-					0-	N08065	8465	466	4749	52	-1	5.9	4.7	-208	-1	-1	7.6	3255	48	3.3	98	0.382
35-35.1075-108.2408-2-15-					0-	N08066	6121	490	4445	50	-1	5.3	4.3	-228	-1	-1	9.0	3461	48	3.7	55	0.300
35-35.0836-108.2539-2-15-					0-	N08067	8588	500	4897	71	-1	6.4	4.5	-219	-1	-1	8.3	3100	39	3.7	68	0.253
35-35.0894-108.2650-2-12-					0-	N08068	2847	114	3745	35	-1	2.5	2.4	-116	-1		4.5	2184	20	2.1	-17	0.489
35-35.0908-108.2639-2-15-					0-	N08069	4496	317	4606	64	-2	5.6	5.0	-169	-1	-1	9.3	2558	37	4.6	-36	0.215
35-35.0822-108.2703-2-11-					0-	N08070	3496	139	2226	33	-1	2.1	2.5	-114			4.2	1814	15	2.1	29	0.333
35-35.0444-108.3122-2-11-					0-	N09071	-1222	161	1335	33		1.9	1.6	-118	-1		3.8	1548	18	2.2	-23	0.395
35-35.0664-108.3094-2-15-					0-	N08072	5554	291	4438	38	-2	4.2	3.3	-163	-1	-1	5.1	2479	33	-1.3	37	0.333
35-35.1058-108.2714-2-15-					0-	N08073	4326	207	3149	58	-2	4.6	3.2	-129	-1	-1	6.6	2297	29	3.1	39	0.273
35-35.1067-108.2931-2-15-					0-	N08074	-1449	143	3214	32	-1	3.0	2.7	-122	-1		6.3	2214	22	3.5	29	0.317
35-35.1217-108.3506-2-15-					0-	N09075	12920	440	3379	78	-2	7.7	6.1	-196	-1	-1	9.9	4128	60	4.6	77	0.232
35-35.1017-108.3303-2-15-					0-	N08077	4330	117	4640	46		1.7	1.6	-115	-1		3.1	1439	12	1.0	-30	0.323
35-35.1181-108.3103-2-15-					0-	N08078	5504	361	4192	39	-1	6.0	4.3	-171	-1	-1	9.2	4612	48	3.6	72	0.326
35-35.1222-108.4228-2-15-					0-	N08082	22340	462	5073	73	-1	10.1	6.4	-231	-1	-1	11.3	3406	64	2.3	38	0.186
35-35.0867-108.4619-2-15-					0-	N08086	13530	269	4962	90	-1	11.1	6.7	-176	-1	-1	13.4	3721	64	4.3	86	0.239
35-35.3114-108.4033-2-15-					0-	N09087	17450	623	8751	75	-1	11.3	8.8	-298	-1	-1	11.5	5462	65	3.6	64	0.217
35-35.3111-108.4039-2-15-					0-	N08088	11880	390	12290	71	-1	7.9	5.6	-231	-1	-1	10.0	4401	43	3.2	64	0.220
35-35.3108-108.4078-2-15-					0-	N08089	9069	359	12990	55	-1	5.6	5.1	-262	-1	-1	8.6	4735	40	2.8	-28	0.291
35-35.3369-108.3947-2-15-					0-	N09090	11570	281	6139	60	-1	6.3	4.4	-187	-1	-1	8.0	3280	46	3.7	-38	0.350
35-35.3619-108.4056-2-15-					0-	N08091	4299	211	2466	33	-1	3.3	3.3	-141			3.9	2244	28	2.6	-14	0.462
35-35.3931-108.3931-2-12-					0-	N08092	6232	298	3095	-17	-1	3.6	2.8	-171	-1		5.8	2496	34	2.0	25	0.328
35-35.4067-108.3906-2-15-					0-	N08093	4907	404	2458	-21	-1	6.9	5.0	-219	-1	-1	8.9	3609	61	2.5	32	0.315
35-35.4419-108.3692-2-15-					0-	N08094	12100	466	2398	55	-1	8.8	7.5	-203	2	-1	18.3	4850	55	12.5	51	0.301
35-35.4000-108.2519-2-15-					0-	N08095	19740	446	5129	48	-1	6.5	6.1	-219	-1	-1	10.5	3030	45	3.1	35	0.248
35-35.4058-108.2719-2-15-					0-	N08096	21530	440	4125	55	-1	6.9	5.1	-203	-1	-1	11.7	3063	46	3.1	-65	0.222
35-35.4208-108.3167-2-15-					0-	N08097	30770	606	5410	55	-2	8.6	7.1	-288	-1	-1	12.4	3596	58	3.6	-83	0.226
35-35.3683-108.3269-2-15-					0-	N09100	16220	621	3929	76	-1	9.0	5.9	-246	-1	-1	13.0	3718	52	4.4	68	0.192
35-35.3636-108.3239-2-15-					0-	N09101	17800	1228	3354	82	-1	10.4	8.8	-389	-1	-1	12.2	5166	56	3.3	90	0.197
35-35.3603-108.3161-2-15-					0-	N09102	14040	771	4711	61	-1	7.7	6.1	-270	-1	-1	10.7	3131	51	3.3	60	0.206
35-35.2903-108.4278-2-11-					0-	N09103	4528	72	13300	48	-1	3.1	3.0	-165	-1	-1	5.3	2679	23	2.6	-14	0.321
35-35.2847-108.4214-2-11-					0-	N09104	4032	98	9544	70	-1	4.2	3.6	-150	-1	-1	6.6	2942	27	2.4	-22	0.242
35-35.2697-108.4783-2-15-					0-	N08105	6922	375	1882	-15	-1	8.5	7.5	-181	-1	-1	11.6	4785	63	3.9	-28	0.319
35-35.2792-108.4878-2-15-					0-	N08107	5379	361	3167	-21	-1	6.8	4.4	-188	-1	-1	9.0	3493	53	3.3	64	0.311
35-35.3264-108.4983-2-12-					0-	N09108	21290	1110	10040	82	-2	16.4	16.4	-393	-1	-1	24.8	6508	176	8.9	80	0.290
35-35.3267-108.4997-2-12-					0-	N09109	9717	218	6798	62	-1	3.5	2.6	-156	-1		4.4	1980	20	1.5	-21	0.250
35-35.4672-108.5722-2-15-					0-	N08110	16360	407	2202	60	-1	8.4	7.2	-199	1	-1	9.7	3893	51	3.2	38	0.237
35-35.4664-108.5739-2-15-					0-	N09111	6191	153	977	-22	-1	8.3	7.0	-124	-1	1	9.4	4505	76	4.5	75	0.309
35-35.4625-108.5453-2-15-					0-	N09112	13010	406	1150	47	-2	9.6	7.1	-209	-1	-1	13.3	3411	72	3.9	40	0.248
35-35.4231-108.5514-2-15-					0-	N09113	16320	475	3804	-18	-1	6.3	3.9	-213	-1	-1	7.6	3099	51	3.2	37	0.276
35-35.3481-108.5117-2-11-					0-	N08115	5567	142	13640	61		4.9	7.9	-162	-1	1	23.9	4336	41	10.6	37	1.054
35-35.3481-108.5206-2-11-					0-	N09116	11460	599	5162	66	-2	7.9	5.8	-244	-1	-1	10.0	4315	66	3.8	66	0.290
35-35.3369-108.5161-2-11-					0-	N08117	8586	461	6257	56	-2	8.5	6.3	-209	-1	-1	13.1	4695	71	5.7	90	0.275
35-35.3350-108.5067-2-11-					0-	N09118	20620	410	11440	94		14.5	11.5	410	-1	-1	23.0	6504	89	7.3	183	0.922
35-35.3550-108.5922-2-15-					0-	N08119	9980	894	3093	48	-1	5.9	4.4	-279	-1	-1	7.4	2106	40	2.6	101	0.257
35-35.3756-108.6011-2-11-					0-	N09120	20960	669	6838	89	-2	9.9	5.9	-269	-1	-1	9.7	3643	62	3.7	67	0.206
35-35.3511-108.6367-2-15-					0-	N09121	10670	293	6990	73	-2	9.6	4.9	-181	-1	-1	13.1	4391	76	3.9	100	0.244

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
35-35.3328-108.6342-2-11-						0-N08122-05/31/76-15-	20-	-22.2-C-	-	-	8.0-	1575-		14-1-6-4-6-2-2-1-	-3-2-2-2-	-9-	-	-	-	-	2.90												
35-35.0419-108.4789-2-15-						0-N08125-05/30/76-10-	23-	-	-	-	-	-		17-3-8-5-6-	-1-	-3-4-3-2-2-	-1-	-	-	-	3.20												
35-35.0314-108.4656-2-15-						0-N08126-05/30/76-11-	23-	-	-	-	-	-		17-1-6-5-6-	-1-	-	-4-3-2-2-	-3-	-	-	-	3.20												
35-35.0303-108.4669-2-15-						0-N08127-05/30/76-11-	23-	-	-	-	-	-		23-1-6-5-6-	-1-	-	-4-3-2-2-	-3-	-	-	-	3.80												
35-35.0356-108.4311-2-15-						0-N08130-05/30/76-12-	22-	-	-	-	-	-		23-1-6-5-6-	-1-	-	-4-3-2-2-	-1-	-	-	-	3.10												
35-35.0347-108.4306-2-15-						0-N08131-05/30/76-12-	21-	-	-	-	-	-		13-1-6-5-6-	-1-	-	-4-3-2-2-	-1-	-	-	-	3.40												
35-35.0092-108.3214-2-15-						0-N08134-05/30/76-14-	24-	-	-	-	-	-		27-1-4-5-6-	-1-	-	-4-3-3-2-	-1-	-	-	-	2.70												
35-35.0111-108.0450-2-15-						0-N08136-05/31/76-12-	24-	-	-	-	-	-		13-1-6-5-6-	-1-	-	-1-3-2-2-	-1-	-	-	-	2.80												
35-35.2306-108.3525-2-99-						0-N08137-06/01/76-12-	24-	-C-	-	-	-	-		9-1-4-5-6-	-	-	-2-4-3-1-	-3-	-	-	-	1.70												
35-35.2625-108.3631-2-99-						0-N08138-06/01/76-15-	25-	-C-	-	-	-	-		3-1-4-5-6-	-1-	-	-1-3-3-2-	-3-	-	-	-	1.50												
35-35.1914-108.2911-2-99-						0-N08139-06/01/76-17-	22-	-C-	-	-	-	-		6-1-3-5-6-	-1-	-	-2-4-4-2-	-3-	-	-	-	3.20												
35-35.1864-108.2756-2-15-						0-N08140-06/01/76-16-	23-	-	-	-	-	-		12-1-3-5-6-	-1-	-2-4-4-2-2-	-3-	-	-	-	4.00												
35-35.1875-108.2744-2-15-						0-N08141-06/01/76-16-	23-	-	-	-	-	-		9-1-3-3-3-	-1-	-2-3-3-3-2-	-3-	-	-	-	2.00												
35-35.1733-108.2342-2-15-						0-N08142-06/01/76-18-	23-	-C-	-	-	-	-		6-1-3-6-6-	-1-	-1-4-4-3-2-	-3-	-	-	-	2.80												
35-35.1519-108.1917-2-15-						0-N08143-06/01/76-18-	25-	-C-	-	-	-	-		12-4-4-4-4-	-1-	-1-	-1-3-3-	-3-	-	-	-	3.20												
35-35.1489-108.1933-2-12-						0-N08144-06/01/76-18-	23-	-23.5-C-	-	-	9.8-	135-		18-4-4-5-6-1-2-2-3-4-3-3-3-			-3-	-	-	-	3.20												
35-35.1339-108.1689-2-11-						0-N08145-06/01/76-19-	20-	-15.0-	-	-	6.6-	129-		6-1-6-5-6-1-3-2-		-4-4-3-3-	-3-	-	-	-	3.10												
35-35.1325-108.1733-2-15-						0-N08146-06/01/76-19-	18-	-C-	-	-	-	-		15-1-6-2-4-	-1-	-2-	-	-3-2-	-3-	-	-	3.00												
35-35.1122-108.1528-2-15-						0-N08147-06/02/76-10-	25-	-	-	-	-	-		21-1-3-5-6-	-1-	-2-1-3-3-1-	-1-	-	-	-	2.60												
35-35.1206-108.1500-2-15-						0-N08148-06/02/76-11-	25-	-	-	-	-	-		9-1-3-3-4-	-1-	-2-1-3-3-1-	-1-	-	-	-	2.60												
35-35.1206-108.1578-2-15-						0-N08149-06/02/76-12-	25-	-C-	-	-	-	-		12-1-6-5-6-	-1-	-1-4-3-2-1-	-1-	-	-	-	2.80												
35-35.1803-108.3119-2-15-						0-N08150-06/02/76-12-	25-	-C-	-	-	-	-		12-2-4-5-6-	-1-	-1-1-4-3-2-	-3-	-	-	-	3.40												
35-35.2158-108.2883-2-99-						0-N08151-06/02/76-14-	26-	-C-	-	-	-	-		6-1-7-4-6-	-1-	-	-1-3-4-2-	-3-	-	-	-	2.40												
35-35.2394-108.3375-2-11-						0-N08152-06/02/76-14-	22-	9.8-	-	-	7.1-	430-		6-1-3-6-6-3-3-2-		-2-4-4-2-	-3-	-	-	-	2.50												
35-35.2678-108.3458-2-11-						0-N08153-06/02/76-15-	25-	-C-	-	-	-	-		3-1-3-5-6-	-2-	-	-1-3-2-2-	-3-	-	-	-	2.10												
35-35.2728-108.3347-2-12-						0-N08154-06/02/76-15-	24-	-25.1-	-	-	8.0-	620-		12-1-3-5-6-1-2-1-2-1-3-2-2-			-3-	-	-	-	2.60												
35-35.3050-108.3253-2-15-						0-N08155-06/02/76-16-	25-	-	-	-	-	-		6-1-3-5-6-	-1-	-2-4-3-4-2-	-3-	-	-	-	2.50												
35-35.2978-108.6464-2-15-						0-N08156-05/31/76-17-	22-	-	-	-	-	-		35-1-6-4-6-	-1-	-2-3-2-2-2-	-	-	-	-	3.10												
35-35.2639-108.6175-2-15-						0-N08158-05/31/76-18-	22-	-C-	-	-	-	-		9-1-6-4-6-	-1-	-2-4-2-2-2-	-9-	-	-	-	4.30												
35-35.2633-108.6244-2-15-						0-N08159-05/31/76-18-	22-	-C-	-	-	-	-		25-1-6-7-6-	-1-	-2-4-2-3-2-	-1-	-	-	-	3.60												
35-35.2817-108.5533-2-11-						0-N08160-06/01/76- 9-	14-	9.0-C-	-	-	7.4-	600-		-1-1-4-6-2-2-1-		-4-3-2-1-	-9-	-	-	-	1.70												
35-35.2833-108.5517-2-12-						0-N08161-06/01/76- 9-	14-	9.3-C-	-	-	-	-		11-1-1-7-6-1-2-5-2-2-2-2-1-			-9-	-	-	-	2.80												
35-35.3297-108.5736-2-11-						0-N08162-06/01/76-10-	17-	9.9-C-	-	-	7.3-	2225-		9-1-6-4-6-2-2-1-		-1-3-2-1-	-1-	-	-	-	1.00												
35-35.2811-108.5644-2-12-						0-N08164-06/01/76-11-	22-	-C-	-	-	-	-		7-1-6-6-6-1-2-2-3-4-3-2-2-			-9-	-	-	-	3.10												
35-35.2814-108.5739-2-15-						0-N08166-06/01/76-11-	21-	-C-	-	-	-	-		23-1-6-7-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	3.20												
35-35.1672-108.4992-2-15-						0-N08167-06/01/76-13-	26-	-C-	-	-	-	-		21-1-6-7-6-	-1-	-2-1-3-2-2-	-1-	-	-	-	2.60												
35-35.1544-108.0017-2-15-						0-N08169-05/30/76-11-	24-	-	-	-	-	-		3-3-8-5-8-	-1-	-	-1-3-3-2-	-3-	-	-	-	2.80												
35-35.1831-108.0000-2-15-						0-N08170-05/30/76-12-	20-	-	-	-	-	-		7-1-1-5-6-	-1-	-	-1-3-3-2-	-3-	-	-	-	2.70												
35-35.1917-108.0272-2-15-						0-N08171-05/30/76-12-	19-	-	-	-	-	-		14-1-1-5-6-	-1-	-	-1-3-3-2-	-3-	-	-	-	2.80												
35-35.1258-108.0508-2-15-						0-N08173-05/30/76-13-	28-	-	-	-	-	-		28-3-8-5-6-	-1-	-	-1-4-3-2-	-1-	-	-	-	3.10												
35-35.1319-108.0519-2-15-						0-N08174-05/30/76-14-	21-	-C-	-	-	-	-		14-3-8-3-6-	-1-	-	-1-4-3-2-	-9-	-	-	-	3.20												
35-35.1603-108.1092-2-15-						0-N08175-05/30/76-14-	22-	-	-	-	-	-		14-1-1-5-7-	-1-	-	-4-4-2-2-	-3-	-	-	-	3.80												
35-35.1008-108.0497-2-11-						0-N08178-05/30/76-15-	22-	-21.0-C-	-	-	-	-		21-3-8-5-8-2-3-1-		-1-3-3-2-	-3-	-	-	-	3.20												
35-35.1011-108.0519-2-15-						0-N08179-05/30/76-16-	22-	-C-	-	-	-	-		10-3-4-3-4-	-1-	-	-1-3-4-2-	-1-	-	-	-	3.00												
35-35.0942-108.0639-2-15-						0-N08180-05/30/76-16-	23-	-	-	-	-	-		0-3-1-3-6-	-1-	-	-3-5-3-2-	-3-	-	-	-	4.10												
35-35.0839-108.0656-2-15-						0-N08181-05/30/76-16-	24-	-	-	-	-	-		10-1-6-3-6-	-1-	-	-4-3-4-2-	-3-	-	-	-	3.30												
35-35.2167-108.0450-2-15-						0-N08183-05/31/76-13-	28-	-	-	-	-	-		8-1-6-5-6-	-1-	-	-1-3-4-2-	-3-	-	-	-	1.70												
35-35.2328-108.0131-2-15-						0-N08185-05/31/76-14-	31-	-	-	-	-	-		14-1-1-5-1-	-1-	-	-4-2-2-2-	-3-	-	-	-	2.20												
35-35.1778-108.4494-2-15-						0-N08186-06/01/76-14-	29-	-	-	-	-	-		9-1-6-4-6-	-1-	-1-3-2-1-2-	-1-	-	-	-	2.40												
35-35.1856-108.4703-2-15-						0-N08187-06/01/76-15-	28-	-	-	-	-	-		2-1-1-4-1-	-1-	-3-3-3-2-2-	-1-	-	-	-	1.60												
35-35.1708-108.4094-2-15-						0-N08190-06/01/76-15-	22-	-	-	-	-	-		14-1-4-4-1-	-1-	-2-1-3-2-2-	-1-	-	-	-	3.00												

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

(2)

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
35-35.3328-108.6342-2-11-						0-N08122	-5	-5	-5	28	-20	-15	11	-10	-15	2	20
35-35.0419-108.4789-2-15-						0-N08125	-5	6	-5	23	-20	-15	7	-10	-15	1	16
35-35.0314-108.4656-2-15-						0-N08126	-5	-5	-5	31	-20	-15	5	-10	-15	1	21
35-35.0303-108.4669-2-15-						0-N08127	-5	8	-5	33	-20	17	12	-10	-15	2	17
35-35.0356-108.4311-2-15-						0-N08130	-5	5	-5	30	-20	-15	12	-10	-15	2	22
35-35.0347-108.4306-2-15-						0-N08131	-5	-5	-5	35	-20	-15	8	-10	-15	2	34
35-35.0092-108.3214-2-15-						0-N08134	-5	6	-5	15	-20	-15	8	-10	-15	1	22
35-35.0111-108.0450-2-15-						0-N08136	-5	7	-5	26	-20	31	8	-10	-15	2	45
35-35.2306-109.3525-2-99-						0-N08137	-5	-5	-5	19	-20	-15	6	-10	-15	1	19
35-35.2625-108.3631-2-99-						0-N08138	-5	5	-5	18	-20	16	-5	-10	-15	1	18
35-35.1914-108.2911-2-99-						0-N08139	-5	-5	-5	22	-20	-15	8	-10	-15	2	31
35-35.1864-108.2756-2-15-						0-N08140	-5	7	-5	20	-20	-15	8	-10	-15	2	36
35-35.1875-108.2744-2-15-						0-N08141	-5	5	-5	14	-20	-15	5	-10	-15	1	15
35-35.1733-108.2342-2-15-						0-N08142	-5	-5	-5	21	-20	20	6	-10	-15	1	23
35-35.1519-108.1917-2-15-						0-N08143	-5	-5	-5	21	-20	18	-5	-10	-15	1	17
35-35.1489-108.1933-2-12-						0-N08144	-5	-5	-5	29	-20	-15	10	-10	-15	2	31
35-35.1339-108.1689-2-11-						0-N08145	-5	-5	-5	30	-20	-15	-5	-10	-15	2	31
35-35.1325-108.1733-2-15-						0-N08146	-5	-5	-5	20	-20	-15	5	-10	-15	2	34
35-35.1122-108.1528-2-15-						0-N08147	-5	-5	-5	20	-20	-15	-5	-10	-15	1	23
35-35.1206-108.1500-2-15-						0-N08148	-5	6	-5	15	-20	19	6	-10	16	3	64
35-35.1206-108.1578-2-15-						0-N08149	-5	-5	-5	27	-20	-15	-5	-10	-15	2	39
35-35.1803-109.3119-2-15-						0-N08150	-5	-5	-5	21	-20	23	15	-10	-15	2	43
35-35.2158-108.2883-2-99-						0-N08151	-5	-5	-5	28	-20	-15	32	16	-15	1	26
35-35.2394-108.3375-2-11-						0-N08152	-5	-5	-5	-10	-20	-15	5	-10	-15	1	22
35-35.2678-108.3458-2-11-						0-N08153	-5	-5	-5	19	-20	-15	-5	-10	-15	2	21
35-35.2728-109.3347-2-12-						0-N08154	-5	6	-5	23	-20	19	-5	-10	-15	1	26
35-35.3050-108.3253-2-15-						0-N08155	-5	5	-5	20	-20	-15	-5	-10	-15	2	31
35-35.2978-108.6464-2-15-						0-N08156	-5	-5	-5	22	-20	-15	13	-10	-15	2	34
35-35.2639-109.6175-2-15-						0-N08158	-5	9	-5	15	-20	-15	9	-10	-15	2	26
35-35.2633-108.6244-2-15-						0-N08159	-5	8	-5	18	-20	-15	13	-10	-15	2	27
35-35.2817-108.5533-2-11-						0-N08160	-5	-5	-5	23	-20	-15	10	-10	-15	1	23
35-35.2833-108.5517-2-12-						0-N08161	-5	-5	-5	29	-20	22	13	-10	-15	2	25
35-35.3297-108.5736-2-11-						0-N08162	-5	-5	-5	17	-20	-15	-5	-10	-15	1	17
35-35.2811-108.5644-2-12-						0-N08164	-5	5	-5	35	-20	-15	12	-10	-15	2	44
35-35.2814-108.5739-2-15-						0-N08166	-5	7	-5	30	-20	-15	13	-10	-15	2	34
35-35.1672-108.4992-2-15-						0-N08167	-5	-5	-5	20	-20	-15	5	-10	-15	2	32
35-35.1544-108.0017-2-15-						0-N08169	-5	8	-5	31	-20	-15	14	-10	-15	2	34
35-35.1831-108.0000-2-15-						0-N08170	-5	-5	-5	13	-20	-15	10	-10	-15	1	23
35-35.1917-108.0272-2-15-						0-N08171	-5	6	-5	10	-20	-15	13	-10	-15	1	20
35-35.1258-108.0508-2-15-						0-N08173	-5	-5	-5	86	-20	35	11	-10	-15	2	39
35-35.1319-108.0519-2-15-						0-N08174	-5	-5	-5	50	-20	15	13	-10	-15	2	41
35-35.1603-108.1092-2-15-						0-N08175	-5	-5	-5	54	-20	-15	9	-10	-15	2	45
35-35.1008-108.0497-2-11-						0-N08178	-5	6	-5	59	-20	39	12	-10	-15	2	97
35-35.1011-108.0519-2-15-						0-N08179	-5	7	-5	63	-20	32	11	-10	-15	2	53
35-35.0942-109.0639-2-15-						0-N08180	-5	8	-5	82	-20	47	19	-10	-15	2	48
35-35.0839-108.0656-2-15-						0-N08181	-5	-5	-5	92	-20	35	14	-10	-15	2	50
35-35.2167-108.0450-2-15-						0-N08183	-5	-5	-5	21	-20	-15	5	-10	-15	1	21
35-35.2328-108.0131-2-15-						0-N08185	-5	-5	-5	27	-20	-15	-5	-10	-15	1	21
35-35.1778-108.4494-2-15-						0-N08186	-5	5	-5	23	-20	18	11	-10	-15	2	31
35-35.1856-108.4703-2-15-						0-N08187	-5	-5	-5	12	-20	-15	-5	-10	-15	1	16
35-35.1708-108.4094-2-15-						0-N08190	-5	9	5	19	-20	26	6	-10	-15	2	22

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-	35.3328-	108.6342-	2-	11-	0-	N08122	57980	-0.06	632	5655	61	-70	9.9	33	4.9	4	1.5	19780	9.5	16870	29	0.3
35-	35.0419-	108.4789-	2-	15-	0-	N08125	60340	-0.06	537	3608	67	-60	8.9	28	5.0	5	1.5	16020	10.2	16320	26	0.4
35-	35.0314-	108.4656-	2-	15-	0-	N08126	64140	-0.07	552	3893	64	-53	9.8	28	5.5	5	1.4	19680	9.6	18810	26	0.4
35-	35.0303-	108.4669-	2-	15-	0-	N08127	83000	-0.08	466	4999	99	-52	14.3	59	8.2	6	2.2	31930	7.4	18150	42	0.5
35-	35.0356-	108.4311-	2-	15-	0-	N08130	85400	-0.06	437	6230	59	-44	8.5	33	7.1	6	1.4	25460	5.5	19030	29	0.3
35-	35.0347-	108.4306-	2-	15-	0-	N08131	75850	-0.06	437	6321	79	-62	12.9	59	7.7	6	2.0	27650	6.2	16670	36	0.5
35-	35.0092-	108.3214-	2-	15-	0-	N08134	45360	-0.04	461	3388	55	-52	6.2	29	3.8	5	1.3	13540	10.0	15760	27	0.4
35-	35.0111-	108.0450-	2-	15-	0-	N08136	61870	-0.05	762	8866	40	-72	8.3	23	5.2	7	1.2	14220	4.2	20150	23	0.3
35-	35.2306-	108.3525-	2-	99-	0-	N08137	36040	-0.04	345	-421	25	-60	2.6	33	2.4	3	0.8	7312	9.6	17180	13	0.2
35-	35.2625-	108.3631-	2-	99-	0-	N08138	33200	-0.03	354	-476	28	-62	3.1	32	2.8	3	0.7	7478	7.7	14470	13	0.2
35-	35.1914-	108.2911-	2-	99-	0-	N08139	59770	-0.06	883	4490	127	-86	9.2	40	14.4	10	3.0	20530	10.7	24090	64	0.7
35-	35.1864-	108.2756-	2-	15-	0-	N08140	52780	-0.04	630	4251	44	-83	5.6	24	4.9	7	0.8	8733	7.1	14660	20	0.3
35-	35.1875-	108.2744-	2-	15-	0-	N08141	33300	-0.04	373	4610	32	-61	5.4	35	3.3	3	0.8	10710	12.0	16420	18	0.3
35-	35.1733-	108.2342-	2-	15-	0-	N08142	48690	-0.06	464	17000	64	-75	8.3	53	24.6	5	1.7	17510	10.1	14860	27	0.4
35-	35.1519-	108.1917-	2-	15-	0-	N08143	36310	-0.04	521	3433	55	-62	7.1	33	3.6	6	1.6	12610	35.8	15750	24	0.6
35-	35.1489-	108.1933-	2-	12-	0-	N08144	61980	-0.04	491	5310	35	-62	3.3	19	5.4	7	0.8	8794	4.5	17090	18	0.2
35-	35.1339-	108.1689-	2-	11-	0-	N08145	73040	-0.06	767	8168	81	-58	5.6	34	8.0	8	2.0	20540	7.2	17120	43	0.4
35-	35.1325-	108.1733-	2-	15-	0-	N08146	52900	-0.05	427	5283	66	-61	6.1	40	10.2	6	1.8	19050	13.9	17250	32	0.5
35-	35.1122-	108.1528-	2-	15-	0-	N08147	40870	-0.04	329	2576	47	-69	6.6	64	3.1	4	1.2	15040	20.7	17400	22	0.4
35-	35.1206-	108.1500-	2-	15-	0-	N08148	56630	-0.05	249	55380	39	-57	4.8	24	36.3	6	0.7	9077	4.9	19800	15	0.3
35-	35.1206-	108.1578-	2-	15-	0-	N08149	48540	-0.05	359	8382	57	-49	8.6	38	20.0	7	1.5	18310	11.1	13040	36	0.5
35-	35.1803-	108.3119-	2-	15-	0-	N08150	60040	-0.07	408	13030	79	-71	10.7	76	76.8	6	1.7	25640	14.4	20240	38	0.6
35-	35.2158-	108.2883-	2-	99-	0-	N08151	41590	-0.05	357	14920	45	-64	9.4	64	4.0	5	1.3	19650	10.5	11930	23	0.4
35-	35.2394-	108.3375-	2-	11-	0-	N08152	40070	-0.03	435	3223	23	-63	2.2	18	1.3	5	0.5	5550	6.4	17750	11	0.2
35-	35.2678-	108.3458-	2-	11-	0-	N08153	42140	-0.04	390	3979	36	-65	5.8	37	3.6	5	1.0	12050	9.6	14430	19	0.3
35-	35.2728-	108.3347-	2-	12-	0-	N08154	49720	-0.04	426	5791	63	-73	7.3	58	4.7	6	1.6	17820	14.3	16790	28	0.6
35-	35.3050-	108.3253-	2-	15-	0-	N08155	47090	-0.04	437	8560	53	-67	7.3	49	5.7	5	1.4	16580	13.7	18230	22	0.4
35-	35.2978-	108.6464-	2-	15-	0-	N08156	61060	-0.04	729	7468	31	-70	4.5	20	2.8	5	0.8	8665	5.6	19900	13	0.2
35-	35.2639-	108.6175-	2-	15-	0-	N08158	60010	-0.05	734	4644	89	-75	9.3	42	4.8	7	1.8	19750	27.4	22420	41	0.7
35-	35.2633-	108.6244-	2-	15-	0-	N08159	62470	-0.05	737	3792	72	-66	10.5	38	6.1	6	1.8	19280	13.4	23360	35	0.5
35-	35.2817-	108.5533-	2-	11-	0-	N08160	44680	-0.03	345	18720	46	-63	6.1	38	3.1	3	1.0	18070	6.5	14400	18	0.3
35-	35.2833-	108.5517-	2-	12-	0-	N08161	62220	-0.07	400	28750	59	-49	11.9	42	6.2	7	1.7	24810	7.6	15110	31	0.4
35-	35.3297-	108.5736-	2-	11-	0-	N08162	29040	-0.02	417	10670	21	-52	2.8	25	2.2	2	0.4	9221	6.7	15130	10	0.2
35-	35.2811-	108.5644-	2-	12-	0-	N08164	81700	-0.08	622	26670	88	167	14.5	64	9.0	7	2.3	33320	6.6	20220	41	0.5
35-	35.2814-	108.5739-	2-	15-	0-	N08166	67920	-0.04	709	6505	28	-65	4.7	11	3.1	5	0.7	9392	2.9	21320	16	0.2
35-	35.1672-	108.4992-	2-	15-	0-	N08167	54440	-0.05	484	11180	48	-51	6.4	25	4.5	4	1.2	16300	6.0	20410	25	0.3
35-	35.1544-	108.0017-	2-	15-	0-	N08169	58130	-0.05	442	13470	66	-76	12.6	60	4.9	5	1.7	24700	11.5	16900	32	0.4
35-	35.1831-	108.0000-	2-	15-	0-	N08170	46780	-0.05	405	12050	57	-71	8.8	43	4.2	5	1.3	19990	11.0	12810	24	0.4
35-	35.1917-	108.0272-	2-	15-	0-	N08171	40290	-0.03	404	7440	24	-64	3.2	18	1.2	5	0.6	6452	6.5	14150	10	0.2
35-	35.1258-	108.0508-	2-	15-	0-	N08173	70290	-0.08	724	18010	79	-84	20.2	87	15.1	6	1.8	34300	8.4	19360	37	0.5
35-	35.1319-	108.0519-	2-	15-	0-	N08174	77950	-0.06	411	21490	72	-111	12.8	35	12.4	6	2.0	29600	12.5	20410	31	0.6
35-	35.1603-	108.1092-	2-	15-	0-	N08175	70790	-0.07	608	14940	80	-87	9.9	36	7.7	8	2.6	26560	10.0	18530	48	0.5
35-	35.1008-	108.0497-	2-	11-	0-	N08178	72260	-0.07	752	60270	44	-94	7.0	25	28.5	8	1.1	13600	4.1	22040	23	0.3
35-	35.1011-	108.0519-	2-	15-	0-	N08179	67120	-0.07	1117	23530	66	-89	15.4	63	15.1	5	1.8	29720	14.2	16950	29	0.3
35-	35.0942-	108.0639-	2-	15-	0-	N08180	69620	-0.08	543	33030	107	-99	23.5	127	13.6	7	2.5	45850	31.9	17300	42	0.7
35-	35.0839-	108.0656-	2-	15-	0-	N08181	76850	-0.09	540	25210	110	-112	28.2	96	20.9	6	2.7	48710	9.6	23160	46	0.6
35-	35.2167-	108.0450-	2-	15-	0-	N08183	35880	-0.03	349	20470	39	-56	3.9	38	3.5	3	0.9	11330	9.1	15630	15	0.3
35-	35.2328-	108.0131-	2-	15-	0-	N08185	39970	-0.05	518	32180	38	-53	6.2	33	3.1	4	1.0	12700	9.0	15510	18	0.3
35-	35.1778-	108.4494-	2-	15-	0-	N08186	67560	-0.06	555	21110	75	-81	17.7	60	4.3	5	1.9	32280	8.9	8939	32	0.4
35-	35.1856-	108.4703-	2-	15-	0-	N08187	37610	-0.04	402	6809	49	-55	6.2	35	2.4	3	1.1	14450	7.4	10090	20	0.3
35-	35.1708-	108.4094-	2-	15-	0-	N08190	66150	-0.04	667	15260	35	-36	5.8	23	2.5	5	0.8	15950	7.1	13420	16	0.2

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
35-35.3328-108.6342-2-11-						0-N08122	7757	360	8820	67	2	7.3	4.4	-184	-1	-1	10.9	4323	63	4.3	-24	0.266
35-35.0419-108.4789-2-15-						0-N08125	6721	267	7254	79	-1	7.1	5.0	-159	-1	-1	10.0	3760	49	4.2	88	0.320
35-35.0314-108.4656-2-15-						0-N08126	8034	257	6616	75	-2	8.0	5.0	-171	-1	-1	10.3	3632	55	3.3	61	0.311
35-35.0303-108.4669-2-15-						0-N08127	12200	356	5236	87	-2	13.2	6.9	-195	-1	-1	16.2	4884	82	5.3	94	0.235
35-35.0356-108.4311-2-15-						0-N08130	15580	221	3353	53	-1	10.1	5.1	-159	-1	-1	12.1	4453	92	2.6	95	0.256
35-35.0347-108.4306-2-15-						0-N08131	13220	306	6042	73	-1	11.0	6.8	-187	-1	-1	12.4	4840	69	4.5	124	0.274
35-35.0092-108.3214-2-15-						0-N08134	7091	221	4752	35	-1	5.4	4.8	-139	-1	-1	9.8	3782	42	3.7	43	0.276
35-35.0111-108.0450-2-15-						0-N08136	11380	618	9290	-18	-1	4.8	3.3	-263	-1	-1	5.0	5160	66	2.0	41	0.560
35-35.2306-108.3525-2-99-						0-N08137	-2358	207	10240	-14	-1	2.8	2.1	-173	-1		4.3	3387	24	1.8		0.395
35-35.2625-108.3631-2-99-						0-N08138	3756	156	9838	33	-1	2.9	2.4	-140	-1		3.9	2705	22	1.8	40	0.385
35-35.1914-108.2911-2-99-						0-N08139	9389	462	10700	90	-1	8.5	12.3	-233	-1	-1	13.6	3597	49	5.4	107	0.235
35-35.1864-108.2756-2-15-						0-N08140	9832	733	10770	31	-1	3.0	2.7	-288	-1		4.5	4200	56	2.4		0.889
35-35.1875-108.2744-2-15-						0-N08141	6181	545	8060	31	-1	3.3	2.5	-215	-1		5.1	3443	35	1.9	57	0.392
35-35.1733-108.2342-2-15-						0-N08142	11810	219	8990	58		7.0	5.4	-189	-1	-1	8.1	4058	52	3.2	71	0.346
35-35.1519-108.1917-2-15-						0-N08143	5477	408	7775	62	1	4.8	4.3	-173	-1	-1	9.2	3802	34	5.6	55	0.348
35-35.1489-108.1933-2-12-						0-N08144	11840	217	8383	30	-1	3.6	3.1	-186	-1	1	4.9	4298	54	2.2	-59	0.653
35-35.1339-108.1689-2-11-						0-N08145	10730	165	7009	83	-1	8.5	6.4	-169	-1	-1	11.9	4361	59	3.6	69	0.261
35-35.1325-108.1733-2-15-						0-N08146	7960	247	7156	71	-1	7.1	6.2	-157	-1	-1	10.6	3998	51	4.2	57	0.283
35-35.1122-108.1528-2-15-						0-N08147	8615	303	10250	49	-1	5.1	4.2	-170	-1	-1	7.0	3166	40	3.4	39	0.371
35-35.1206-108.1500-2-15-						0-N08148	20810	395	5416	44	-1	4.0	3.0	-205	-1	-1	6.1	3453	50	2.3	-18	0.426
35-35.1206-108.1578-2-15-						0-N08149	11710	323	5817	57	-1	6.8	5.9	-173	-1	-1	9.5	4535	51	4.5	48	0.295
35-35.1803-108.3119-2-15-						0-N08150	16140	570	6851	102	-1	9.2	6.7	-225	-1	-1	12.0	4591	77	3.9	51	0.283
35-35.2158-108.2883-2-99-						0-N08151	8762	557	4945	46	-1	6.5	4.8	-209	-1	-1	7.6	3016	52	2.7	83	0.316
35-35.2394-108.3375-2-11-						0-N08152	7234	102	11320	27	-1	2.1	1.4	-157	-1		2.9	3761	32	2.4	-14	0.862
35-35.2678-108.3458-2-11-						0-N08153	6577	229	11190	-18	-1	4.3	2.8	-176	-1	-1	5.0	3771	38	2.1	30	0.420
35-35.2728-108.3347-2-12-						0-N08154	10670	274	11400	54	-1	6.9	5.1	-179	-1	-1	9.0	4718	45	4.1	59	0.289
35-35.3050-108.3253-2-15-						0-N08155	13090	238	8857	47	-1	6.2	5.0	-162	-1	-1	7.8	3635	46	4.4	62	0.321
35-35.2978-108.6464-2-15-						0-N08156	8536	418	9513	27	-1	3.4	2.1	-229	-1		4.3	3929	64	1.5		0.721
35-35.2639-108.6175-2-15-						0-N08158	6739	364	10470	68	-1	7.5	6.3	-193	2	-1	14.0	4920	59	5.7	73	0.307
35-35.2633-108.6244-2-15-						0-N08159	9309	239	7862	68	-1	8.3	6.2	-164	-1	-1	12.9	4565	62	4.2	92	0.279
35-35.2817-108.5533-2-11-						0-N08160	15130	226	5408	-19	-1	6.1	3.2	-167	-1	-1	5.1	2696	52	1.5	-40	0.333
35-35.2833-108.5517-2-12-						0-N08161	18010	497	1971	50	-2	8.5	5.6	-239	-1	-1	10.0	5451	69	3.6	34	0.280
35-35.3297-108.5736-2-11-						0-N08162	6887	149	4037	45		2.7	1.7	-132	-1		3.1	1860	24	1.3	-32	0.323
35-35.2811-108.5644-2-12-						0-N08164	23520	581	5931	78	-2	12.1	8.8	-274	-1	-1	13.4	4224	92	3.9	144	0.231
35-35.2814-108.5739-2-15-						0-N08166	11320	324	8699	-15	-1	3.8	2.2	-208	-1	-1	4.8	3737	67	1.3	20	0.667
35-35.1672-108.4992-2-15-						0-N08167	9196	232	5876	59	-1	5.8	3.9	-164	-1	-1	9.0	3489	47	2.5	63	0.289
35-35.1544-108.0017-2-15-						0-N08169	17080	714	6762	57	-1	8.4	5.4	-258	-1	-1	9.6	4555	69	4.2	81	0.292
35-35.1831-108.0000-2-15-						0-N08170	12000	453	4501	54	-1	6.8	4.3	-205	-1	-1	8.6	3622	51	3.3	97	0.314
35-35.1917-108.0272-2-15-						0-N08171	8216	330	7817	29	-1	2.6	1.9	-202	-1		3.4	3643	47	1.8	-15	0.824
35-35.1258-108.0508-2-15-						0-N08173	25750	630	11680	109	-2	12.9	7.0	-288	-1	-1	9.5	6303	107	3.6	62	0.326
35-35.1319-108.0519-2-15-						0-N08174	13160	669	19820	76	-1	14.3	6.8	-274	-1	-1	13.2	4102	78	4.7	133	0.242
35-35.1603-108.1092-2-15-						0-N08175	11300	325	11700	106	-2	11.8	9.8	-210	-1	-1	13.9	4653	70	5.8	113	0.273
35-35.1008-108.0497-2-11-						0-N08178	20130	531	9134	69		5.1	3.8	-318	-1	-1	5.1	5186	103	2.7	-32	0.627
35-35.1011-108.0519-2-15-						0-N08179	17580	648	15510	84	-2	12.6	5.4	-280	-1	-1	8.6	5300	89	4.0	79	0.349
35-35.0942-108.0639-2-15-						0-N08180	33600	538	12210	83	-2	23.8	8.1	-291	-1	-1	16.3	7948	155	6.2	113	0.252
35-35.0839-108.0656-2-15-						0-N08181	29430	1019	12090	132	-2	19.7	9.5	-332	-2	-1	12.3	6945	125	4.6	180	0.268
35-35.2167-108.0450-2-15-						0-N08183	10720	209	5989	48	-1	3.9	3.2	-170	-1	-1	5.3	2465	36	1.8	56	0.321
35-35.2328-108.0131-2-15-						0-N08185	14750	370	5473	-17	-1	4.3	2.9	-193	-1		5.0	3190	44	1.7	40	0.440
35-35.1778-108.4494-2-15-						0-N08186	21300	1362	3499	52	-1	9.9	6.1	-348	-1	-1	12.1	3689	69	4.1	51	0.198
35-35.1856-108.4703-2-15-						0-N08187	15220	413	4447	-15	-1	4.6	3.8	-178	-1	-1	7.5	2209	38	2.1	61	0.213
35-35.1708-108.4094-2-15-						0-N08190	18140	431	1117	29	-1	4.4	2.9	-198	-1		6.1	4420	76	1.4	-19	0.492

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
35	35.1339	108.3967	2	15	0	N08192	06/01/76	16	27		C																							2.30
35	35.1314	108.3928	2	15	0	N08193	06/01/76	17	30																									2.40
35	35.2153	108.4211	2	11	0	N08195	06/02/76	9	17	6.8	C		7.5	375	14-1-6-6-6-2-2-1			-2-3-2-1-		-1-													3.00
35	35.2158	108.4172	2	15	0	N08196	06/02/76	10	15						4-1-6-4-6			-1-2-1-3-2-1		-1-													2.40
35	35.2194	108.4158	2	15	0	N08197	06/02/76	10	20						9-1-6-4-6			-1-2-1-3-2-1		-1-													2.60
35	35.2206	108.4175	2	15	0	N08198	06/02/76	10	22		C				4-1-6-4-6			-1-2-1-3-2-1		-1-													2.60
35	35.2433	108.4531	2	15	0	N08199	06/02/76	10	21						4-1-6-4-6			-1-2-1-3-2-1		-1-													2.10
35	35.2469	108.4914	2	15	0	N08200	06/02/76	10	24		C				4-1-6-4-6			-1-2-1-3-3-1		-9-													1.80
35	35.2722	108.5153	2	15	0	N08201	06/02/76	11	28		C				7-1-6-7-6			-1-2-1-3-4-2		-1-													2.30
35	35.2383	109.5200	2	12	0	N08202	06/02/76	14	26	29.0			8.3	400	4-1-6-4-6-3-2-4			-2-1-3-3-2		-1-													2.50
35	35.2450	108.5939	2	15	0	N08204	06/02/76	15	29		C				18-1-6-7-6			-1-3-3-1-2		-9-													3.80
35	35.2058	108.5817	2	15	0	N08205	06/02/76	15	29		C				4-1-6-4-6			-2-3-3-2-2		-1-													3.50
35	35.1292	108.5489	2	15	0	N08207	06/02/76	16	23		C				11-1-6-7-6			-4-3-2-2		-1-													3.80
35	35.1283	108.6078	2	15	0	N08208	06/02/76	16	26						23-1-6-4-6			-3-3-2-2		-1-													3.80
35	35.1644	108.5803	2	15	0	N08209	06/02/76	16	27		C				14-1-6-7-6			-3-3-2-2		-1-													6.30
35	35.2161	108.6233	2	15	0	N08210	06/02/76	16	29						7-1-6-4-6			-1-4-3-2-2		-1-													5.90
35	35.1458	108.6350	2	15	0	N08212	06/02/76	17	29		C				7-1-6-4-6			-3-3-2-2		-9-													3.90
35	35.1200	108.6469	2	15	0	N08214	06/03/76	10	26		C				7-1-6-7-6			-4-3-2-1		-9-													3.20
35	35.0725	108.5931	2	15	0	N08216	06/03/76	11	28		C				9-1-6-4-6			-2-3-3-2-2		-9-													3.60
35	35.1056	109.6894	2	15	0	N08219	06/03/76	12	26		C				4-1-6-7-6			-3-3-2-2		-9-													3.90
35	35.0483	108.6753	2	15	0	N08220	06/03/76	12	27		C				14-1-6-7-6			-1-3-2-2		-9-													3.40
35	35.0019	108.5919	2	15	0	N08222	06/03/76	13	26		C				23-1-6-7-6			-3-3-2-2		-9-													3.00
35	35.3456	108.2783	2	15	0	N08224	06/02/76	16	27		C				12-1-9-5-6			-2-1-2-2-2		-3-													2.40
35	35.3489	108.2803	2	15	0	N08225	06/02/76	17	27		C				18-1-1-5-6			-1-4-2-2-2		-3-													2.40
35	35.3064	108.2617	2	15	0	N08226	06/02/76	18	25						6-1-1-4-6			-2-1-3-3-2		-3-													3.10
35	35.3342	108.2556	2	15	0	N08227	06/02/76	19	26						12-1-1-5-6			-2-1-3-2-2		-3-													2.70
35	35.3289	108.2394	2	15	0	N08228	06/02/76	19	25						9-1-1-5-6			-2-1-3-3-2		-3-													2.60
35	35.2925	108.2606	2	15	0	N08230	06/02/76	20	24						6-1-7-5-6			-2-1-4-4-2		-1-													2.50
35	35.2769	108.2528	2	15	0	N08231	06/02/76	21	14		C				0-1-4-4-6			-2-1-4-4-1		-1-													2.10
35	35.1144	108.8178	2	15	0	N08238	07/07/76	13	28						6-1-4-5-4			-1-4-2-2-2		-3-													1.70
35	35.0944	108.7919	2	15	0	N08239	07/07/76	14	28						21-1-6-5-6			-1-4-3-2-2		-3-													1.50
35	35.0442	108.8175	2	15	0	N08240	07/07/76	14	28						18-1-6-5-6			-1-4-2-2-2		-3-													1.50
35	35.0453	108.8119	2	15	0	N08241	07/07/76	14	28						18-1-6-5-6			-1-4-3-2-2		-3-													1.30
35	35.0406	108.8219	2	15	0	N08242	07/07/76	14	29						18-1-5-6-5			-1-4-2-2-2		-3-													1.80
35	35.0450	108.8497	2	15	0	N08243	07/07/76	14	28		C				6-1-7-4-7			-1-4-2-2-2		-9-													2.10
35	35.3075	108.7742	2	15	0	N08244	07/08/76	9	22						12-1-6-5-6			-1-3-3-2-1		-1-													4.10
35	35.2742	108.8300	2	15	0	N08245	07/08/76	10	26						6-1-6-5-6			-1-4-3-3-1		-3-													3.80
35	35.2725	108.8300	2	15	0	N08246	07/08/76	10	26						6-1-5-6-5			-1-3-3-3-1		-3-													3.80
35	35.2728	108.8408	2	15	0	N08247	07/08/76	10	26						15-1-6-5-6			-1-1-2-3-1		-3-													3.10
35	35.2717	108.8417	2	15	0	N08248	07/08/76	14	26						6-1-6-5-6			-1-1-2-2-1		-3-													3.90
35	35.2778	108.8606	2	15	0	N08249	07/08/76	10	26						6-1-6-5-6			-1-3-3-2-1		-3-													2.80
35	35.2731	108.7767	2	15	0	N08250	07/08/76	11	26						12-1-5-6-5			-1-4-3-2-1		-3-													2.20
35	35.3458	108.8083	2	15	0	N08251	07/08/76	12	27						9-1-6-5-6			-1-1-3-3-1		-3-													3.70
35	35.2594	108.9206	2	15	0	N08252	07/14/76	14	28						13-1-6-5-6			-2-4-2-3-2		-3-													2.30
35	35.2700	108.9356	2	15	0	N08253	07/14/76	14	29						7-1-6-5-6			-3-3-2-3-2		-3-													2.50
35	35.3719	108.9503	2	15	0	N08257	07/14/76	15	28						17-1-1-5-6			-2-4-3-2-4		-3-													1.70
35	35.3536	108.9172	2	15	0	N08258	07/14/76	15	28						13-1-6-5-6			-2-3-3-3-3		-1-													3.70
35	35.3397	108.8889	2	15	0	N08259	07/14/76	16	27						7-1-6-5-6			-2-4-2-4-3		-3-													2.90
35	35.3389	108.8881	2	15	0	N08260	07/14/76	16	28						7-1-6-5-6			-2-4-2-4-3		-3-													3.10
35	35.3344	108.9033	2	15	0	N08261	07/14/76	16	27						11-1-6-5-6			-2-3-2-3-2		-3-													3.00
35	35.2522	108.6736	2	15	0	N08262	07/14/76	17	27						11-1-6-4-6			-3-1-3-3-2		-3-													3.10

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

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
35-35.1339-108.3967-2-15-						0-N08192	-5	7	-5	29	-20	23	8	-10	-15	1	27
35-35.1314-108.3928-2-15-						0-N08193	-5	5	-5	28	-20	16	5	-10	-15	1	22
35-35.2153-108.4211-2-11-						0-N08195	-5	-5	-5	28	-20	-15	5	-10	-15	-1	14
35-35.2158-108.4172-2-15-						0-N08196	-5	8	-5	21	-20	15	8	-10	-15	1	24
35-35.2194-108.4158-2-15-						0-N08197	-5	-5	-5	26	-20	-15	7	-10	-15	1	20
35-35.2206-108.4175-2-15-						0-N08198	-5	6	-5	13	-20	-15	5	-10	-15	1	16
35-35.2433-108.4531-2-15-						0-N08199	-5	9	-5	23	-20	23	7	-10	-15	1	18
35-35.2469-108.4914-2-15-						0-N08200	-5	5	-5	18	-20	18	5	-10	-15	1	19
35-35.2722-108.5153-2-15-						0-N08201	-5	5	-5	16	-20	-15	7	-10	-15	-1	18
35-35.2383-108.5200-2-12-						0-N08202	-5	-5	-5	24	-20	20	-5	-10	-15	1	23
35-35.2450-108.5939-2-15-						0-N08204	-5	-5	-5	35	-20	-15	12	-10	-15	2	34
35-35.2058-108.5817-2-15-						0-N08205	-5	-5	-5	24	-20	-15	5	-10	-15	2	22
35-35.1292-108.5489-2-15-						0-N08207	-5	9	-5	25	-20	-15	12	-10	-15	2	29
35-35.1283-108.6078-2-15-						0-N08208	-5	-5	-5	27	-20	-15	11	-10	-15	2	28
35-35.1644-108.5803-2-15-						0-N08209	-5	7	-5	18	-20	-15	9	-10	-15	2	21
35-35.2161-108.6233-2-15-						0-N08210	-5	6	-5	18	-20	17	5	-10	-15	1	15
35-35.1458-108.6350-2-15-						0-N08212	-5	-5	-5	-10	-20	-15	5	-10	-15	1	15
35-35.1200-108.6469-2-15-						0-N08214	-5	5	-5	31	-20	-15	5	-10	-15	2	20
35-35.0725-108.5931-2-15-						0-N08216	-5	-5	-5	14	-20	-15	10	-10	-15	1	13
35-35.1056-108.6894-2-15-						0-N08219	-5	-5	-5	29	-20	-15	13	-10	-15	3	44
35-35.0483-108.6753-2-15-						0-N08220	-5	6	-5	14	-20	-15	5	-10	-15	2	21
35-35.0019-108.5919-2-15-						0-N08222	-5	-5	-5	17	-20	-15	5	-10	-15	2	19
35-35.3456-108.2783-2-15-						0-N08224	-5	-5	-5	20	-20	-15	-5	-10	-15	2	15
35-35.3489-108.2803-2-15-						0-N08225	-5	7	-5	21	-20	18	16	-10	-15	2	25
35-35.3064-108.2617-2-15-						0-N08226	-5	-5	-5	25	-20	19	14	-10	-15	3	23
35-35.3342-108.2556-2-15-						0-N08227	-5	6	-5	22	-20	19	8	-10	-15	1	15
35-35.3289-108.2394-2-15-						0-N08228	-5	6	-5	28	-20	19	11	-10	-15	2	26
35-35.2925-108.2606-2-15-						0-N08230	-5	-5	-5	27	-20	-15	18	-10	-15	1	20
35-35.2769-108.2528-2-15-						0-N08231	-5	-5	-5	11	-20	-15	-5	-10	-15	-1	8
35-35.1144-108.8178-2-15-						0-N08238	-5	-5	-5	23	-20	-15	6	-10	-15	2	25
35-35.0944-108.7919-2-15-						0-N08239	-5	5	-5	18	-20	-15	7	-10	-15	-1	17
35-35.0442-108.8175-2-15-						0-N08240	-5	-5	-5	20	-20	-15	-5	-10	-15	1	13
35-35.0453-108.8119-2-15-						0-N08241	-5	-5	-5	15	-20	-15	8	-10	-15	1	16
35-35.0406-108.8219-2-15-						0-N08242	-5	-5	-5	23	-20	20	10	-10	-15	2	33
35-35.0450-108.8497-2-15-						0-N08243	-5	-5	-5	13	-20	-15	-5	-10	-15	1	15
35-35.3075-108.7742-2-15-						0-N08244	-5	6	-5	23	-20	18	-5	-10	-15	1	21
35-35.2742-108.8300-2-15-						0-N08245	-5	11	-5	16	-20	-15	8	-10	-15	1	16
35-35.2725-108.8300-2-15-						0-N08246	-5	-5	-5	22	-20	-15	9	-10	-15	1	19
35-35.2728-108.8408-2-15-						0-N08247	-5	6	-5	34	-20	-15	5	-10	-15	1	23
35-35.2717-108.8417-2-15-						0-N08248	-5	-5	-5	14	-20	-15	14	-10	-15	2	29
35-35.2778-108.8606-2-15-						0-N08249	-5	8	-5	25	-20	-15	5	-10	-15	2	34
35-35.2731-108.7767-2-15-						0-N08250	-5	-5	-5	27	-20	-15	-5	-10	-15	1	19
35-35.3458-108.8083-2-15-						0-N08251	-5	8	-5	20	-20	-15	16	-10	-15	1	22
35-35.2594-108.9206-2-15-						0-N08252	-5	-5	-5	21	-20	-15	7	-10	-15	1	15
35-35.2700-108.9356-2-15-						0-N08253	-5	-5	-5	23	-20	-15	11	-10	-15	1	15
35-35.3719-108.9503-2-15-						0-N08257	-5	6	-5	17	-20	-15	-5	-10	-15	-1	12
35-35.3536-108.9172-2-15-						0-N08258	-5	-5	-5	29	-20	-15	5	-10	-15	2	28
35-35.3397-108.8889-2-15-						0-N08259	-5	6	-5	20	-20	16	-5	-10	-15	1	21
35-35.3389-108.8881-2-15-						0-N08260	-5	6	-5	19	-20	-15	-5	-10	-15	1	21
35-35.3344-108.9033-2-15-						0-N08261	-5	7	-5	37	-20	-15	10	-10	-15	2	35
35-35.2522-108.6736-2-15-						0-N08262	-5	5	-5	32	-20	-15	13	-10	-15	1	18

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

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Concentrations reported in weight parts per million (ppm)												
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
35-35.1339-108.3967-2-15-						0-N08192	57560	-0.05	522	15980	46	-65	9.1	37	3.3	5	1.3	19200	6.4	10890	27	0.3
35-35.1314-108.3928-2-15-						0-N08193	57550	-0.05	462	13130	59	-69	11.4	53	4.0	4	1.5	24800	9.9	10270	28	0.4
35-35.2153-108.4211-2-11-						0-N08195	40260	-0.05	354	5431	65	-59	9.1	57	3.1	5	1.6	19070	29.1	11330	27	0.5
35-35.2158-108.4172-2-15-						0-N08196	52920	-0.06	441	10030	54	-57	8.7	33	2.5	6	1.2	18500	10.1	10050	33	0.4
35-35.2194-108.4158-2-15-						0-N08197	47330	-0.04	411	5041	32	-53	5.0	13	1.4	7	0.7	7646	5.4	11210	14	0.2
35-35.2206-108.4175-2-15-						0-N08198	36530	-0.05	270	4990	55	-51	8.6	73	3.1	4	1.3	18560	26.8	8373	24	0.4
35-35.2433-108.4531-2-15-						0-N08199	41090	-0.04	373	4908	51	-46	8.1	38	4.3	5	1.3	20610	10.0	10210	26	0.4
35-35.2469-108.4914-2-15-						0-N08200	39130	-0.03	512	9153	53	-48	7.7	47	2.8	4	0.7	22070	12.7	10380	23	0.4
35-35.2722-108.5153-2-15-						0-N08201	50520	-0.04	834	5919	51	-45	5.8	29	2.3	5	1.1	13050	15.2	10510	27	0.4
35-35.2383-108.5200-2-12-						0-N08202	59280	-0.05	593	28720	59	-61	9.1	49	4.5	4	1.5	20470	5.9	11300	30	0.3
35-35.2450-108.5939-2-15-						0-N08204	99930	-0.09	530	8812	90	-67	14.4	58	13.2	7	2.1	37950	4.6	19130	44	0.4
35-35.2058-108.5817-2-15-						0-N08205	58210	-0.03	775	3438	29	-62	3.5	8	2.3	5	0.7	7542	6.6	20690	15	0.2
35-35.1292-108.5489-2-15-						0-N08207	74250	-0.07	583	5114	62	-61	9.1	37	6.9	6	1.7	19930	7.8	21830	34	0.4
35-35.1283-108.6078-2-15-						0-N08208	72380	-0.06	612	5052	91	-63	12.9	47	8.6	6	2.0	23990	8.4	19960	42	0.5
35-35.1644-108.5803-2-15-						0-N08209	65940	-0.06	784	3624	113	-71	10.3	44	6.5	9	2.5	22460	59.2	23320	52	1.1
35-35.2161-108.6233-2-15-						0-N08210	49060	-0.04	913	1574	41	-59	3.1	18	1.5	7	0.9	6646	24.0	20660	18	0.4
35-35.1458-108.6350-2-15-						0-N08212	40810	-0.05	578	2602	48	-50	6.4	27	3.3	5	1.3	11070	24.6	15790	24	0.5
35-35.1200-108.6469-2-15-						0-N08214	61910	-0.05	590	5490	68	-66	9.5	42	5.2	5	1.7	20650	10.4	16110	31	0.5
35-35.0725-108.5931-2-15-						0-N08216	41730	-0.04	529	2128	58	-59	6.4	35	3.5	6	1.5	13880	24.3	15760	25	0.6
35-35.1056-108.6894-2-15-						0-N08219	96350	-0.06	527	21810	36	-58	5.8	19	4.3	6	0.9	14050	2.3	19180	20	0.3
35-35.0483-108.6753-2-15-						0-N08220	47570	-0.05	474	22800	47	-48	6.6	39	3.8	5	1.2	17450	13.4	14810	24	0.4
35-35.0019-108.5919-2-15-						0-N08222	48800	-0.04	424	-483	61	-63	8.5	35	4.3	5	1.2	18750	12.8	14670	24	0.5
35-35.3456-108.2783-2-15-						0-N08224	49220	-0.05	444	6714	70	-57	11.2	53	5.4	5	1.7	21680	14.5	11500	35	0.5
35-35.3489-108.2803-2-15-						0-N08225	56720	-0.03	522	10410	65	-62	8.7	55	4.8	5	1.2	23910	9.8	14870	29	0.4
35-35.3064-108.2617-2-15-						0-N08226	51490	-0.05	386	12190	41	-44	12.0	52	3.9	4	1.0	29010	12.6	8699	22	0.3
35-35.3342-108.2556-2-15-						0-N08227	42300	-0.05	469	6244	59	-57	9.2	62	3.4	5	1.3	19230	22.5	11560	27	0.5
35-35.3289-108.2394-2-15-						0-N08228	52130	-0.05	467	9083	64	-67	12.6	49	4.6	5	1.5	21540	13.8	12890	28	0.4
35-35.2925-108.2606-2-15-						0-N08230	39270	-0.04	477	5218	22	-69	3.8	20	1.8	5	0.6	6468	6.4	10730	12	0.2
35-35.2769-108.2528-2-15-						0-N08231	22780	-0.03	284	2157	24	-37	2.7	34	1.5	3	0.8	5342	19.3	8709	12	0.3
35-35.1144-108.8178-2-15-						0-N08238	48370	-0.04	470	18690	44	-71	7.8	38	3.2	3	1.2	17950	10.2	15000	19	0.4
35-35.0944-108.7919-2-15-						0-N08239	35200	-0.03	434	12970	31	125	3.8	22	1.7	3	0.9	10320	9.9	15650	14	0.2
35-35.0442-108.8175-2-15-						0-N08240	29980	-0.02	349	15120	24	-55	2.5	23	1.6	2	0.8	9664	11.0	13750	11	0.2
35-35.0453-108.8119-2-15-						0-N08241	32530	-0.02	344	16380	31	-54	3.1	21	1.2	2	0.7	9678	7.6	15870	11	0.2
35-35.0406-108.8219-2-15-						0-N08242	58130	-0.05	672	11960	58	-77	14.4	53	3.3	4	1.6	22720	8.5	12290	27	0.4
35-35.0450-108.8497-2-15-						0-N08243	31290	-0.04	623	23480	37	-53	4.9	38	1.8	3	1.3	12840	24.2	14730	15	0.4
35-35.3075-108.7742-2-15-						0-N08244	45530	-0.07	533	9787	101	-64	21.9	64	8.7	6	3.1	39950	56.6	16830	44	0.8
35-35.2742-108.8300-2-15-						0-N08245	42740	-0.04	527	4781	52	-57	5.5	30	2.6	5	1.3	14310	27.5	16900	25	0.5
35-35.2725-108.8300-2-15-						0-N08246	48030	-0.05	539	5458	69	-66	8.1	36	4.1	5	1.4	18620	28.6	16880	31	0.6
35-35.2728-108.8408-2-15-						0-N08247	63420	-0.05	514	13330	63	-74	10.3	43	4.8	5	1.5	26480	13.6	19320	31	0.5
35-35.2717-108.8417-2-15-						0-N08248	61260	-0.04	579	10340	33	-63	5.1	24	2.3	6	0.7	14470	13.1	18250	16	0.3
35-35.2778-108.8606-2-15-						0-N08249	65190	-0.06	519	11520	51	-62	8.6	29	5.7	5	1.2	22550	9.0	20770	25	0.3
35-35.2731-108.7767-2-15-						0-N08250	45990	-0.04	611	4748	49	-68	6.3	27	3.4	4	1.3	15400	13.7	18120	24	0.4
35-35.3458-108.8083-2-15-						0-N08251	48880	-0.04	523	14770	63	-69	9.5	40	4.9	6	1.5	22980	29.2	19610	32	0.6
35-35.2594-108.9206-2-15-						0-N08252	40740	-0.03	568	14970	19	106	2.8	16	1.4	3	0.5	7561	7.2	15170	9	0.2
35-35.2700-108.9356-2-15-						0-N08253	35120	-0.04	503	14450	27	658	4.4	23	2.7	3	0.8	10020	13.1	14290	17	0.2
35-35.3719-108.9503-2-15-						0-N08257	31490	-0.03	517	8087	30	-48	3.1	24	2.2	3	0.9	10380	14.9	15820	14	0.3
35-35.3536-108.9172-2-15-						0-N08258	61370	-0.06	568	19920	70	244	9.7	36	6.2	5	1.7	21420	12.1	18580	35	0.4
35-35.3397-108.8889-2-15-						0-N08259	48750	-0.03	596	7245	26	-58	3.6	16	1.7	4	0.6	7140	6.7	19480	13	0.2
35-35.3389-108.8881-2-15-						0-N08260	45470	-0.05	729	10100	43	-57	6.2	25	3.9	5	1.1	13750	16.5	18290	24	0.4
35-35.3344-108.9033-2-15-						0-N08261	54180	-0.05	755	41220	55	-73	7.7	34	5.2	4	1.6	23040	9.8	17830	29	0.3
35-35.2522-108.6736-2-15-						0-N08262	54800	-0.05	600	2852	65	-62	7.5	31	4.8	5	1.4	15480	14.5	18360	28	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	
35-35.1339-108.3967-2-15-			0-	N	08192		19690	489	7919	-21	-1	6.5	4.1	-227	-1	-1	8.2	3541	56	2.3	52	0.280
35-35.1314-108.3928-2-15-			0-	N	08193		17980	519	6530	46	-1	7.7	4.6	-216	-1	-1	10.0	3524	63	3.2	63	0.240
35-35.2153-108.4211-2-11-			0-	N	08195		-2259	370	4227	42	-1	6.0	5.2	-192	-1	-1	9.4	3993	49	3.8	61	0.319
35-35.2158-108.4172-2-15-			0-	N	08196		6724	560	4076	37	-1	6.4	4.8	-245	-1	-1	8.7	4299	60	2.8	66	0.276
35-35.2194-108.4158-2-15-			0-	N	08197		5988	349	4709	-13	-1	2.7	2.7	-202	-1		3.8	4044	49	1.4	-14	0.684
35-35.2206-108.4175-2-15-			0-	N	08198		7639	424	3139	44	-1	5.8	4.3	-188	-1	-1	7.6	3679	56	3.3	61	0.342
35-35.2433-108.4531-2-15-			0-	N	08199		5879	329	2990	-19	-1	6.0	4.8	-169	-1	-1	8.2	3262	50	2.7	60	0.256
35-35.2469-108.4914-2-15-			0-	N	08200		9170	480	3631	65	-1	6.3	4.6	-209	-1	-1	8.6	3054	42	3.1	-29	0.209
35-35.2722-108.5153-2-15-			0-	N	08201		14030	342	3993	-16	-1	4.5	3.5	-179	-1	-1	7.4	3614	44	3.2	36	0.311
35-35.2383-108.5200-2-12-			0-	N	08202		23830	598	2974	59	-1	7.1	4.5	-233	-1	-1	8.3	3387	43	3.1	37	0.301
35-35.2450-108.5939-2-15-			0-	N	08204		18440	436	3360	-32	-2	14.8	8.0	-239	-1	-1	18.1	5031	109	3.2	177	0.210
35-35.2058-108.5817-2-15-			0-	N	08205		8344	239	9583	35	-1	2.9	2.4	-179	-1		5.2	3428	53	1.6	30	0.673
35-35.1292-108.5489-2-15-			0-	N	08207		13410	274	6772	97	-2	8.6	6.1	-203	-1	-1	11.3	5379	74	3.8	70	0.336
35-35.1283-108.6078-2-15-			0-	N	08208		8698	303	5845	76	-1	10.0	7.3	-184	-1	-1	14.9	5607	76	4.7	129	0.255
35-35.1644-108.5803-2-15-			0-	N	08209		9117	309	8761	74	-1	8.8	10.5	-183	-1	1	21.4	4376	60	8.0	104	0.294
35-35.2161-108.6233-2-15-			0-	N	08210		6608	265	9349	37	-1	2.7	3.0	-177	-1		7.9	4006	40	2.8		0.747
35-35.1458-108.6350-2-15-			0-	N	08212		4767	208	6456	41	-1	4.3	3.8	-153	-1	-1	8.7	3945	42	3.4	47	0.448
35-35.1200-108.6469-2-15-			0-	N	08214		9537	275	7582	70	-1	7.9	5.8	-177	-1	-1	12.4	4257	63	3.4	64	0.258
35-35.0725-108.5931-2-15-			0-	N	08216		-2091	180	7483	69	-1	5.3	4.3	-142	-1	-1	10.1	3318	36	4.0	59	0.356
35-35.1056-108.6894-2-15-			0-	N	08219		18890	334	3749	49	-1	6.0	3.1	-242	-1	-1	7.0	5392	101	-1.2	-43	0.557
35-35.0483-108.6753-2-15-			0-	N	08220		11230	257	5175	40	3	5.5	3.9	-159	-1	-1	9.4	3724	49	2.5	48	0.362
35-35.0019-108.5919-2-15-			0-	N	08222		7000	291	7437	56	-1	6.2	4.0	-166	-1	-1	8.3	3758	43	3.7	35	0.361
35-35.3456-108.2783-2-15-			0-	N	08224		9885	576	3994	-20	-1	7.4	5.9	-213	-1	-1	10.4	3157	52	4.1	55	0.231
35-35.3489-108.2803-2-15-			0-	N	08225		13080	513	4230	66	-1	8.7	5.7	-222	-1	-1	10.4	3821	53	3.4	-61	0.231
35-35.3064-108.2617-2-15-			0-	N	08226		6250	565	2668	-21	-1	7.0	3.9	-212	-1	-1	9.9	4127	84	2.3	-35	0.313
35-35.3342-108.2556-2-15-			0-	N	08227		6776	510	4229	40	-1	6.0	4.3	-206	-1	-1	9.4	3332	50	3.8	34	0.287
35-35.3289-108.2394-2-15-			0-	N	08228		9230	537	5764	50	-1	7.3	5.6	-213	-1	-1	9.4	3505	59	3.7	84	0.277
35-35.2925-108.2606-2-15-			0-	N	08230		5653	604	6664	-14	-1	2.2	1.7	-276	-1		3.6	3614	46	-0.8		0.694
35-35.2769-108.2528-2-15-			0-	N	08231		3327	160	3493	-13	-1	2.1	1.8	-124	-1		3.6	2339	27	2.4	23	0.583
35-35.1144-108.8178-2-15-			0-	N	08238		13760	356	9025	67	-1	5.7	3.6	-188	-1	-1	6.9	3282	49	2.9	-21	0.246
35-35.0944-108.7919-2-15-			0-	N	08239		8949	222	6971	45	-1	3.4	2.6	-146	-1		4.7	1838	31	2.0	50	0.319
35-35.0442-108.8175-2-15-			0-	N	08240		7990	219	5935	51		2.9	2.2	-142	-1		4.4	1895	24	2.1	26	0.341
35-35.0453-108.8119-2-15-			0-	N	08241		8439	229	6141	53		2.9	2.3	-172	-1	-1	4.2	1717	26	1.7	-29	0.310
35-35.0406-108.8219-2-15-			0-	N	08242		20160	355	10870	62	-1	7.6	5.0	-199	-1	-1	8.1	3670	56	3.4	37	0.222
35-35.0450-108.8497-2-15-			0-	N	08243		8532	359	5612	33	-1	3.8	3.3	-188	-1	-1	5.3	2725	36	2.9	36	0.396
35-35.3075-108.7742-2-15-			0-	N	08244		9742	575	5490	76	-2	10.4	7.4	-224	2	-1	15.9	6344	91	6.0	129	0.258
35-35.2742-108.8300-2-15-			0-	N	08245		7004	296	8547	43	-1	4.4	3.6	-175	-1	-1	8.9	4737	54	3.3	35	0.427
35-35.2725-108.8300-2-15-			0-	N	08246		5371	319	8264	64	-1	6.0	5.1	-179	1	-1	11.0	4386	57	5.0	53	0.345
35-35.2728-108.8408-2-15-			0-	N	08247		14810	350	8475	70	-1	8.9	6.0	-188	-1	-1	11.5	4382	68	3.6	58	0.270
35-35.2717-108.8417-2-15-			0-	N	08248		9579	405	7747	-15	-1	4.0	3.1	-215	-1	-1	5.3	5659	92	2.1		0.736
35-35.2778-108.8606-2-15-			0-	N	08249		14390	318	8342	64	-1	7.6	4.6	-193	-1	-1	9.4	3875	62	2.9	52	0.298
35-35.2731-108.7767-2-15-			0-	N	08250		8658	315	9465	57	-1	4.6	3.8	-176	-1	-1	7.5	3329	48	3.6	60	0.293
35-35.3458-108.8083-2-15-			0-	N	08251		8829	336	8349	68	-1	6.2	5.0	-176	-1	-1	12.6	4683	64	4.7	83	0.294
35-35.2594-108.9206-2-15-			0-	N	08252		10340	315	6664	-10	-1	2.2	1.3	-191			2.7	3204	55	1.6	-27	0.852
35-35.2700-108.9356-2-15-			0-	N	08253		7195	350	9234	-15	-1	3.1	2.1	-195	-1		4.3	2665	39	1.9	27	0.581
35-35.3719-108.9503-2-15-			0-	N	08257		4987	205	4422	51	-1	2.7	2.2	-136	-1		4.8	2138	31	2.5	-12	0.354
35-35.3536-108.9172-2-15-			0-	N	08258		9896	255	9753	69	-1	8.2	6.0	-183	-1	-1	11.9	3672	57	4.3	112	0.311
35-35.3397-108.8889-2-15-			0-	N	08259		7916	247	8585	29	-1	2.5	1.9	-176			4.3	3284	50	1.7	-16	0.674
35-35.3389-108.8881-2-15-			0-	N	08260		7258	262	8190	-16	-1	4.5	3.6	-174	-1	-1	7.8	3705	55	2.1	37	0.397
35-35.3344-108.9033-2-15-			0-	N	08261		11410	239	8617	52	-1	6.8	4.3	333	-1	-1	9.2	2874	52	3.4	66	0.326
35-35.2522-108.6736-2-15-			0-	N	08262		4733	197	7402	84	-1	6.4	5.1	-149	-1	-1	10.7	3530	50	4.3	64	0.290

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																									
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
35-	35.0661-	108.7153-	2-	15-		0-N08263-	07/15/76-	11-	32-		-C-	-			9-1-9-7-6-	-1-	-2-	1-	3-	3-	1-	-1-	-	-	-	-	1.80
35-	35.4953-	108.8350-	2-	15-		0-N08264-	07/08/76-	14-	32-		-C-	-			23-1-1-4-1-	-1-	-	-4-	2-	4-	2-	-2-	-	-	-	-	3.90
35-	35.4925-	108.8408-	2-	15-		0-N08265-	07/08/76-	15-	30-		-C-	-			14-1-1-5-6-	-1-	-3-	3-	4-	1-	2-	-1-	-	-	-	-	4.10
35-	35.4867-	108.8525-	2-	99-		0-N08266-	07/08/76-	16-	30-		-C-	-			9-1-1-5-7-	-1-	-	-4-	2-	2-	2-	-1-	-	-	-	-	2.10
35-	35.4353-	108.8222-	2-	15-		0-N08268-	07/08/76-	17-	28-		-	-			21-1-1-4-1-	-1-	-2-	4-	3-	2-	2-	-1-	-	-	-	-	3.80
35-	35.4367-	108.8453-	2-	15-		0-N08269-	07/08/76-	18-	28-		-	-			7-1-1-4-1-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	3.80
35-	35.4403-	108.8628-	2-	15-		0-N08270-	07/08/76-	17-	28-		-	-			9-1-1-5-1-	-1-	-2-	3-	4-	3-	2-	-1-	-	-	-	-	3.90
35-	35.4481-	108.8825-	2-	15-		0-N08272-	07/09/76-	13-	32-		-C-	-			9-1-1-5-6-	-1-	-2-	4-	3-	2-	2-	-1-	-	-	-	-	3.60
35-	35.4089-	108.8669-	2-	15-		0-N08273-	07/09/76-	14-	33-		-C-	-			4-1-6-4-1-	-1-	-2-	1-	4-	3-	2-	-1-	-	-	-	-	3.40
35-	35.4422-	108.9317-	2-	15-		0-N08276-	07/09/76-	15-	33-		-	-			14-1-1-5-1-	-1-	-2-	3-	4-	4-	2-	-1-	-	-	-	-	4.10
35-	35.4286-	108.9539-	2-	15-		0-N08277-	07/09/76-	16-	33-		-C-	-			16-1-1-4-1-	-1-	-2-	3-	1-	2-	2-	-9-	-	-	-	-	3.20
35-	35.3875-	108.9528-	2-	15-		0-N08279-	07/09/76-	17-	32-		-C-	-			7-1-1-4-1-	-1-	-2-	3-	4-	2-	2-	-1-	7-	6-	-	-	3.00
35-	35.3869-	108.9633-	2-	15-		0-N08280-	07/09/76-	17-	33-		-	-			14-1-1-4-1-	-1-	-2-	3-	4-	2-	2-	-1-	-	-	-	-	3.10
35-	35.4136-	108.7722-	2-	15-		0-N08281-	07/09/76-	20-	31-		-	-			18-1-1-4-1-	-1-	-2-	3-	4-	2-	2-	-1-	-	-	-	-	3.70
35-	35.4975-	108.7053-	2-	15-		0-N08283-	07/10/76-	14-	34-		-C-	-			14-1-1-5-6-	-1-	-2-	3-	4-	2-	2-	-1-	-	-	-	-	3.50
35-	35.4994-	108.6689-	2-	15-		0-N08284-	07/10/76-	16-	32-		-	-			18-1-1-5-6-	-1-	-2-	3-	3-	3-	2-	-7-	-	-	-	-	4.00
35-	35.4933-	108.6358-	2-	15-		0-N08285-	07/10/76-	16-	33-		-C-	-			9-1-1-5-1-	-1-	-2-	3-	2-	3-	2-	-2-	-	-	-	-	4.10
35-	35.0511-	108.6667-	2-	15-		0-N08287-	07/15/76-	13-	33-		-C-	-			14-1-1-7-1-	-1-	-2-	1-	3-	3-	2-	-1-	-	-	-	-	3.90
35-	35.0986-	108.7378-	2-	15-		0-N08288-	07/09/76-	11-	30-		-C-	-			7-1-4-4-4-	-1-	-1-	1-	3-	4-	1-	-9-	-	-	-	-	2.30
35-	35.1636-	108.7439-	2-	15-		0-N08290-	07/09/76-	12-	30-		-C-	-			7-1-1-4-6-	-1-	-1-	4-	3-	3-	1-	-1-	-	-	-	-	3.10
35-	35.1922-	108.6975-	2-	15-		0-N08294-	07/09/76-	14-	34-		-C-	-			15-1-2-5-6-	-1-	-1-	4-	4-	4-	2-	-1-	-	-	-	-	3.30
35-	35.2028-	108.6469-	2-	15-		0-N08295-	07/09/76-	14-	34-		-C-	-			8-1-2-5-6-	-1-	-1-	1-	3-	4-	2-	-9-	-	-	-	-	3.20
35-	35.2144-	108.6772-	2-	15-		0-N08297-	07/09/76-	15-	32-		-C-	-			10-1-2-5-6-	-1-	-2-	4-	3-	4-	2-	-1-	-	-	-	-	3.20
35-	35.2225-	109.0303-	2-	15-		0-N08298-	07/08/76-	10-	29-		-	-			3-1-6-4-6-	-1-	-3-	1-	4-	3-	2-	-1-	-	-	-	-	2.50
35-	35.1556-	108.8639-	2-	11-		0-N08301-	07/08/76-	13-	33-		-C-	-			5-1-4-5-4-2-2-2-		-1-	2-	3-	2-	2-	-3-	-	-	-	-	2.30
35-	35.1725-	108.8269-	2-	15-		0-N08302-	07/08/76-	13-	34-		-	-			12-1-4-5-6-	-1-	-1-	3-	3-	3-	2-	-3-	-	-	-	-	2.10
35-	35.1958-	108.8594-	2-	15-		0-N08303-	07/08/76-	14-	35-		-	-			10-1-6-4-6-	-1-	-2-	1-	3-	2-	2-	-3-	-	-	-	-	2.40
35-	35.2003-	108.8525-	2-	15-		0-N08304-	07/08/76-	14-	34-		-	-			8-1-6-4-6-	-1-	-3-	3-	3-	3-	2-	-3-	-	-	-	-	1.90
35-	35.4094-	108.7000-	2-	15-		0-N08307-	07/07/76-	17-	28-		-	-			18-1-1-5-1-	-1-	-2-	1-	3-	3-	2-	-1-	-	-	-	-	3.70
35-	35.4114-	108.7136-	2-	15-		0-N08308-	07/07/76-	18-	28-		-	-			28-1-1-4-1-	-1-	-2-	3-	4-	3-	2-	-1-	-	-	-	-	3.30
35-	35.4261-	108.7250-	2-	15-		0-N08310-	07/07/76-	19-	27-		-	-			14-1-1-4-1-	-1-	-2-	3-	4-	3-	2-	-1-	-	-	-	-	4.10
35-	35.4689-	108.7742-	2-	15-		0-N08313-	07/08/76-	14-	32-		-	-			16-1-1-4-1-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	4.10
35-	35.4869-	108.7967-	2-	15-		0-N08314-	07/08/76-	14-	31-		-C-	-			4-1-1-4-1-	-1-	-2-	3-	3-	3-	2-	-1-	1-	6-	-	-	3.40
35-	35.4928-	108.8208-	2-	15-		0-N08315-	07/08/76-	14-	31-		-	-			11-1-1-5-1-	-1-	-2-	3-	3-	2-	2-	-1-	-	-	-	-	3.40
35-	35.0775-	108.8844-	2-	15-		0-N08316-	07/07/76-	14-	35-		-	-			10-1-4-5-4-	-1-	-1-	3-	3-	4-	2-	-1-	-	-	-	-	1.90
35-	35.0489-	108.9925-	2-	15-		0-N08318-	07/07/76-	16-	34-		-	-			10-1-6-4-6-	-1-	-1-	1-	2-	2-	2-	-3-	-	-	-	-	1.90
35-	35.0267-	108.9883-	2-	15-		0-N08321-	07/07/76-	19-	33-		-	-			8-1-6-4-6-	-1-	-1-	1-	3-	2-	2-	-1-	-	-	-	-	2.30
35-	35.1231-	108.9369-	2-	15-		0-N08324-	07/08/76-	8-	28-		-	-			7-1-4-5-4-	-1-	-1-	1-	3-	3-	1-	-3-	-	-	-	-	2.60
35-	35.1242-	108.9442-	2-	15-		0-N08325-	07/08/76-	9-	29-		-	-			8-1-4-5-4-	-1-	-1-	1-	3-	3-	1-	-3-	-	-	-	-	2.20
35-	35.6581-	108.7314-	2-	11-		0-N08331-	09/22/77-	8-	15-	10.8	-C-	-	8.4-	1525-	17-1-2-4-1-2-3-2-		-4-	3-	3-	1-	-1-	-	-	-	-	3.50
35-	35.6542-	108.7403-	2-	15-		0-N08333-	09/22/77-	9-	17-		-	-	-	-	12-1-1-4-6-	-1-	-2-	3-	3-	4-	1-	-3-	-	-	-	-	5.60
35-	35.6539-	108.6414-	2-	15-		0-N08335-	09/22/77-	11-	19-		-C-	-	-	-	11-1-4-4-4-	-1-	-2-	3-	2-	3-	1-	-3-	-	-	-	-	3.60
35-	35.6478-	108.6539-	2-	15-		0-N08336-	09/22/77-	12-	19-		-C-	-	-	-	15-1-1-4-6-	-1-	-	-1-	3-	3-	1-	-5-	-	-	-	-	3.60
35-	35.6550-	108.9486-	2-	11-		0-N08337-	09/20/77-	12-	24-		-C-	-	8.0-	342-	104-1-1-5-1-4-3-1-		-3-	4-	2-	1-	-9-	-	-	-	-	4.00
35-	35.6197-	108.8981-	2-	15-		0-N08339-	09/20/77-	11-	24-		-C-	-	-	-	92-1-1-5-1-	-1-	-2-	4-	3-	3-	1-	-9-	-	-	-	-	3.40
35-	35.6297-	108.9231-	2-	15-		0-N08340-	09/20/77-	11-	25-		-C-	-	-	-	98-1-1-4-1-	-1-	-1-	4-	4-	2-	1-	-9-	-	-	-	-	3.30
35-	35.6361-	108.8283-	2-	15-		0-N08341-	09/20/77-	13-	24-		-	-	-	-	23-1-1-4-1-	-1-	-2-	3-	2-	2-	1-	-	-	-	-	-	5.40
35-	35.6422-	108.8408-	2-	15-		0-N08342-	09/20/77-	13-	24-		-C-	-	-	-	104-1-1-4-1-	-1-	-2-	1-	3-	3-	1-	-9-	-	-	-	-	6.60
35-	35.6525-	108.8394-	2-	15-		0-N08344-	09/20/77-	12-	24-		-	-	-	-	115-1-1-4-6-	-1-	-2-	3-	3-	3-	1-	-	-	-	-	-	3.60
35-	35.6428-	108.7958-	2-	15-		0-N08345-	09/20/77-	12-	24-		-C-	-	-	-	104-1-6-7-6-	-1-	-2-	3-	2-	2-	1-	-	-	-	-	-	2.90
35-	35.6575-	108.7700-	2-	15-		0-N08347-	09/20/77-	10-	23-		-C-	-	-	-	92-1-1-4-1-	-1-	-1-	2-	2-	3-	1-	-1-	-	-	-	-	8.20

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	LAB. 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
35	35.0661	108.7153	2	15	0	N09263	-5	-5	-5	18	-20	-15	8	-10	-15	1	16
35	35.4953	108.8350	2	15	0	N09264	-5	-5	-5	48	-20	197	12	-10	-15	3	82
35	35.4925	108.8408	2	15	0	N09265	-5	5	-5	33	-20	-15	10	-10	-15	2	35
35	35.4867	108.8525	2	99	0	N09266	-5	-5	-5	16	-20	-15	9	-10	-15	1	21
35	35.4353	108.8222	2	15	0	N09268	-5	5	-5	23	-20	-15	11	-10	-15	2	23
35	35.4367	108.8453	2	15	0	N09269	-5	6	-5	18	-20	-15	8	-10	-15	1	20
35	35.4403	108.8628	2	15	0	N09270	-5	-5	-5	20	-20	-15	-5	-10	-15	2	23
35	35.4481	108.8825	2	15	0	N09272	-5	5	-5	27	-20	-15	14	-10	-15	2	20
35	35.4089	108.8669	2	15	0	N09273	-5	-5	-5	20	-20	-15	11	-10	-15	2	24
35	35.4422	108.9317	2	15	0	N09275	-5	6	-5	31	-20	-15	8	-10	-15	2	25
35	35.4286	108.9539	2	15	0	N09277	-5	-5	-5	24	-20	-15	5	-10	-15	2	24
35	35.3875	108.9528	2	15	0	N09279	-5	-5	-5	22	-20	-15	-5	-10	-15	2	25
35	35.3869	108.9633	2	15	0	N09280	-5	-5	-5	19	-20	16	10	-10	-15	2	26
35	35.4136	108.7722	2	15	0	N09281	-5	7	-5	27	-20	-15	-5	-10	-15	2	28
35	35.4975	108.7053	2	15	0	N09283	-5	7	-5	24	-20	-15	13	-10	-15	2	27
35	35.4994	108.6689	2	15	0	N09284	-5	6	-5	25	-20	26	14	-10	-15	2	39
35	35.4933	108.6358	2	15	0	N09285	-5	8	-5	22	-20	15	7	-10	-15	2	29
35	35.0511	108.6667	2	15	0	N09287	-5	6	-5	23	-20	-15	8	-10	-15	2	31
35	35.0986	108.7378	2	15	0	N09288	-5	-5	-5	13	-20	-15	-5	-10	-15	-1	12
35	35.1636	108.7439	2	15	0	N09290	-5	6	-5	19	-20	-15	5	-10	-15	1	21
35	35.1922	108.6975	2	15	0	N09294	-5	-5	-5	17	-20	-15	14	-10	-15	2	35
35	35.2028	108.6469	2	15	0	N09295	-5	-5	-5	28	-20	-15	5	-10	-15	1	18
35	35.2144	108.6772	2	15	0	N09297	-5	6	-5	28	-20	-15	-5	-10	-15	1	22
35	35.2225	109.0303	2	15	0	N09298	-5	-5	-5	26	-20	-15	-5	-10	-15	1	13
35	35.1556	108.8639	2	11	0	N09301	-5	-5	-5	30	-20	15	5	-10	-15	1	41
35	35.1725	108.8269	2	15	0	N09302	-5	6	-5	25	-20	-15	14	-10	-15	2	47
35	35.1958	108.8594	2	15	0	N09303	-5	-5	-5	13	-20	-15	-5	-10	-15	1	14
35	35.2003	108.8525	2	15	0	N09304	-5	-5	-5	22	-20	-15	5	-10	-15	-1	20
35	35.4094	108.7000	2	15	0	N09307	-5	-5	-5	21	-20	-15	9	-10	-15	2	22
35	35.4114	108.7136	2	15	0	N09308	-5	-5	-5	23	-20	-15	9	-10	-15	2	25
35	35.4261	108.7250	2	15	0	N09310	-5	6	-5	20	-20	20	9	-10	-15	2	28
35	35.4689	108.7742	2	15	0	N09313	-5	-5	-5	17	-20	15	20	-10	-15	2	28
35	35.4869	108.7967	2	15	0	N09314	-5	-5	-5	21	-20	-15	17	-10	-15	2	33
35	35.4928	108.8208	2	15	0	N09315	-5	-5	-5	24	-20	-15	7	-10	-15	2	34
35	35.0775	108.8844	2	15	0	N09316	-5	7	-5	32	-20	19	6	-10	-15	1	32
35	35.0489	108.9925	2	15	0	N09318	-5	-5	-5	17	-20	-15	6	-10	-15	1	23
35	35.0267	108.9883	2	15	0	N09321	-5	-5	-5	18	-20	-15	15	-10	-15	1	17
35	35.1231	108.9369	2	15	0	N09324	-5	-5	-5	29	-20	-15	13	-10	-15	2	70
35	35.1242	108.9442	2	15	0	N09325	-5	5	-5	33	-20	-15	6	-10	-15	1	41
35	35.6581	108.7314	2	11	0	N09331	-5	7	-5	20	-20	-15	10	-10	-15	2	22
35	35.6542	108.7403	2	15	0	N09333	-5	-5	-5	28	-20	-15	11	-10	-15	2	31
35	35.6539	108.6414	2	15	0	N09335	-5	-5	-5	30	-20	-15	28	-10	-15	2	26
35	35.6478	108.6539	2	15	0	N09336	-5	-5	-5	29	-20	-15	16	-10	-15	2	24
35	35.6550	108.9486	2	11	0	N09337	-5	-5	-5	21	-20	-15	20	-10	-15	2	34
35	35.6197	108.8981	2	15	0	N09339	-5	-5	-5	18	-20	-15	13	-10	-15	2	35
35	35.6297	108.9231	2	15	0	N09340	-5	7	-5	24	-20	-15	39	-10	-15	2	23
35	35.6361	108.8283	2	15	0	N09341	-5	-5	-5	13	-20	-15	9	-10	-15	2	23
35	35.6422	108.8408	2	15	0	N09342	-5	6	-5	12	-20	-15	12	-10	-15	1	16
35	35.6525	108.8394	2	15	0	N09344	-5	5	-5	20	-20	-15	14	-10	16	1	19
35	35.6428	108.7958	2	15	0	N09345	-5	5	-5	18	-20	-15	14	-10	-15	2	25
35	35.6575	108.7700	2	15	0	N09347	-5	5	-5	18	-20	-15	8	-10	-15	1	25

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-	35.0661-	103.7153-	2-	15-	0-	N08263	40960	-0.03	543	7748	14	-49	1.8	10	1.2	3	0.5	4537	6.3	19230	7	0.1
35-	35.4953-	108.8350-	2-	15-	0-	N08264	46570	-0.06	1413	36590	98	-77	28.3	209	6.3	4	2.5	30730	7.7	35770	48	0.2
35-	35.4925-	108.8408-	2-	15-	0-	N08265	106600	-0.08	549	8546	102	-58	16.3	57	11.2	6	2.1	35190	5.1	17890	49	0.6
35-	35.4867-	108.8525-	2-	99-	0-	N08266	50770	-0.05	602	3123	56	-59	5.8	32	3.9	5	1.4	11840	10.5	23010	25	0.4
35-	35.4353-	108.8222-	2-	15-	0-	N08268	63490	-0.04	934	8112	32	-67	4.5	19	2.8	5	0.8	8626	8.0	22680	16	0.2
35-	35.4367-	108.8453-	2-	15-	0-	N08269	56830	-0.05	866	7888	58	92	8.2	34	4.9	5	1.5	16450	18.5	19410	29	0.5
35-	35.4403-	108.8628-	2-	15-	0-	N08270	60440	-0.05	683	4676	73	-63	9.5	32	6.0	5	1.7	18750	15.9	19880	36	0.6
35-	35.4481-	108.8825-	2-	15-	0-	N08272	64710	-0.05	604	5847	73	-62	10.9	34	6.5	6	1.7	21280	9.4	17220	32	0.5
35-	35.4089-	108.8669-	2-	15-	0-	N08273	68810	-0.04	797	7241	31	-54	4.3	18	3.1	6	0.8	8924	5.3	16520	16	0.2
35-	35.4422-	108.9317-	2-	15-	0-	N08275	64360	-0.06	736	6270	56	-57	10.7	35	5.9	6	1.5	18080	9.0	18380	31	0.4
35-	35.4286-	108.9539-	2-	15-	0-	N08277	58300	-0.05	584	6697	70	-65	8.7	37	5.7	5	1.6	18560	13.6	22670	34	0.5
35-	35.3875-	108.9528-	2-	15-	0-	N08279	54110	-0.05	604	13140	54	-64	7.1	30	4.5	5	1.4	18190	11.7	18010	26	0.4
35-	35.3869-	108.9633-	2-	15-	0-	N08280	55360	-0.03	654	15660	25	-58	3.7	13	2.3	5	0.6	8673	6.1	19280	13	0.2
35-	35.4136-	108.7722-	2-	15-	0-	N08281	66450	-0.06	721	6970	55	-63	8.9	26	6.4	5	1.5	18960	9.2	21390	32	0.4
35-	35.4975-	108.7053-	2-	15-	0-	N08283	63080	-0.05	678	4530	70	-64	9.4	43	7.0	5	1.8	19000	11.2	17860	33	0.5
35-	35.4994-	108.6689-	2-	15-	0-	N08284	75640	-0.07	701	6838	101	181	12.7	37	9.4	6	2.3	26210	12.2	22030	41	0.5
35-	35.4933-	108.6358-	2-	15-	0-	N08285	62640	-0.04	685	5899	31	-61	4.6	11	2.9	5	0.8	7523	5.3	22110	16	0.2
35-	35.0511-	108.6667-	2-	15-	0-	N08287	68790	-0.04	589	7761	34	-61	5.2	21	3.1	6	0.7	9908	7.4	19230	16	0.2
35-	35.0986-	108.7378-	2-	15-	0-	N08288	27030	-0.03	431	9016	26	-48	2.6	38	1.7	3	0.5	12220	26.1	14200	13	0.4
35-	35.1636-	108.7439-	2-	15-	0-	N08290	40990	-0.04	520	9108	44	-49	5.6	44	2.3	4	1.2	23920	22.1	14400	23	0.4
35-	35.1922-	108.6975-	2-	15-	0-	N08294	79910	-0.04	509	9154	31	-57	3.4	16	2.8	6	0.7	10570	2.8	21300	14	0.2
35-	35.2028-	108.6469-	2-	15-	0-	N08295	49890	-0.04	595	2453	57	-53	7.7	29	3.2	5	1.1	13920	11.1	16180	25	0.3
35-	35.2144-	108.6772-	2-	15-	0-	N08297	59600	-0.07	676	4072	85	-57	10.0	44	5.5	5	1.5	21130	13.0	20260	40	0.4
35-	35.2225-	109.0303-	2-	15-	0-	N08298	37740	-0.04	513	5046	39	-57	4.9	34	1.6	4	0.8	16610	17.6	16840	22	0.4
35-	35.1556-	108.8639-	2-	11-	0-	N09301	50010	-0.03	249	68860	21	-71	3.1	17	1.5	3	0.4	8585	3.1	17010	10	0.1
35-	35.1725-	108.8269-	2-	15-	0-	N09302	55050	-0.05	589	49430	55	-77	7.3	33	3.6	5	1.3	19850	6.1	18420	28	0.3
35-	35.1958-	108.8594-	2-	15-	0-	N09303	32250	-0.03	441	12090	37	-58	4.6	43	2.2	3	1.1	19790	24.9	12940	20	0.4
35-	35.2003-	108.8525-	2-	15-	0-	N09304	36530	-0.03	529	18120	30	-53	3.3	26	1.4	3	0.8	12370	11.9	14960	16	0.2
35-	35.4094-	108.7000-	2-	15-	0-	N09307	61590	-0.05	849	5497	74	-73	9.7	25	5.3	5	1.8	19340	15.6	21940	35	0.5
35-	35.4114-	108.7136-	2-	15-	0-	N09308	57380	-0.03	756	8470	31	123	4.3	15	2.2	5	0.7	8625	5.2	20730	12	0.2
35-	35.4261-	108.7250-	2-	15-	0-	N09310	68530	-0.05	874	5367	59	-63	8.1	30	5.0	6	1.5	17040	13.3	23400	31	0.4
35-	35.4689-	108.7742-	2-	15-	0-	N09313	66010	-0.04	804	7896	37	-65	4.7	14	2.7	6	0.9	8927	6.3	21030	13	0.2
35-	35.4869-	108.7967-	2-	15-	0-	N09314	67820	-0.05	764	12210	61	-58	8.8	23	5.0	5	1.4	17410	8.2	20170	30	0.3
35-	35.4928-	108.8208-	2-	15-	0-	N09315	71520	-0.05	648	6983	82	-69	11.2	46	7.2	5	1.8	23060	9.8	24570	38	0.4
35-	35.0775-	108.8844-	2-	15-	0-	N09316	51790	-0.05	372	32260	46	-77	7.3	38	3.7	4	1.3	17630	6.9	20160	24	0.3
35-	35.0489-	108.9925-	2-	15-	0-	N09318	50620	-0.03	600	11890	21	-69	3.8	19	-0.8	4	0.7	9550	5.3	20800	12	0.1
35-	35.0267-	108.9883-	2-	15-	0-	N09321	35980	-0.04	517	3955	36	-57	5.2	25	2.2	4	1.1	12600	16.3	18510	22	0.3
35-	35.1231-	108.9369-	2-	15-	0-	N09324	70560	-0.05	505	29980	53	360	11.1	47	5.1	5	1.6	24700	4.7	21560	31	0.4
35-	35.1242-	108.9442-	2-	15-	0-	N09325	49370	-0.04	368	24960	40	-71	7.1	27	3.9	4	1.2	16840	6.9	18160	22	0.4
35-	35.6581-	108.7314-	2-	11-	0-	N09331	50450	-0.03	634	8451	59	-74	10.4	27	5.3	4	2.2	14490	10.3	18560	25	0.3
35-	35.6542-	108.7403-	2-	15-	0-	N09333	58900	-0.06	750	6393	105	-84	9.0	39	5.3	7	1.8	21950	22.5	20050	44	0.7
35-	35.6539-	108.6414-	2-	15-	0-	N09335	62310	-0.06	767	6013	82	-61	10.4	22	6.9	5	1.7	17630	9.3	20890	33	0.4
35-	35.6478-	108.6539-	2-	15-	0-	N09336	55410	-0.06	753	4097	77	-57	10.0	29	6.5	5	1.7	19660	16.7	22370	40	0.4
35-	35.6550-	108.9486-	2-	11-	0-	N09337	62200	-0.04	624	7274	104	-72	13.3	29	9.2	6	3.1	20690	17.3	20530	42	0.5
35-	35.6197-	108.8981-	2-	15-	0-	N09339	62940	-0.05	762	4214	71	-74	15.9	36	8.6	5	2.6	24360	12.6	23370	34	0.4
35-	35.6297-	108.9231-	2-	15-	0-	N09340	54590	-0.05	866	8220	80	-64	8.8	34	4.8	5	1.6	17440	12.0	22330	31	0.4
35-	35.6361-	108.8283-	2-	15-	0-	N09341	51600	0.25	714	7821	127	-69	10.0	55	5.0	7	2.6	30480	57.5	20800	59	1.0
35-	35.6422-	108.8408-	2-	15-	0-	N09342	47050	-0.04	1044	5039	124	-75	13.6	72	5.4	8	3.4	24970	63.5	17290	55	1.1
35-	35.6525-	108.8394-	2-	15-	0-	N09344	52330	-0.05	725	7098	78	-76	11.1	35	6.8	5	2.5	21360	20.3	17900	41	0.5
35-	35.6428-	108.7958-	2-	15-	0-	N09345	58310	-0.05	677	5972	76	-69	6.8	28	4.8	5	1.7	17020	9.8	21170	29	0.4
35-	35.6575-	108.7700-	2-	15-	0-	N09347	47760	-0.06	883	7120	164	-76	8.9	59	5.2	9	2.9	27320	101.3	19610	78	1.6

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	
35-35.0661-108.7153-2-15-						0-N08263	8681	230	5045	27	-1	1.5	1.1	-169			2.4	2458	32	-0.5		0.750
35-35.4953-108.8350-2-15-						0-N08264	66070	579	12010	88	-2	9.8	7.2	840	-1	-1	13.6	6896	91	-1.8	64	0.287
35-35.4925-108.8408-2-15-						0-N08265	17590	367	2970	75	-2	15.2	8.8	-216	-1	-1	17.8	5657	109	4.5	116	0.230
35-35.4867-108.8525-2-99-						0-N08266	4579	166	6035	70	-1	5.2	5.4	-150	-1	-1	9.8	2619	33	3.4	74	0.214
35-35.4353-108.8222-2-15-						0-N08268	9089	354	9915	34	-1	3.3	2.6	-214	-1	-1	6.0	3356	67	2.1	-19	0.633
35-35.4367-108.8453-2-15-						0-N08269	6729	263	8226	59	-1	6.1	5.0	-179	-1	-1	11.0	4347	60	3.5	-42	0.345
35-35.4403-108.8628-2-15-						0-N08270	7300	237	7452	50	-1	7.7	5.9	-167	-1	-1	13.1	4281	57	3.8	78	0.298
35-35.4481-108.8825-2-15-						0-N08272	9085	229	6964	79	-1	8.7	6.0	-158	-1	-1	13.8	4409	58	3.2	103	0.261
35-35.4089-108.8669-2-15-						0-N08273	8344	226	6249	-14	-1	4.0	2.8	-179	-1	-1	4.7	4368	69	1.8	38	0.723
35-35.4422-108.9317-2-15-						0-N08275	8533	255	7277	-22	2	7.3	5.1	-178	-1	-1	11.3	5016	62	2.9	60	0.363
35-35.4286-108.9539-2-15-						0-N08277	7986	217	7947	64	-1	7.3	4.9	-159	-1	-1	11.4	3627	49	4.0	92	0.281
35-35.3875-108.9528-2-15-						0-N08279	7765	253	7713	68	-1	6.3	4.8	-163	-1	-1	10.3	3378	52	2.9	46	0.291
35-35.3869-108.9633-2-15-						0-N08280	10830	258	7231	-14	-1	3.0	2.0	-183	-1		3.8	3721	54	1.8	37	0.816
35-35.4136-108.7722-2-15-						0-N08281	11060	311	9654	67	2	7.5	5.1	-198	-1	-1	10.7	4498	71	3.6	71	0.346
35-35.4975-108.7053-2-15-						0-N08283	8017	227	7991	69	-1	8.1	5.7	-161	-1	-1	11.7	4026	57	4.2	-61	0.299
35-35.4994-108.6689-2-15-						0-N08284	11180	269	8099	92	-2	11.0	8.6	-200	-1	-1	15.8	4776	79	5.2	94	0.253
35-35.4933-108.6358-2-15-						0-N08285	8512	244	8148	40	-1	3.3	2.5	-181	-1		6.1	3855	63	1.6	-21	0.672
35-35.0511-108.6667-2-15-						0-N08287	8691	302	7646	-16	-1	3.9	3.2	-195	-1	-1	5.3	4774	65	2.0	68	0.736
35-35.0986-108.7378-2-15-						0-N08288	5217	277	5374	43	-1	2.8	2.0	-141	-1		5.2	2733	37	3.2	-19	0.442
35-35.1636-108.7439-2-15-						0-N08290	7150	444	5598	48	-1	4.9	3.6	-184	-1	-1	7.3	5221	81	3.1	54	0.425
35-35.1922-108.6975-2-15-						0-N08294	13780	296	5423	36	-1	4.5	2.7	-203	-1	-1	5.6	4192	75	1.8		0.589
35-35.2028-108.6469-2-15-						0-N08295	6838	183	6443	61	1	6.2	4.4	-132	1	-1	9.7	3655	46	3.4	98	0.330
35-35.2144-108.6772-2-15-						0-N08297	7229	226	6172	111	-2	9.3	5.9	-178	-1	-1	13.1	3969	57	4.1	55	0.244
35-35.2225-109.0303-2-15-						0-N08299	4742	351	9346	48	-1	3.5	3.4	-174	-1		6.8	4757	60	2.4	45	0.368
35-35.1556-108.8639-2-11-						0-N09301	20930	695	6372	23	-1	3.2	2.0	-277	-1		3.4	2830	50	1.3	-24	0.676
35-35.1725-108.8269-2-15-						0-N08302	16690	566	7989	39	-1	7.0	5.2	-225	-1	-1	8.3	2635	55	2.9	95	0.253
35-35.1958-108.8594-2-15-						0-N08303	6129	365	7340	46	-1	3.8	3.0	-164	-1	-1	5.9	4798	62	3.8	-36	0.407
35-35.2003-108.8525-2-15-						0-N08304	9108	291	8724	-15	-1	3.1	2.5	-160	-1		4.8	3370	46	2.8	-45	0.396
35-35.4094-108.7000-2-15-						0-N08307	6970	251	10780	73	1	7.3	6.4	-169	-1	-1	13.9	4045	59	4.5	123	0.266
35-35.4114-108.7136-2-15-						0-N08308	7689	359	11050	28	-1	3.2	2.2	-209	-1		4.7	3624	61	1.4		0.702
35-35.4261-108.7250-2-15-						0-N08310	9821	217	9471	57	2	7.1	4.7	-182	-1	-1	11.8	4916	66	3.7	-61	0.347
35-35.4689-108.7742-2-15-						0-N08313	10530	299	9580	-14	-1	3.8	2.5	-202		-1	5.9	3758	61	1.6	-25	0.695
35-35.4869-108.7967-2-15-						0-N08314	10380	362	8431	75	-1	7.3	4.8	-189	-1	-1	10.5	4412	67	3.2	56	0.324
35-35.4928-108.8208-2-15-						0-N08315	14150	311	7495	78	-1	9.1	5.9	-190	-1	-1	13.7	5068	68	4.0	93	0.248
35-35.0775-108.8844-2-15-						0-N08316	19460	362	8242	43	-1	6.3	4.2	-202	-1	-1	7.3	2441	45	3.1	66	0.260
35-35.0489-108.9925-2-15-						0-N08318	11670	409	10170	28	-1	2.3	2.1	-218	-1		2.9	4328	65	1.7	-16	0.655
35-35.0267-108.9883-2-15-						0-N08321	4901	323	8960	44	-1	3.2	3.2	-176	-1		6.3	3905	48	2.2	26	0.365
35-35.1231-108.9369-2-15-						0-N08324	27480	534	6625	88	-1	9.3	5.0	-217	-1		9.9	3458	59	3.6	105	0.263
35-35.1242-108.9442-2-15-						0-N08325	15880	390	8308	55	-1	6.0	4.3	-186	-1	-1	7.1	2832	47	2.6	40	0.310
35-35.6581-108.7314-2-11-						0-N08331	8709	269	11630	68	-1	6.7	5.5	-176	1		10.0	2573	45	2.9	67	0.350
35-35.6542-108.7403-2-15-						0-N08333	10020	366	10410	98	-1	8.8	7.3	-206	-1	-1	16.8	4766	62	5.8	73	0.333
35-35.6539-108.6414-2-15-						0-N08335	9363	272	7976	75	-1	7.7	6.0	-196	-1	-1	12.9	3930	58	3.2	108	0.279
35-35.6478-108.6539-2-15-						0-N08336	7149	215	9096	110	2	8.2	6.5	-168	-1	1	13.6	4142	54	4.4	118	0.265
35-35.6550-108.9486-2-11-						0-N08337	7841	278	10350	80	2	9.7	9.8	-175	2	-1	15.9	4524	54	4.8	111	0.252
35-35.6197-108.8981-2-15-						0-N08339	7579	312	11100	87	-1	9.8	5.7	-179	-1	-1	13.0	3948	59	4.5	122	0.262
35-35.6297-108.9231-2-15-						0-N08340	10870	336	11180	77	-1	6.9	6.4	-200	-1	-1	12.6	3956	51	4.1	66	0.262
35-35.6361-108.8283-2-15-						0-N08341	4984	514	12240	79	-1	9.5	9.6	-215	2	2	22.6	6792	69	8.4	82	0.239
35-35.6422-108.8408-2-15-						0-N08342	-2725	539	10900	57	-1	10.0	13.0	-206	4	2	23.6	8565	65	8.2	95	0.280
35-35.6525-108.8394-2-15-						0-N08344	7209	351	12330	71	-1	7.8	6.6	-182	1	-1	14.4	3916	55	3.9	89	0.250
35-35.6428-108.7958-2-15-						0-N08345	7458	347	11600	69	2	6.3	5.8	-206	-1	-1	12.7	3274	53	4.3	68	0.228
35-35.6575-108.7700-2-15-						0-N08347	5462	652	12640	89	-1	9.8	11.7	-244	3	1	36.3	10140	62	11.9	65	0.226

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
35-35.6394-108.9961-2-12-						0-N08348-09/20/77-13-	26-	20.0	-C-	-	8.1	1800	127-1-1-3-1-3-3-2-2-3-3-3-1-	-9-	-	-	-	-	2.50
35-35.5542-108.9972-2-15-						0-N08349-09/21/77-12-	26-	-	-	-	-	-	-1-1-4-1-	-1-	-2-3-4-2-1-	-1-	-	-	-	-	4.40
35-35.5372-108.9844-2-15-						0-N08350-09/21/77-11-	28-	-	-	-	-	-	139-1-1-4-1-	-1-	-2-3-3-2-1-	-1-	-	-	-	-	3.70
35-35.5081-108.9889-2-15-						0-N08352-09/21/77-12-	24-	-C-	-	-	-	-	115-1-1-4-1-	-1-	-1-3-2-3-1-	-	-	-	-	-	3.50
35-35.5172-108.9353-2-15-						0-N08353-09/21/77-11-	27-	-C-	-	-	-	-	139-1-1-4-1-	-1-	-2-3-3-3-1-	-9-	-	-	-	-	7.50
35-35.5083-108.9208-2-15-						0-N08354-09/21/77-11-	26-	-	-	-	-	-	255-1-1-5-6-	-1-	-2-4-3-3-1-	-1-	-	-	-	-	3.00
35-35.5631-108.9636-2-99-						0-N08355-09/21/77- 9-	17-	-C-	-	-	-	-	173-1-1-3-1-	-1-	- -4-3-3-1-	-1-	-	-	-	-	4.40
35-35.6033-108.9722-2-15-						0-N08356-09/21/77- 8-	-	-	-	-	-	-	121-1-1-4-1-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	3.86
35-35.5769-108.8850-2-15-						0-N08357-09/20/77-17-	24-	-C-	-	-	-	-	127-1-1-5-1-	-1-	-2-3-3-2-1-	-9-	-	-	-	-	3.28
35-35.5789-108.9153-2-15-						0-N08358-09/20/77-16-	28-	-	-	-	-	-	92-1-1-4-1-	-1-	-1-4-4-3-2-	-1-	-	-	-	-	2.92
35-35.5639-108.9047-2-15-						0-N08359-09/20/77-15-	26-	-C-	-	-	-	-	150-1-1-4-1-	-1-	-2-3-3-2-1-	-9-	-	-	-	-	4.07
35-35.5622-108.9036-2-15-						0-N08360-09/20/77-15-	25-	-	-	-	-	-	92-1-1-5-1-	-1-	-1-3-2-1-1-	-1-	-	-	-	-	4.01
35-35.5761-108.9469-2-15-						0-N08361-09/20/77-14-	27-	-C-	-	-	-	-	104-1-1-5-1-	-1-	-2-3-3-2-1-	-9-	-	-	-	-	3.59
35-35.5333-108.7681-2-15-						0-N08364-09/21/77-19-	22-	-	-	-	-	-	115-1-1-4-1-	-1-	-2-4-3-3-1-	-1-	-	-	-	-	6.23
35-35.5739-108.8706-2-15-						0-N08365-09/21/77-18-	23-	-	-	-	-	-	150-1-1-4-1-	-1-	-2-4-3-3-1-	-1-	-	-	-	-	3.38
35-35.5711-108.7911-2-15-						0-N08367-09/21/77-15-	26-	-	-	-	-	-	168-1-1-5-1-	-1-	-2-3-4-2-1-	-1-	-	-	-	-	4.86
35-35.5622-108.8339-2-15-						0-N08369-09/21/77-15-	25-	-	-	-	-	-	69-1-1-5-1-	-1-	-2-3-3-2-1-	-1-	-	-	-	-	3.28
35-35.6103-108.7756-2-15-						0-N08372-09/20/77-19-	20-	-C-	-	-	-	-	150-1-1-4-1-	-1-	-1-3-3-2-1-	-1-	-	-	-	-	4.43
35-35.5372-108.8006-2-15-						0-N08374-09/20/77-16-	25-	-	-	-	-	-	104-1-1-4-1-	-1-	-1-3-3-3-1-	-1-	-	-	-	-	4.15
35-35.5597-108.8275-2-15-						0-N08375-09/20/77-15-	24-	-C-	-	-	-	-	139-1-1-4-1-	-1-	-1-3-3-3-1-	-9-	-	-	-	-	3.41
35-35.5411-108.8419-2-15-						0-N08376-09/20/77-15-	25-	-C-	-	-	-	-	92-1-1-4-1-	-1-	-1-3-3-2-1-	-	-	-	-	-	2.94
35-35.6097-108.8647-2-15-						0-N08378-09/20/77-14-	25-	-C-	-	-	-	-	150-1-1-4-1-	-1-	-1-1-3-3-1-	-1-	-	-	-	-	4.85
35-35.6072-108.7439-2-15-						0-N08380-09/23/77- 7-	14-	-C-	-	-	-	-	11-1-2-4-6-	-1-	-2-3-3-2-1-	-9-	-	-	-	-	3.81
35-35.5764-108.7494-2-15-						0-N08381-09/22/77-19-	13-	-	-	-	-	-	8-1-6-5-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	4.50
35-35.5547-108.7472-2-15-						0-N08382-09/22/77-19-	15-	-	-	-	-	-	12-1-1-4-6-	-1-	-2-3-3-3-4-	-1-	-	-	-	-	2.67
35-35.5064-108.7153-2-15-						0-N08383-09/22/77-18-	18-	-C-	-	-	-	-	10-1-1-5-6-	-1-	-2-3-3-3-4-	-9-	-	-	-	-	3.25
35-35.5392-108.7219-2-15-						0-N08384-09/22/77-18-	17-	-C-	-	-	-	-	16-1-1-5-6-	-1-	-2-3-3-3-3-	-9-	-	-	-	-	3.94
35-35.5531-108.6969-2-15-						0-N08386-09/22/77-17-	16-	-	-	-	-	-	10-1-2-5-6-	-1-	-2-3-3-4-3-	-3-	-	-	-	-	2.17
35-35.6147-108.6367-2-15-						0-N08387-09/22/77-16-	16-	-	-	-	-	-	10-1-1-4-6-	-1-	-2-4-2-4-3-	-3-	-	-	-	-	3.35
35-35.5961-108.6336-2-15-						0-N08388-09/22/77-16-	15-	-	-	-	-	-	9-1-1-4-6-	-1-	-2-4-3-3-3-	-3-	-	-	-	-	2.95
35-35.5825-108.6428-2-99-						0-N08389-09/22/77-15-	14-	-C-	-	-	-	-	6-1-1-4-4-	-	- - -1-3-3-4-	-1-	-	-	-	-	2.26
35-35.5900-108.6564-2-15-						0-N08390-09/22/77-14-	20-	-	-	-	-	-	15-1-3-4-6-	-1-	-2-3-3-4-4-	-3-	-	-	-	-	3.32
35-35.5881-108.6522-2-99-						0-N08391-09/22/77-14-	15-	-C-	-	-	-	-	10-1-2-4-5-	-1-	- -3-3-4-4-	-1-	-	-	-	-	7.67
35-35.5658-108.6394-2-15-						0-N08392-09/22/77-14-	22-	-	-	-	-	-	8-1-1-4-1-	-1-	-2-3-3-4-3-	-3-	-	-	-	-	1.94
35-35.5547-108.6647-2-15-						0-N08393-09/22/77-14-	24-	-	-	-	-	-	9-1-1-4-1-	-1-	-2-4-3-2-2-	-3-	-	-	-	-	2.44
35-35.5331-108.6817-2-15-						0-N08394-09/22/77-13-	24-	-	-	-	-	-	9-1-1-5-6-	-1-	-2-4-4-2-2-	-3-	-	-	-	-	2.80
35-35.5139-108.6819-2-15-						0-N08395-09/22/77-13-	24-	-C-	-	-	-	-	11-1-4-3-1-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	3.62
35-35.5300-108.6394-2-15-						0-N08396-09/22/77-12-	24-	-	-	-	-	-	4-1-4-4-4-	-1-	-2-3-3-3-2-	-3-	-	-	-	-	3.06
35-35.6514-108.5769-2-99-						0-N08397-09/20/77-13-	25-	-C-	-	-	-	-	12-1-1-5-	-	- - - -2-3-2-1-	-3-	-	-	-	-	3.37
35-35.6456-108.5986-2-15-						0-N08399-09/20/77-12-	24-	-	-	-	-	-	13-1-4-5-6-	-1-	-2-4-3-3-1-	-3-	-	-	-	-	3.07
35-35.6292-108.5492-2-15-						0-N08400-09/20/77-14-	25-	-	-	-	-	-	13-1-1-4-1-	-1-	-2-4-3-3-1-	-3-	-	-	-	-	2.95
35-35.5292-108.5239-2-15-						0-N08401-09/21/77- 9-	23-	-	-	-	-	-	10-1-4-4-1-	-1-	-2-4-3-3-1-	-	-	-	-	-	1.62
35-35.5869-108.5472-2-15-						0-N08404-09/20/77-15-	25-	-C-	-	-	-	-	12-1-1-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	4.50
35-35.5886-108.5456-2-15-						0-N08405-09/20/77-15-	25-	-C-	-	-	-	-	10-1-1-4-4-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	4.37
35-35.5997-108.5767-2-15-						0-N08406-09/20/77-13-	25-	-C-	-	-	-	-	6-1-1-4-4-	-1-	-2-3-4-2-1-	-9-	-	-	-	-	3.20
35-35.5789-108.5992-2-15-						0-N08409-09/20/77-11-	24-	-C-	-	-	-	-	13-1-4-4-4-	-1-	-2-4-3-3-1-	-9-	-	-	-	-	3.49
35-35.5394-108.5986-2-15-						0-N08412-09/20/77-10-	25-	-C-	-	-	-	-	6-1-4-4-4-	-1-	-2-7-4-3-1-	-7-	-	-	-	-	1.72
35-35.5303-108.5364-2-15-						0-N08414-09/21/77- 9-	23-	-C-	-	-	-	-	9-1-4-4-1-	-1-	-2-4-3-3-1-	-9-	-	-	-	-	2.01
35-35.6450-108.3908-2-15-						0-N08416-09/20/77-18-	22-	-C-	-	-	-	-	5-1-1-5-6-	-1-	-2-4-3-2-1-	-9-	-	-	-	-	3.57
35-35.6311-108.4250-2-15-						0-N08417-09/20/77-17-	23-	-	-	-	-	-	10-1-1-5-6-	-1-	-2-4-4-2-1-	-3-	-	-	-	-	2.75
35-35.6297-108.4544-2-15-						0-N08418-09/20/77-17-	23-	-	-	-	-	-	12-1-1-4-4-	-1-	-2-3-3-3-1-	-3-	-	-	-	-	2.77

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
35-35.6394-108.9961-2-12-						0-N08348	-5	-5	-5	20	-20	-15	9	-10	-15	1	23
35-35.5542-108.9972-2-15-						0-N08349	-5	6	-5	11	-20	-15	12	-10	-15	1	15
35-35.5372-108.9844-2-15-						0-N08350	-5	-5	-5	27	-20	-15	8	-10	-15	2	20
35-35.5081-108.9889-2-15-						0-N08352	-5	-5	-5	21	-20	-15	7	-10	-15	2	23
35-35.5172-108.9353-2-15-						0-N08353	-5	-5	-5	15	-20	-15	10	-10	-15	1	19
35-35.5083-108.9208-2-15-						0-N08354	-5	-5	-5	14	-20	-15	7	-10	-15	1	23
35-35.5631-108.9636-2-99-						0-N08355	-5	7	-5	14	-20	19	8	-10	-15	1	23
35-35.6033-108.9722-2-15-						0-N08356	-5	5	-5	28	-20	-15	12	-10	-15	1	25
35-35.5769-108.8850-2-15-						0-N08357	-5	-5	-5	25	-20	-15	10	-10	-15	2	28
35-35.5789-108.9153-2-15-						0-N08358	-5	6	-5	30	-20	16	7	-10	-15	2	38
35-35.5639-108.9047-2-15-						0-N08359	-5	7	-5	18	-20	15	12	-10	-15	1	30
35-35.5622-108.9036-2-15-						0-N08360	-5	-5	-5	16	-20	-15	7	-10	-15	2	26
35-35.5761-108.9469-2-15-						0-N08361	-5	9	-5	29	-20	19	15	-10	-15	2	34
35-35.5333-108.7681-2-15-						0-N08364	-5	7	-5	-10	-20	18	10	-10	-15	2	27
35-35.5739-108.8706-2-15-						0-N08365	-5	10	-5	30	-20	-15	9	-10	-15	2	31
35-35.5711-108.7911-2-15-						0-N08367	-5	5	-5	26	-20	19	13	-10	-15	2	48
35-35.5622-108.8339-2-15-						0-N08369	-5	-5	-5	21	-20	-15	17	-10	-15	1	35
35-35.6103-108.7756-2-15-						0-N08372	-5	6	-5	23	-20	-15	14	-10	-15	1	26
35-35.5372-108.8006-2-15-						0-N08374	-5	7	-5	46	-20	-15	10	-10	-15	2	47
35-35.5597-108.8275-2-15-						0-N08375	-5	-5	-5	29	-20	-15	19	-10	-15	1	26
35-35.5411-108.8419-2-15-						0-N08376	-5	-5	-5	26	-20	-15	14	-10	-15	2	26
35-35.6097-108.8647-2-15-						0-N08378	-5	-5	-5	27	-20	-15	13	-10	-15	2	34
35-35.6072-108.7439-2-15-						0-N08380	-5	-5	-5	29	-20	16	5	-10	-15	2	33
35-35.5764-108.7494-2-15-						0-N08381	-5	-5	-5	39	-20	25	17	-10	-15	2	44
35-35.5547-108.7472-2-15-						0-N08382	-5	-5	-5	24	-20	-15	12	-10	-15	1	22
35-35.5064-108.7153-2-15-						0-N08383	-5	6	-5	25	-20	-15	7	-10	-15	2	24
35-35.5392-108.7219-2-15-						0-N08384	-5	5	-5	23	-20	15	15	-10	-15	1	23
35-35.5531-108.6969-2-15-						0-N08386	-5	8	-5	-10	-20	-15	8	-10	-15	1	15
35-35.6147-108.6367-2-15-						0-N08387	-5	-5	-5	13	-20	-15	6	-10	-15	2	26
35-35.5961-108.6336-2-15-						0-N08388	-5	-5	-5	17	-20	17	6	-10	-15	1	22
35-35.5825-108.6428-2-99-						0-N08389	-5	-5	-5	13	-20	-15	7	-10	-15	1	21
35-35.5900-108.6564-2-15-						0-N08390	-5	6	-5	14	-20	-15	6	-10	-15	2	39
35-35.5881-108.6522-2-99-						0-N08391	-5	-5	-5	18	-20	-15	30	-10	-15	1	41
35-35.5658-108.6394-2-15-						0-N08392	-5	-5	-5	11	-20	-15	7	-10	-15	1	15
35-35.5547-108.6647-2-15-						0-N08393	-5	6	-5	19	-20	-15	5	-10	-15	1	17
35-35.5331-108.6817-2-15-						0-N08394	-5	7	-5	18	-20	-15	9	-10	20	1	24
35-35.5139-108.6819-2-15-						0-N08395	-5	-5	-5	27	-20	16	5	-10	-15	2	26
35-35.5300-108.6394-2-15-						0-N08396	-5	5	-5	14	-20	-15	-5	-10	-15	1	26
35-35.6514-108.5769-2-99-						0-N08397	-5	-5	-5	16	-20	-15	18	-10	-15	1	20
35-35.6456-108.5986-2-15-						0-N08399	-5	5	-5	17	-20	-15	12	-10	-15	1	23
35-35.6292-108.5492-2-15-						0-N08400	-5	5	-5	19	-20	-15	15	-10	-15	2	27
35-35.5292-108.5239-2-15-						0-N08401	-5	7	-5	11	-20	-15	7	-10	-15	1	21
35-35.5869-108.5472-2-15-						0-N08404	-5	-5	-5	16	-20	-15	-5	-10	-15	1	17
35-35.5886-108.5456-2-15-						0-N08405	-5	-5	-5	10	-20	-15	7	-10	-15	2	21
35-35.5997-108.5767-2-15-						0-N08406	-5	-5	-5	19	-20	-15	5	-10	-15	1	17
35-35.5789-108.5992-2-15-						0-N08409	-5	-5	-5	-10	-20	-15	9	-10	-15	1	20
35-35.5394-108.5986-2-15-						0-N08412	-5	-5	-5	-10	-20	-15	9	-10	-15	-1	13
35-35.5303-108.5364-2-15-						0-N08414	-5	-5	-5	15	-20	-15	-5	-10	-15	-1	17
35-35.6450-108.3908-2-15-						0-N08416	-5	-5	-5	30	-20	-15	5	-10	-15	2	31
35-35.6311-108.4250-2-15-						0-N08417	-5	5	-5	25	-20	20	-5	-10	-15	1	21
35-35.6297-108.4544-2-15-						0-N08419	-5	8	-5	21	-20	-15	9	-10	-15	2	25

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)												
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
35-35.6394-108.9961-2-12-						0-N08348	41310	-0.03	350	8291	44	-44	6.9	22	7.9	3	1.7	14780	7.9	15660	23	0.2
35-35.5542-108.9972-2-15-						0-N08349	42970	-0.04	1964	2983	69	-66	6.4	30	3.4	6	1.1	15930	33.9	17770	33	0.7
35-35.5372-108.9844-2-15-						0-N08350	59890	-0.05	626	6274	77	-56	8.9	31	4.9	5	1.6	18440	11.9	17990	28	0.5
35-35.5081-108.9889-2-15-						0-N08352	52980	-0.06	596	4545	81	-48	12.3	53	5.7	5	1.7	21900	13.3	16720	41	0.4
35-35.5172-108.9353-2-15-						0-N08353	45190	-0.04	1281	9119	112	-65	12.1	53	6.4	8	3.5	19020	91.8	18370	49	1.2
35-35.5083-108.9208-2-15-						0-N08354	44240	-0.04	573	5470	55	-61	9.7	29	5.2	4	1.9	15070	20.4	18230	22	0.4
35-35.5631-108.9636-2-99-						0-N08355	45930	-0.05	904	2457	80	-62	9.6	28	3.7	6	1.6	15230	27.6	21990	33	0.6
35-35.6033-108.9722-2-15-						0-N08356	59120	-0.05	886	6009	74	-73	6.0	25	3.8	5	1.3	15610	14.6	22030	25	0.5
35-35.5769-108.8850-2-15-						0-N08357	66830	-0.06	699	6139	84	-71	11.8	42	7.3	5	1.8	28720	8.6	18990	38	0.4
35-35.5789-108.9153-2-15-						0-N08358	66550	-0.05	703	9608	59	-75	8.5	42	4.4	5	1.4	21730	5.7	19680	26	0.3
35-35.5639-108.9047-2-15-						0-N08359	58400	-0.04	829	5399	75	-66	7.8	37	4.4	6	1.3	18940	21.4	21690	28	0.5
35-35.5622-108.9036-2-15-						0-N08360	52690	-0.04	739	4581	69	-71	5.6	26	2.9	6	1.2	14960	20.9	21460	29	0.6
35-35.5761-108.9469-2-15-						0-N08361	62890	-0.07	683	5363	92	-68	9.5	46	7.5	6	1.8	23800	12.5	22130	45	0.6
35-35.5333-108.7681-2-15-						0-N08364	49470	-0.04	1633	4761	76	-70	6.3	48	3.1	7	0.8	16390	47.6	17890	38	0.9
35-35.5739-108.8706-2-15-						0-N08366	55010	-0.04	717	3761	66	-62	6.7	35	3.8	5	1.3	17330	15.9	21210	33	0.4
35-35.5711-108.7911-2-15-						0-N08367	75230	-0.06	727	6186	69	-76	7.5	44	5.4	5	1.3	22170	7.9	21790	33	0.4
35-35.5622-108.8339-2-15-						0-N08369	67070	-0.06	907	7806	82	-74	11.8	49	7.6	5	1.8	29660	9.5	20850	40	0.5
35-35.6103-108.7756-2-15-						0-N08372	54450	-0.04	669	4691	60	-66	5.1	33	3.2	5	1.1	14760	18.9	19330	28	0.4
35-35.5372-108.8006-2-15-						0-N08374	94200	-0.07	588	10010	89	-58	11.7	51	9.4	6	1.7	30320	5.6	18870	38	0.4
35-35.5597-108.8275-2-15-						0-N08375	64490	-0.05	636	11010	74	-69	7.0	28	5.0	5	1.2	16580	10.9	22650	31	0.4
35-35.5411-108.8419-2-15-						0-N08376	48510	-0.05	852	3759	62	-68	7.9	27	4.3	4	1.4	19610	10.5	19050	31	0.5
35-35.6097-108.8647-2-15-						0-N08378	64130	-0.05	686	5215	74	-67	6.5	46	3.9	6	1.3	22080	23.6	19010	35	0.5
35-35.6072-108.7439-2-15-						0-N08380	61140	-0.05	651	5785	80	-63	8.1	41	5.1	5	1.5	21390	14.3	18680	31	0.4
35-35.5764-108.7494-2-15-						0-N08381	75810	-0.07	1092	10950	90	-74	16.1	50	8.1	6	1.6	35300	18.7	20610	38	0.6
35-35.5547-108.7472-2-15-						0-N08382	50570	-0.05	714	5089	63	-65	8.9	22	5.1	4	1.4	19980	8.1	19850	28	0.4
35-35.5064-108.7153-2-15-						0-N08383	57510	-0.04	590	3123	49	-59	5.4	33	4.8	4	1.0	12600	6.8	19850	26	0.3
35-35.5392-108.7219-2-15-						0-N08384	56670	-0.05	782	5104	68	-61	8.0	38	4.8	5	1.4	18670	14.1	21160	32	0.4
35-35.5531-108.6969-2-15-						0-N08386	36160	-0.03	519	10190	29	-54	3.1	13	1.9	2	0.8	9179	7.4	19960	12	0.2
35-35.6147-108.6367-2-15-						0-N08387	53890	-0.06	658	6017	68	-67	7.9	28	5.1	4	1.5	18690	8.6	23620	31	0.4
35-35.5961-108.6336-2-15-						0-N08388	31850	-0.03	442	4081	35	-41	2.6	28	1.6	3	0.9	10510	21.1	14510	17	0.4
35-35.5825-108.6428-2-99-						0-N08389	32050	-0.03	358	3560	36	-31	2.4	21	2.6	3	0.8	8633	9.9	11080	18	0.3
35-35.5900-108.6564-2-15-						0-N08390	57110	-0.05	491	11120	63	-62	5.4	32	4.1	5	1.0	17900	9.9	18930	26	0.4
35-35.5881-108.6522-2-99-						0-N08391	52310	-0.05	516	4409	67	-49	6.0	36	4.9	5	1.4	16410	24.9	17310	36	0.5
35-35.5658-108.6394-2-15-						0-N08392	35950	-0.03	469	10920	26	-48	2.4	18	1.6	2	0.4	8955	9.2	19650	10	0.2
35-35.5547-108.6647-2-15-						0-N08393	39100	-0.04	591	14770	35	-57	3.4	27	3.1	3	0.6	15170	11.8	20000	16	0.3
35-35.5331-108.6817-2-15-						0-N08394	43190	-0.04	511	13500	31	-55	3.7	22	3.0	3	0.8	11900	7.4	18290	17	0.2
35-35.5139-108.6819-2-15-						0-N08395	56380	-0.06	740	4692	83	-67	10.1	33	5.6	5	1.6	22570	14.5	21840	38	0.5
35-35.5300-108.6394-2-15-						0-N08396	43390	-0.03	436	11250	38	-52	3.5	28	3.3	3	0.8	11840	11.5	17200	17	0.3
35-35.6514-108.5769-2-99-						0-N08397	40920	-0.04	556	7339	51	-48	4.3	22	2.6	4	1.0	14170	17.0	19780	26	0.5
35-35.6456-108.5986-2-15-						0-N08399	50490	-0.05	659	4734	62	-64	5.2	30	3.8	4	1.2	13040	11.1	20590	27	0.4
35-35.6292-108.5492-2-15-						0-N08400	50820	-0.05	608	7489	65	-61	7.0	33	4.8	5	1.5	20970	11.5	20780	34	0.5
35-35.5292-108.5239-2-15-						0-N08401	29700	-0.03	409	14770	21	-48	1.8	16	3.4	2	0.3	6634	7.8	16960	8	0.1
35-35.5869-108.5472-2-15-						0-N08404	36510	-0.03	615	5203	50	-42	2.9	23	3.1	5	1.0	11510	15.3	16750	25	0.5
35-35.5886-108.5456-2-15-						0-N08405	42030	-0.04	531	6785	53	-53	3.2	24	3.0	5	1.0	11650	14.6	16880	25	0.4
35-35.5997-108.5767-2-15-						0-N08406	39600	-0.04	563	4826	39	-55	4.5	26	3.2	3	1.0	15130	15.0	19280	20	0.4
35-35.5789-108.5992-2-15-						0-N08409	42250	-0.03	581	5962	26	-51	2.4	17	2.6	3	0.5	10260	6.9	22910	13	0.2
35-35.5394-108.5986-2-15-						0-N08412	31760	-0.03	520	13290	19	-44	2.9	30	2.4	2	0.5	12330	12.4	18300	10	0.2
35-35.5303-108.5364-2-15-						0-N08414	30930	-0.03	393	12850	24	-50	1.9	21	3.0	2	0.7	9099	13.4	16720	11	0.2
35-35.6450-108.3908-2-15-						0-N08416	71340	-0.08	534	9358	103	-68	12.3	62	9.0	6	2.0	28970	8.8	21460	48	0.5
35-35.6311-108.4250-2-15-						0-N08417	49050	-0.04	615	7519	46	-56	4.4	18	2.7	4	1.0	11930	8.8	21370	24	0.3
35-35.6297-108.4544-2-15-						0-N08418	51580	-0.04	589	8115	55	-50	5.9	23	3.6	4	1.2	14060	7.1	17930	27	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
35-	35.6394-	108.9961-	2-	12-	0-	N08348	9294	185	3621	50	-1	5.6	5.1	-130			6.9	2406	33	2.5	54	0.362
35-	35.5542-	108.9972-	2-	15-	0-	N08349	5681	285	9539	64	-1	5.5	5.6	-160	-1	-1	14.3	3869	39	5.5	53	0.308
35-	35.5372-	108.9844-	2-	15-	0-	N08350	8692	241	7917	65	1	7.6	6.5	-168	-1	-1	11.7	3926	58	4.1	50	0.316
35-	35.5081-	108.9889-	2-	15-	0-	N08352	8599	218	6156	100	-1	10.3	6.1	-153	-1	-1	13.3	4407	51	4.2	120	0.263
35-	35.5172-	108.9353-	2-	15-	0-	N08353	7049	327	9113	70	1	8.8	11.3	-167	2	1	23.3	4553	48	9.2	83	0.322
35-	35.5083-	108.9208-	2-	15-	0-	N08354	5950	226	8939	60	-1	6.1	4.2	-144	1	-1	9.1	2754	39	3.9	97	0.330
35-	35.5631-	108.9636-	2-	99-	0-	N08355	5837	388	9105	64	-1	5.6	7.1	-198	-1	-1	14.7	4274	38	4.1	44	0.299
35-	35.6033-	108.9722-	2-	15-	0-	N08356	8708	309	10100	75	-1	6.2	5.4	-179	-1	-1	12.2	4206	53	3.4	46	0.316
35-	35.5769-	108.8850-	2-	15-	0-	N08357	9235	311	9034	106	2	11.2	6.7	-177	-1	-1	16.3	3591	64	3.9	86	0.201
35-	35.5789-	108.9153-	2-	15-	0-	N08358	8865	592	10190	64	-1	7.4	4.7	-259	-1	-1	10.0	3638	68	2.3	59	0.292
35-	35.5639-	108.9047-	2-	15-	0-	N08359	7994	382	11550	87	-1	6.8	6.0	-201	-1	-1	14.3	4275	56	6.0	84	0.285
35-	35.5622-	108.9036-	2-	15-	0-	N08360	5308	327	11780	80	-1	5.3	5.1	-179	-1	-1	12.1	4588	53	5.0	50	0.331
35-	35.5761-	108.9469-	2-	15-	0-	N08361	9425	267	9801	103	-1	10.4	6.8	-168	-1	-1	16.2	4267	59	5.0	108	0.222
35-	35.5333-	108.7681-	2-	15-	0-	N08364	10460	404	12750	52	-1	5.8	5.9	-213	-1	-1	16.6	5591	56	6.6	66	0.375
35-	35.5739-	108.8706-	2-	15-	0-	N08366	6340	317	11270	98	-1	6.3	5.4	-184	-1	-1	12.2	3940	49	4.6	70	0.277
35-	35.5711-	108.7911-	2-	15-	0-	N08367	12600	333	9720	51	-1	8.4	6.0	-201	-1	-1	11.1	4765	92	3.4	74	0.438
35-	35.5622-	108.8339-	2-	15-	0-	N08369	10660	416	9255	108	-2	10.8	6.5	-193	-1	-1	14.2	3498	71	4.3	98	0.231
35-	35.6103-	108.7756-	2-	15-	0-	N08372	6278	380	10030	68	-1	5.4	4.3	-205	1	-1	10.7	4580	57	3.7	-32	0.414
35-	35.5372-	108.8006-	2-	15-	0-	N08374	18290	378	5415	95	-2	13.2	8.0	-220	-1	-1	16.3	5454	100	4.8	142	0.255
35-	35.5597-	108.8275-	2-	15-	0-	N08375	9340	317	8717	70	2	7.1	5.7	-177	-1	-1	11.5	3739	67	2.9	91	0.297
35-	35.5411-	108.8419-	2-	15-	0-	N08376	5618	282	10550	88	-1	6.6	4.8	-164	2	-1	11.1	2932	43	3.2	81	0.265
35-	35.6097-	108.8647-	2-	15-	0-	N08378	6534	404	10250	67	-1	7.5	5.4	-209	-1	-1	10.9	5533	76	3.8	-54	0.445
35-	35.6072-	108.7439-	2-	15-	0-	N08380	8469	370	9209	73	-1	8.2	5.7	-199	-1	-1	13.1	4583	70	4.5	87	0.291
35-	35.5764-	108.7494-	2-	15-	0-	N08381	15270	526	8587	91	-2	10.8	6.6	-219	-1	-1	14.8	5652	100	5.9	-51	0.304
35-	35.5547-	108.7472-	2-	15-	0-	N08382	4905	238	9567	101	-1	6.7	5.2	-153	-1	-1	11.4	2324	44	2.8	77	0.234
35-	35.5064-	108.7153-	2-	15-	0-	N08383	5767	193	8510	57	-1	5.9	4.2	-168	-1	-1	8.3	3681	54	3.2	35	0.392
35-	35.5392-	108.7219-	2-	15-	0-	N08384	7278	228	9518	74	2	7.4	6.5	-174	1	1	13.2	4658	56	5.5	72	0.298
35-	35.5531-	108.6969-	2-	15-	0-	N08386	5391	197	6244	58	-1	2.8	2.3	-137	-1		4.3	1974	27	1.7	-19	0.505
35-	35.6147-	108.6367-	2-	15-	0-	N08387	5505	227	9716	98	-1	7.4	5.4	-161	-1	-1	11.7	3279	48	3.6	73	0.286
35-	35.5961-	108.6336-	2-	15-	0-	N08388	5259	168	4389	27	-1	3.3	2.7	-132	-1		6.9	2835	32	2.6	73	0.428
35-	35.5825-	108.6428-	2-	99-	0-	N08389	5649	102	2823	34	-1	3.5	2.7	-102	-1		5.6	2197	26	1.8	30	0.404
35-	35.5900-	108.6564-	2-	15-	0-	N08390	11020	201	7602	76	-1	6.2	4.7	-152	-1	-1	9.8	3563	52	3.3	54	0.339
35-	35.5881-	108.6522-	2-	99-	0-	N08391	5659	286	3945	53	-1	6.3	6.2	-152	-1	-1	13.6	3392	45	4.9	253	0.564
35-	35.5658-	108.6394-	2-	15-	0-	N08392	5696	213	6152	42	-1	2.3	1.7	-149			3.3	1918	30	2.0	-32	0.588
35-	35.5547-	108.6647-	2-	15-	0-	N08393	7322	272	7491	70	-1	3.7	2.8	-174	-1	-1	5.5	2408	36	2.6	29	0.444
35-	35.5331-	108.6817-	2-	15-	0-	N08394	9659	268	6154	48	-1	3.8	3.0	-153	-1		4.9	2486	38	1.9	38	0.571
35-	35.5139-	108.6819-	2-	15-	0-	N08395	7191	252	8891	84	-1	8.7	6.2	-163	-1	-1	14.1	3545	56	4.4	78	0.257
35-	35.5300-	108.6394-	2-	15-	0-	N08396	10150	241	6648	43	-1	3.8	2.9	-163	-1		6.3	2386	44	2.2	33	0.486
35-	35.6514-	108.5769-	2-	99-	0-	N08397	5660	200	6866	60	-1	4.5	4.6	-148	-1	-1	10.9	3182	39	3.7	-58	0.309
35-	35.6456-	108.5986-	2-	15-	0-	N08399	7027	226	8579	64	-1	5.3	4.5	-155	-1	-1	9.3	3498	49	3.2	33	0.330
35-	35.6292-	108.5492-	2-	15-	0-	N08400	9023	192	8290	84	-1	7.3	5.3	-142	-1	-1	11.8	3091	42	3.0	-68	0.250
35-	35.5292-	108.5239-	2-	15-	0-	N08401	7822	210	6380	30	-1	1.9	1.4	-146	-1		3.1	1562	23	1.1	-20	0.523
35-	35.5869-	108.5472-	2-	15-	0-	N08404	5635	186	5565	60	-1	3.5	4.6	-133	-1		7.4	2904	34	3.7	45	0.608
35-	35.5886-	108.5456-	2-	15-	0-	N08405	9475	206	5996	41	-1	3.7	4.1	-140	-1	-1	8.1	3311	39	3.5	76	0.540
35-	35.5997-	108.5767-	2-	15-	0-	N08406	6229	227	7104	76	-1	3.9	3.2	-139	-1	-1	6.7	2217	39	2.5	39	0.478
35-	35.5789-	108.5992-	2-	15-	0-	N08409	6361	219	6340	54	-1	2.4	1.9	-152	-1		3.3	2148	39	1.5	31	1.058
35-	35.5394-	108.5986-	2-	15-	0-	N08412	6700	274	5109	56	-1	2.6	1.7	-149	-1		3.4	1853	32	1.7	-32	0.506
35-	35.5303-	108.5364-	2-	15-	0-	N08414	6201	241	5594	48	-1	2.3	1.5	-138			3.3	2058	32	2.0	40	0.609
35-	35.6450-	108.3908-	2-	15-	0-	N08416	12600	238	6290	107	-2	13.2	8.3	-175	-1	-1	18.1	3970	74	4.6	117	0.197
35-	35.6311-	108.4250-	2-	15-	0-	N08417	9813	180	8156	48	-1	4.7	3.9	-167	-1	-1	8.3	3016	42	2.5	37	0.331
35-	35.6297-	108.4544-	2-	15-	0-	N08418	8250	171	7581	58	-1	5.8	4.2	-143	-1	-1	9.7	3182	47	2.5	63	0.286

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
35-	35.6456-	108.4797-	2-	15-		0-N08419-	09/20/77-	14-	25-		-C-	-	-	-	-	13-	1-	1-	4-	6-	-1-	-2-	3-	2-	3-	1-	-1-	-	-	-	-	2.70
35-	35.5292-	108.4992-	2-	15-		0-N08420-	09/21/77-	10-	25-		-C-	-	-	-	-	5-	1-	4-	4-	4-	-1-	-2-	4-	3-	3-	1-	-1-	-	-	-	-	1.73
35-	35.5289-	108.4717-	2-	15-		0-N08421-	09/21/77-	11-	-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-2-	4-	3-	3-	1-	-9-	-	-	-	-	1.62
35-	35.5111-	108.4222-	2-	15-		0-N08423-	09/21/77-	11-	26-		-C-	-	-	-	-	5-	1-	4-	5-	4-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	1.95
35-	35.5108-	108.4050-	2-	15-		0-N08424-	09/21/77-	11-	25-		-	-	-	-	-	4-	1-	4-	5-	4-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	2.12
35-	35.5817-	108.4667-	2-	15-		0-N08427-	09/20/77-	14-	24-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-2-	4-	3-	4-	1-	-9-	-	-	-	-	3.19
35-	35.5817-	108.4708-	2-	15-		0-N08428-	09/21/77-	14-	25-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-2-	4-	3-	4-	1-	-9-	-	-	-	-	3.69
35-	35.5828-	108.4775-	2-	15-		0-N08429-	09/21/77-	14-	25-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-2-	3-	3-	4-	1-	-9-	-	-	-	-	3.44
35-	35.6083-	108.4994-	2-	15-		0-N08430-	09/21/77-	14-	25-		-C-	-	-	-	-	9-	1-	1-	5-	6-	-1-	-2-	3-	3-	4-	1-	-3-	-	-	-	-	1.96
35-	35.6044-	108.4281-	2-	15-		0-N08432-	09/20/77-	19-	19-		-	-	-	-	-	15-	1-	7-	5-	6-	-1-	-2-	4-	3-	3-	1-	-3-	-	-	-	-	3.37
35-	35.5978-	108.4303-	2-	15-		0-N08433-	09/20/77-	19-	19-		-C-	-	-	-	-	6-	1-	1-	4-	1-	-1-	-2-	4-	3-	3-	1-	-9-	-	-	-	-	3.38
35-	35.6064-	108.4550-	2-	15-		0-N08434-	09/20/77-	19-	21-		-	-	-	-	-	12-	1-	1-	4-	1-	-1-	-2-	4-	3-	3-	1-	-3-	-	-	-	-	3.14
35-	35.6183-	108.4044-	2-	15-		0-N08435-	09/20/77-	17-	23-		-	-	-	-	-	12-	1-	1-	5-	6-	-1-	-2-	4-	3-	3-	1-	-3-	-	-	-	-	2.86
35-	35.5156-	108.2581-	2-	15-		0-N08436-	09/22/77-	16-	20-		-	-	-	-	-	4-	1-	1-	5-	6-	-1-	-2-	4-	4-	4-	1-	-3-	-	-	-	-	2.81
35-	35.5278-	108.2644-	2-	15-		0-N08437-	09/22/77-	16-	20-		-	-	-	-	-	9-	1-	1-	4-	1-	-1-	-3-	4-	4-	2-	1-	-3-	-	-	-	-	2.95
35-	35.5267-	108.2792-	2-	15-		0-N08438-	09/22/77-	16-	20-		-C-	-	-	-	-	10-	1-	1-	4-	1-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	4.27
35-	35.5114-	108.2986-	2-	15-		0-N08439-	09/22/77-	16-	20-		-	-	-	-	-	5-	1-	1-	5-	6-	-1-	-2-	4-	4-	4-	1-	-1-	-	-	-	-	2.30
35-	35.5122-	108.3008-	2-	15-		0-N08440-	09/22/77-	16-	20-		-	-	-	-	-	6-	1-	1-	5-	6-	-1-	-2-	-	4-	4-	1-	-1-	-	-	-	-	2.21
35-	35.5300-	108.3044-	2-	15-		0-N08441-	09/22/77-	15-	24-		-C-	-	-	-	-	8-	1-	1-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	2.94
35-	35.5519-	108.2894-	2-	15-		0-N08442-	09/22/77-	15-	-		-C-	-	-	-	-	4-	1-	1-	5-	7-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.85
35-	35.5478-	108.2725-	2-	15-		0-N08443-	09/22/77-	15-	23-		-C-	-	-	-	-	6-	1-	1-	4-	1-	-1-	-2-	4-	3-	3-	1-	-9-	-	-	-	-	3.52
35-	35.5656-	108.2664-	2-	15-		0-N08444-	09/21/77-	19-	16-		-C-	-	-	-	-	5-	1-	1-	5-	6-	-1-	-2-	4-	3-	3-	1-	-9-	-	-	-	-	2.39
35-	35.5742-	108.2700-	2-	15-		0-N08445-	09/21/77-	19-	17-		-	-	-	-	-	9-	1-	4-	5-	6-	-1-	-2-	3-	3-	3-	1-	-3-	-	-	-	-	3.78
35-	35.5678-	108.3211-	2-	11-		0-N08448-	09/21/77-	18-	20-	14.9-	-	-	7.1-	700-	-	5-	1-	1-	5-	6-	-3-	-	-1-	3-	3-	1-	-1-	-	-	-	-	1.46
35-	35.6053-	108.2678-	2-	15-		0-N08449-	09/21/77-	18-	22-		-	-	-	-	-	16-	1-	1-	5-	6-	-1-	-2-	3-	3-	4-	1-	-3-	-	-	-	-	3.54
35-	35.5889-	108.2900-	2-	15-		0-N08450-	09/21/77-	18-	22-		-C-	-	-	-	-	18-	1-	1-	5-	6-	-1-	-2-	4-	3-	2-	1-	-9-	-	-	-	-	3.98
35-	35.6161-	108.3414-	2-	15-		0-N08452-	09/20/77-	16-	24-		-	-	-	-	-	13-	1-	1-	5-	6-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	3.91
35-	35.5214-	108.3689-	2-	15-		0-N08455-	09/21/77-	12-	25-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-1-	-2-	1-	3-	3-	1-	-1-	-	-	-	-	2.33
35-	35.6156-	108.2142-	2-	15-		0-N08456-	09/24/77-	10-	15-		-	-	-	-	-	13-	1-	1-	4-	6-	-1-	-2-	3-	3-	3-	3-	-3-	-	-	-	-	2.85
35-	35.6200-	108.1894-	2-	15-		0-N08457-	09/24/77-	10-	15-		-	-	-	-	-	11-	1-	1-	5-	6-	-1-	-2-	3-	3-	3-	3-	-3-	-	-	-	-	2.76
35-	35.6142-	108.1519-	2-	15-		0-N08458-	09/24/77-	9-	16-		-	-	-	-	-	12-	1-	1-	4-	8-	-1-	-2-	3-	3-	4-	3-	-3-	-	-	-	-	2.94
35-	35.6047-	108.1628-	2-	15-		0-N08459-	09/24/77-	9-	16-		-	-	-	-	-	10-	1-	1-	3-	1-	-1-	-2-	3-	3-	3-	3-	-3-	-	-	-	-	2.90
35-	35.5939-	108.1331-	2-	15-		0-N08460-	09/22/77-	20-	13-		-C-	-	-	-	-	16-	1-	1-	4-	6-	-1-	-2-	3-	3-	4-	1-	-9-	-	-	-	-	10.66
35-	35.5586-	108.1275-	2-	15-		0-N08461-	09/22/77-	19-	14-		-C-	-	-	-	-	9-	1-	1-	-	-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	3.26
35-	35.5814-	108.2181-	2-	15-		0-N08462-	09/22/77-	19-	19-		-	-	-	-	-	6-	1-	1-	4-	1-	-1-	-2-	3-	3-	3-	1-	-3-	-	-	-	-	3.11
35-	35.5225-	108.2042-	2-	15-		0-N08463-	09/22/77-	18-	20-		-	-	-	-	-	6-	1-	1-	6-	4-	-1-	-1-	4-	3-	2-	1-	-3-	-	-	-	-	2.92
35-	35.5053-	108.1581-	2-	15-		0-N08465-	09/22/77-	17-	20-		-C-	-	-	-	-	16-	1-	1-	5-	1-	-1-	-3-	3-	3-	3-	1-	-3-	-	-	-	-	2.56
35-	35.5100-	108.2022-	2-	15-		0-N08466-	09/22/77-	17-	20-		-C-	-	-	-	-	5-	1-	1-	4-	6-	-1-	-	-3-	3-	4-	1-	-9-	-	-	-	-	3.05
35-	35.5314-	108.2239-	2-	15-		0-N08467-	09/22/77-	17-	21-		-	-	-	-	-	17-	1-	1-	5-	6-	-1-	-2-	4-	4-	3-	1-	-3-	-	-	-	-	4.30
35-	35.5367-	108.1444-	2-	15-		0-N08469-	09/21/77-	19-	16-		-C-	-	-	-	-	13-	1-	4-	5-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.38
35-	35.5536-	108.2344-	2-	15-		0-N08469-	09/21/77-	19-	16-		-	-	-	-	-	13-	1-	4-	4-	4-	-1-	-2-	3-	3-	3-	1-	-3-	-	-	-	-	1.50
35-	35.5625-	108.0781-	2-	15-		0-N08470-	09/24/77-	19-	18-		-C-	-	-	-	-	10-	1-	1-	4-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	3.83
35-	35.5517-	108.1019-	2-	15-		0-N08471-	09/24/77-	19-	19-		-C-	-	-	-	-	13-	1-	1-	4-	6-	-1-	-	-4-	3-	3-	1-	-9-	-	-	-	-	3.55
35-	35.5233-	108.0900-	2-	15-		0-N08472-	09/24/77-	19-	19-		-C-	-	-	-	-	9-	1-	1-	5-	6-	-1-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	3.83
35-	35.5100-	108.0475-	2-	15-		0-N08474-	09/24/77-	18-	19-		-C-	-	-	-	-	10-	1-	1-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.49
35-	35.5275-	108.0258-	2-	15-		0-N08475-	09/24/77-	18-	20-		-C-	-	-	-	-	9-	1-	1-	4-	6-	-1-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	4.15
35-	35.5608-	108.0178-	2-	15-		0-N08477-	09/24/77-	18-	23-		-	-	-	-	-	13-	1-	1-	6-	6-	-1-	-2-	4-	3-	2-	1-	-3-	-	-	-	-	2.26
35-	35.6044-	108.0206-	2-	11-		0-N08478-	09/24/77-	17-	24-	14.9-	-	-	7.2-	3900-	-	10-	1-	1-	4-	6-	-3-	1-	-3-	3-	3-	2-	-1-	-	-	-	-	2.58
35-	35.6056-	108.0600-	2-	15-		0-N08479-	09/24/77-	17-	25-		-C-	-	-	-	-	9-	1-	1-	4-	1-	-1-	-2-	1-	3-	3-	2-	-3-	-	-	-	-	2.68
35-	35.6092-	108.0764-	2-	11-		0-N08480-	09/24/77-	15-	26-	24.3-	C-	-	7.9-	350-	-	8-	1-	1-	4-	1-	2-	3-	1-	-1-	3-	3-	2-	-9-	-	-	-	-	2.51
35-	35.5828-	108.1056-	2-	15-		0-N08481-	09/24/77-	13-	24-		-C-	-	-	-	-	12-	1-	1-	4-	6-	-1-	-2-	1-	3-	4-	3-	-1-	-	-	-	-	3.43

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

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
35-35.6456-108.4797-2-15-						0-N08419	-5	-5	-5	12	-20	-15	8	-10	-15	1	23
35-35.5292-108.4992-2-15-						0-N08420	-5	-5	-5	10	-20	-15	7	-10	-15	1	20
35-35.5289-108.4717-2-15-						0-N08421	-5	6	-5	11	-20	-15	11	-10	-15	1	24
35-35.5111-108.4222-2-15-						0-N08423	-5	-5	-5	24	-20	-15	-5	-10	-15	1	27
35-35.5108-108.4050-2-15-						0-N08424	-5	-5	-5	26	-20	-15	-5	-10	-15	1	39
35-35.5817-108.4667-2-15-						0-N08427	-5	-5	-5	19	-20	-15	5	-10	-15	1	19
35-35.5817-108.4708-2-15-						0-N08428	-5	5	-5	20	-20	-15	-5	-10	-15	1	14
35-35.5828-108.4775-2-15-						0-N08429	-5	7	-5	18	-20	-15	10	-10	-15	1	20
35-35.6083-108.4994-2-15-						0-N08430	-5	-5	-5	-10	-20	-15	9	-10	-15	1	21
35-35.6044-108.4281-2-15-						0-N08432	-5	5	-5	-10	-20	-15	6	-10	-15	1	32
35-35.5978-108.4303-2-15-						0-N08433	-5	-5	-5	14	-20	-15	5	-10	-15	2	23
35-35.6064-108.4550-2-15-						0-N08434	-5	-5	-5	18	-20	-15	10	-10	-15	1	16
35-35.6183-108.4044-2-15-						0-N08435	-5	8	-5	16	-20	-15	10	-10	-15	1	19
35-35.5156-108.2581-2-15-						0-N08436	-5	-5	-5	-10	-20	-15	6	-10	-15	1	23
35-35.5278-108.2644-2-15-						0-N08437	-5	6	-5	28	-20	-15	8	-10	17	1	19
35-35.5267-108.2792-2-15-						0-N08438	-5	7	-5	25	-20	-15	14	-10	-15	1	22
35-35.5114-108.2986-2-15-						0-N08439	-5	-5	-5	16	-20	-15	-5	-10	-15	-1	15
35-35.5122-108.3008-2-15-						0-N08440	-5	7	-5	22	-20	-15	-5	-10	-15	1	23
35-35.5300-108.3044-2-15-						0-N08441	-5	-5	-5	17	-20	-15	8	-10	-15	1	20
35-35.5519-108.2894-2-15-						0-N08442	-5	8	-5	21	-20	-15	6	-10	-15	1	26
35-35.5478-108.2725-2-15-						0-N08443	-5	5	-5	16	-20	-15	8	-10	-15	1	18
35-35.5656-108.2664-2-15-						0-N08444	-5	-5	-5	-10	-20	-15	5	-10	-15	-1	10
35-35.5742-108.2700-2-15-						0-N08445	-5	6	-5	18	-20	-15	12	-10	-15	1	34
35-35.5678-108.3211-2-11-						0-N08448	-5	5	-5	17	-20	-15	-5	-10	-15	-1	24
35-35.6053-108.2678-2-15-						0-N08449	-5	5	-5	17	-20	-15	13	-10	-15	2	25
35-35.5889-108.2900-2-15-						0-N08450	-5	6	-5	14	-20	-15	-5	-10	-15	2	32
35-35.6161-108.3414-2-15-						0-N08452	-5	7	-5	25	-20	-15	14	-10	-15	2	36
35-35.5214-108.3689-2-15-						0-N08455	-5	6	-5	19	-20	24	-5	-10	-15	1	21
35-35.6156-108.2142-2-15-						0-N08456	-5	-5	-5	13	-20	-15	-5	-10	-15	1	26
35-35.6200-108.1894-2-15-						0-N08457	-5	5	-5	16	-20	-15	-5	-10	-15	1	21
35-35.6142-108.1519-2-15-						0-N08458	-5	-5	-5	19	-20	18	12	-10	-15	2	16
35-35.6047-108.1628-2-15-						0-N08459	-5	-5	-5	19	-20	-15	10	-10	-15	2	31
35-35.5939-108.1331-2-15-						0-N08460	-5	12	-5	-10	-20	39	21	-10	18	1	14
35-35.5586-108.1275-2-15-						0-N08461	-5	5	-5	13	-20	-15	-5	-10	-15	1	21
35-35.5814-108.2181-2-15-						0-N08462	-5	-5	-5	18	-20	-15	9	-10	-15	1	13
35-35.5225-108.2042-2-15-						0-N08463	-5	5	-5	18	-20	-15	13	-10	-15	1	27
35-35.5053-108.1581-2-15-						0-N08465	-5	-5	-5	14	-20	-15	10	-10	-15	1	17
35-35.5100-108.2022-2-15-						0-N08466	-5	-5	-5	15	-20	-15	16	-10	-15	1	15
35-35.5314-108.2239-2-15-						0-N08467	-5	-5	-5	28	-20	-15	17	-10	-15	2	31
35-35.5367-108.1444-2-15-						0-N08468	-5	-5	-5	25	-20	-15	11	-10	-15	2	30
35-35.5536-108.2344-2-15-						0-N08469	-5	-5	-5	20	-20	-15	-5	-10	-15	-1	12
35-35.5625-108.0781-2-15-						0-N08470	-5	-5	-5	10	-20	-15	6	-10	-15	1	18
35-35.5517-108.1019-2-15-						0-N08471	-5	-5	-5	21	-20	-15	11	-10	-15	1	20
35-35.5233-108.0900-2-15-						0-N08472	-5	-5	-5	27	-20	-15	21	-10	-15	2	33
35-35.5100-108.0475-2-15-						0-N08474	-5	-5	-5	16	-20	18	10	-10	-15	1	25
35-35.5275-108.0258-2-15-						0-N08475	-5	-5	-5	15	-20	-15	18	-10	-15	1	21
35-35.5608-108.0178-2-15-						0-N08477	-5	-5	-5	19	-20	-15	7	-10	-15	1	24
35-35.6044-108.0206-2-11-						0-N08478	-5	-5	-5	20	-20	-15	9	-10	-15	1	15
35-35.6056-108.0600-2-15-						0-N08479	-5	-5	-5	-10	-20	-15	9	-10	-15	1	22
35-35.6092-108.0764-2-11-						0-N08480	-5	-5	-5	15	-20	-15	-5	-10	-15	1	19
35-35.5828-108.1056-2-15-						0-N08481	-5	-5	-5	10	-20	-15	7	-10	-15	1	21

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-	35.6456-	108.4797-	2-	15-	0-	N08419	47160	-0.05	412	13130	51	-54	4.5	31	2.9	4	1.1	13590	8.1	16450	25	0.3
35-	35.5292-	108.4992-	2-	15-	0-	N08420	28320	-0.03	427	16120	21	109	2.3	22	3.7	2	0.7	8661	7.3	18450	15	0.2
35-	35.5289-	108.4717-	2-	15-	0-	N08421	31300	-0.03	485	17570	20	-51	2.2	17	1.9	2	0.6	6394	7.6	17330	10	0.2
35-	35.5111-	108.4222-	2-	15-	0-	N08423	35500	-0.04	426	55200	46	-68	4.6	29	2.1	4	1.0	13120	8.6	10950	24	0.3
35-	35.5108-	108.4050-	2-	15-	0-	N08424	43860	-0.05	498	49800	52	-84	5.1	42	2.0	4	1.0	14950	8.6	13620	21	0.3
35-	35.5817-	108.4667-	2-	15-	0-	N08427	43120	-0.05	561	17870	50	-62	4.5	25	4.6	4	1.3	16030	12.6	18280	25	0.4
35-	35.5817-	108.4708-	2-	15-	0-	N08428	34780	-0.03	743	12040	37	-52	2.9	37	3.0	4	1.2	10420	31.1	17550	17	0.5
35-	35.5828-	108.4775-	2-	15-	0-	N08429	42800	-0.04	507	22690	56	-61	6.0	32	5.2	4	1.4	18250	20.5	19750	30	0.5
35-	35.6083-	108.4994-	2-	15-	0-	N08430	41050	-0.03	319	8747	36	-38	3.2	18	3.0	3	0.7	10220	3.7	14180	17	0.2
35-	35.6044-	108.4281-	2-	15-	0-	N08432	53960	-0.04	497	10690	67	-53	8.2	39	4.6	5	1.2	24790	13.5	17200	24	0.4
35-	35.5978-	108.4303-	2-	15-	0-	N08433	46950	-0.04	496	7147	58	-56	4.0	24	3.5	5	1.1	13050	11.3	17140	26	0.4
35-	35.6064-	108.4550-	2-	15-	0-	N08434	34170	-0.04	399	6050	53	-42	4.0	22	3.4	4	1.0	12480	10.1	13410	24	0.4
35-	35.6183-	108.4044-	2-	15-	0-	N08435	40530	-0.03	429	5186	35	-56	2.5	18	1.8	3	0.8	8003	14.8	16050	17	0.3
35-	35.5156-	108.2581-	2-	15-	0-	N08436	42900	-0.03	349	10040	51	-41	4.2	35	2.8	4	0.9	15020	13.6	16160	25	0.4
35-	35.5278-	108.2644-	2-	15-	0-	N08437	37000	-0.03	416	2298	46	-51	2.4	20	1.8	4	0.8	9354	10.1	17570	18	0.4
35-	35.5267-	108.2792-	2-	15-	0-	N08438	46720	-0.06	473	4138	83	-60	7.1	49	5.2	6	1.6	21820	32.5	14970	41	0.7
35-	35.5114-	108.2986-	2-	15-	0-	N08439	36570	-0.03	409	2486	35	-43	2.5	19	2.1	3	0.7	7302	7.8	15340	14	0.3
35-	35.5122-	108.3008-	2-	15-	0-	N08440	40990	-0.03	510	2871	49	-47	3.8	21	3.6	4	1.0	10250	6.3	16080	23	0.3
35-	35.5300-	108.3044-	2-	15-	0-	N08441	37740	-0.03	415	4731	39	-50	3.1	23	3.2	4	0.9	9519	23.9	17620	17	0.5
35-	35.5519-	108.2894-	2-	15-	0-	N08442	40200	-0.04	316	13970	57	-45	5.0	32	5.0	3	1.0	17550	6.5	14160	27	0.3
35-	35.5478-	108.2725-	2-	15-	0-	N08443	37010	-0.03	458	4928	42	-45	2.7	23	1.9	4	0.8	8916	14.1	14600	19	0.4
35-	35.5656-	108.2664-	2-	15-	0-	N08444	22590	-0.03	319	2508	32	-32	1.8	19	1.7	3	0.8	6484	18.9	12180	14	0.4
35-	35.5742-	108.2700-	2-	15-	0-	N08445	62370	-0.05	476	10500	72	-64	6.3	27	4.6	5	1.2	20050	10.5	20520	24	0.5
35-	35.5678-	108.3211-	2-	11-	0-	N08448	33340	-0.04	299	2859	46	-39	3.8	21	3.3	3	0.8	15130	5.6	13560	23	0.2
35-	35.6053-	108.2678-	2-	15-	0-	N08449	59540	-0.04	584	4752	56	-58	5.0	30	3.9	4	1.0	14100	7.6	21950	25	0.3
35-	35.5889-	108.2900-	2-	15-	0-	N08450	63830	-0.04	484	4549	65	-55	6.5	34	4.7	5	1.2	22360	16.1	21290	29	0.5
35-	35.6161-	108.3414-	2-	15-	0-	N08452	75820	-0.05	429	8185	84	-64	7.1	33	5.7	6	1.3	27130	6.3	20860	30	0.4
35-	35.5214-	108.3689-	2-	15-	0-	N08455	35530	-0.04	534	20590	38	-61	4.2	37	3.5	3	1.1	16380	18.8	16210	19	0.4
35-	35.6156-	108.2142-	2-	15-	0-	N08456	44550	-0.03	448	24230	48	-49	3.8	23	3.3	4	0.8	13980	8.8	16140	20	0.3
35-	35.6200-	108.1894-	2-	15-	0-	N08457	48890	-0.04	529	15450	60	-54	5.0	27	3.0	4	1.2	16120	9.5	19660	25	0.4
35-	35.6142-	108.1519-	2-	15-	0-	N08458	58600	-0.04	555	4456	62	-60	6.3	25	4.0	5	1.1	12070	7.2	19980	24	0.3
35-	35.6047-	108.1628-	2-	15-	0-	N08459	57910	-0.06	579	9228	84	-73	8.1	41	5.6	5	1.8	25100	13.0	20710	36	0.5
35-	35.5939-	108.1331-	2-	15-	0-	N08460	33090	-0.04	847	7147	151	-45	3.6	44	1.6	11	1.5	9805	109.0	14070	66	1.4
35-	35.5586-	108.1275-	2-	15-	0-	N08461	52590	-0.04	543	9887	58	-48	6.3	29	4.3	5	1.1	15050	10.5	17430	29	0.3
35-	35.5814-	108.2181-	2-	15-	0-	N08462	40560	-0.04	553	10240	53	-54	3.6	19	3.2	4	1.0	10320	16.7	18420	23	0.4
35-	35.5225-	108.2042-	2-	15-	0-	N08463	59530	-0.06	479	14960	83	-58	10.2	56	6.0	6	1.5	29330	8.8	20120	39	0.4
35-	35.5053-	108.1581-	2-	15-	0-	N08465	36220	-0.03	308	10390	42	-41	3.0	23	1.8	4	0.7	10340	10.5	15910	18	0.3
35-	35.5100-	108.2022-	2-	15-	0-	N08466	39860	-0.03	410	14560	52	-38	4.1	31	2.9	4	1.0	15470	17.5	16580	22	0.4
35-	35.5314-	108.2239-	2-	15-	0-	N08467	71490	-0.05	451	11520	95	-62	6.5	44	6.2	6	1.3	24110	9.6	20170	32	0.5
35-	35.5367-	108.1444-	2-	15-	0-	N08468	66670	-0.06	387	7689	78	-58	9.3	46	6.9	5	1.4	30840	7.9	20490	37	0.5
35-	35.5536-	108.2344-	2-	15-	0-	N08469	26560	-0.02	464	8621	26	-37	2.7	16	1.7	2	0.4	7266	5.7	10570	12	0.2
35-	35.5625-	108.0781-	2-	15-	0-	N08470	49770	-0.04	653	5709	69	-47	4.9	30	4.0	6	1.4	14150	22.1	20320	30	0.5
35-	35.5517-	108.1019-	2-	15-	0-	N08471	48120	-0.04	374	12940	67	-50	5.0	34	4.0	5	0.9	13260	16.5	16410	25	0.5
35-	35.5233-	108.0900-	2-	15-	0-	N08472	75720	-0.08	624	11350	106	-68	9.9	55	9.7	6	2.0	32360	8.7	23690	49	0.5
35-	35.5100-	108.0475-	2-	15-	0-	N08474	44510	-0.03	365	23860	43	-44	3.9	21	1.9	4	0.8	13080	6.5	14950	20	0.3
35-	35.5275-	108.0258-	2-	15-	0-	N08475	47780	-0.04	592	10080	74	-46	6.0	32	4.7	6	1.5	16590	22.2	17760	34	0.6
35-	35.5608-	108.0178-	2-	15-	0-	N08477	51340	-0.04	492	9967	62	-53	4.3	22	3.1	4	1.0	12980	5.4	18500	23	0.3
35-	35.6044-	108.0206-	2-	11-	0-	N08478	34570	-0.04	472	13470	62	-48	5.0	24	3.5	4	1.2	16880	12.1	16460	30	0.4
35-	35.6056-	108.0600-	2-	15-	0-	N08479	41760	-0.03	520	9020	42	-54	2.6	15	1.3	3	0.8	9094	12.1	15800	19	0.3
35-	35.6092-	108.0764-	2-	11-	0-	N08480	44120	-0.03	600	5564	49	-53	3.2	16	2.4	3	1.1	10280	9.9	22200	24	0.3
35-	35.5828-	108.1056-	2-	15-	0-	N08481	46870	-0.04	584	2769	63	-50	4.7	29	4.1	4	1.1	11870	15.8	19510	25	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	
35-35.6456-108.4797-2-15-						0-N08419	15320	161	5908	42	-1	5.7	4.5	-135	-1	-1	8.9	3219	43	2.2	-15	0.303
35-35.5292-108.4992-2-15-						0-N08420	6832	195	6081	59	-1	2.6	2.1	-129	-1		3.8	1240	21	1.8	31	0.455
35-35.5289-108.4717-2-15-						0-N08421	10050	202	6974	38	-1	2.1	1.4	-150	-1		2.4	1396	25	1.5	-14	0.675
35-35.5111-108.4222-2-15-						0-N08423	14470	570	8495	56	-1	5.2	4.2	-226	-1	-1	6.7	3164	43	2.6	47	0.291
35-35.5108-108.4050-2-15-						0-N08424	20870	584	10720	32	-1	5.7	4.5	-227	-1	-1	6.0	2438	49	2.3	89	0.353
35-35.5817-108.4667-2-15-						0-N08427	7519	300	7162	93	-1	4.8	4.3	-163	-1	-1	7.8	2603	38	2.8	47	0.409
35-35.5817-108.4708-2-15-						0-N08428	4931	355	5221	43	-1	2.9	2.8	-160	-1	-1	5.6	2398	32	3.7	-18	0.659
35-35.5828-108.4775-2-15-						0-N08429	9685	355	5919	78	-1	5.3	4.4	-171	-1	-1	9.3	2807	53	3.7	61	0.370
35-35.6083-108.4994-2-15-						0-N08430	8072	136	3276	41	-1	3.4	2.8	-128	-1		5.6	1658	37	1.4	32	0.350
35-35.6044-108.4281-2-15-						0-N08432	10560	273	6921	60	-1	7.1	5.2	-167	-1	-1	10.3	3435	57	3.9	83	0.327
35-35.5978-108.4303-2-15-						0-N08433	7736	233	5830	55	-1	4.3	4.9	-150	-1	-1	8.1	2395	37	3.1	53	0.417
35-35.6064-108.4550-2-15-						0-N08434	7307	123	4184	50	-1	4.3	4.1	-107	-1	1	8.3	1799	26	3.3	48	0.378
35-35.6183-108.4044-2-15-						0-N08435	4115	138	10040	48	-1	3.2	2.6	-146	-1		5.8	2566	28	2.6	-12	0.493
35-35.5156-108.2581-2-15-						0-N08436	13600	181	4173	56	-1	5.2	4.6	-137	-1	-1	11.3	3061	38	3.6	69	0.249
35-35.5278-108.2644-2-15-						0-N08437	7612	156	6334	55	-1	3.7	3.3	-126	1		9.1	3771	32	2.8	52	0.324
35-35.5267-108.2792-2-15-						0-N08438	8254	312	5696	72	-1	8.0	6.9	-170	-1	-1	15.5	3809	41	5.8	42	0.275
35-35.5114-108.2986-2-15-						0-N08439	4996	182	4509	37	1	2.8	2.3	-143	-1		4.6	2197	28	1.5		0.500
35-35.5122-108.3008-2-15-						0-N08440	7459	267	5198	55	-1	4.0	4.0	-161	-1		6.1	2139	31	2.6	58	0.362
35-35.5300-108.3044-2-15-						0-N08441	7439	176	5584	-13	-1	3.4	3.1	-130	-1		8.0	2705	33	2.8	-44	0.368
35-35.5519-108.2894-2-15-						0-N08442	15650	119	3747	72	-1	5.8	4.3	-110	-1	-1	9.8	1801	32	2.3	52	0.291
35-35.5478-108.2725-2-15-						0-N08443	5443	200	4865	42	-1	3.5	3.0	-150	-1		6.1	2882	29	3.1	25	0.577
35-35.5656-108.2664-2-15-						0-N08444	3782	109	3251	38	-1	2.3	2.6	-102	-1		5.1	1967	18	2.7	17	0.469
35-35.5742-108.2700-2-15-						0-N08445	12950	193	8044	74	-1	7.0	5.2	-158	-1	-1	11.8	4418	60	3.4	-62	0.320
35-35.5678-108.3211-2-11-						0-N08448	7234	109	3403	51	-1	4.7	3.4	-103	-1	-1	6.4	1585	29	1.6	-51	0.228
35-35.6053-108.2678-2-15-						0-N08449	7083	205	9061	63	-1	5.9	4.0	-170	-1	-1	9.1	3517	55	2.4	-15	0.389
35-35.5889-108.2900-2-15-						0-N08450	10460	189	8806	81	-1	7.7	5.9	-159	-1	-1	13.2	3742	53	4.0	65	0.302
35-35.6161-108.3414-2-15-						0-N08452	13970	232	7052	77	2	9.4	6.8	-165	-1	-1	14.1	4672	82	3.7	81	0.277
35-35.5214-108.3689-2-15-						0-N08455	9469	320	7097	58	-1	4.7	3.4	-161	-1	-1	6.2	2470	38	2.6	72	0.376
35-35.6156-108.2142-2-15-						0-N08456	20710	170	5308	48	-1	4.9	4.1	-150	-1	-1	9.0	3014	40	3.6	38	0.317
35-35.6200-108.1894-2-15-						0-N08457	14990	199	8305	72	-1	5.8	5.3	-155	-1	-1	9.7	3079	41	4.0	50	0.285
35-35.6142-108.1519-2-15-						0-N08458	7191	244	7414	78	-1	5.9	4.6	248	-1	-1	8.7	3443	58	2.8	56	0.338
35-35.6047-108.1628-2-15-						0-N08459	11940	297	9138	118	-1	9.0	6.8	-180	-1	-1	14.5	3060	50	4.6	92	0.200
35-35.5939-108.1331-2-15-						0-N08460	9006	235	4985	37	-1	5.0	10.4	-152	-1	1	31.0	3962	35	10.4	46	0.344
35-35.5586-108.1275-2-15-						0-N08461	11560	186	5863	61	-1	6.5	5.6	-148	-1	-1	10.8	3458	48	2.9	71	0.302
35-35.5814-108.2181-2-15-						0-N08462	10880	154	6415	50	-1	4.4	4.1	-129	-1	-1	9.6	3233	35	3.0	36	0.324
35-35.5225-108.2042-2-15-						0-N08463	16450	357	4812	96	-1	10.0	6.5	-178	-1	-1	15.5	3428	55	4.0	73	0.188
35-35.5053-108.1581-2-15-						0-N08465	15160	137	4285	-11	-1	3.5	3.0	-129			7.2	2776	27	2.7	-14	0.356
35-35.5100-108.2022-2-15-						0-N08466	17140	155	3734	46	-1	5.0	4.4	-126	-1	-1	10.5	3032	33	3.9	76	0.290
35-35.5314-108.2239-2-15-						0-N08467	14990	244	6394	87	-1	9.1	6.2	-167	-1	-1	16.5	4972	74	4.1	-75	0.261
35-35.5367-108.1444-2-15-						0-N08468	11450	205	6277	81	-1	10.8	6.4	-148	-1	-1	15.6	3425	69	3.6	78	0.217
35-35.5536-108.2344-2-15-						0-N08469	4272	159	3562	-11	-1	2.4	1.7	-126	-1		3.2	1775	24	1.1	-17	0.469
35-35.5625-108.0781-2-15-						0-N08470	8790	174	6539	73	-1	6.1	6.3	-141	-1	-1	14.7	3744	48	4.2	69	0.261
35-35.5517-108.1019-2-15-						0-N08471	11620	158	4910	46	-1	6.0	4.5	-129	-1	-1	9.2	3568	48	3.7	88	0.386
35-35.5233-108.0900-2-15-						0-N08472	16010	274	5317	112	-2	13.3	8.3	-198	-2	-1	15.7	4495	83	4.1	147	0.244
35-35.5100-108.0475-2-15-						0-N08474	18620	161	3988	37	-1	4.0	3.3	-142	-1	-1	7.4	2297	35	1.8	-21	0.336
35-35.5275-108.0258-2-15-						0-N08475	11140	216	5837	62	2	6.6	6.6	-152	-1	-1	12.9	4218	52	5.0	-71	0.322
35-35.5608-108.0178-2-15-						0-N08477	11030	177	5776	64	-1	5.4	4.0	-137	-1	-1	8.2	2615	47	2.2	45	0.276
35-35.6044-108.0206-2-11-						0-N08478	13410	150	4457	58	-1	5.8	5.2	-122	-1	1	10.6	2236	37	2.9	57	0.243
35-35.6056-108.0600-2-15-						0-N08479	9371	132	9076	58	-1	3.3	3.0	-146	-1		6.5	2096	30	2.7	22	0.412
35-35.6092-108.0764-2-11-						0-N08480	5815	138	10010	61	-1	3.9	3.9	-139	-1		8.0	2254	32	2.8	47	0.314
35-35.5828-108.1056-2-15-						0-N08481	7704	173	5268	61	-1	5.1	4.7	-134	-1	-1	10.9	3321	48	3.1	88	0.315

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 (mU.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
35-35.6239-108.1067-2-15-						0-N08482-09/22/77-20-	13-		-	-	-	-	-	-	11-1-1-3-6-	-1-	-2-3-2-4-1-	-8-	-	-	-	-	-	-	-	-	2.98
35-35.5286-108.1150-2-15-						0-N08483-09/22/77-19-	14-		-	-	-	-	-	-	13-1-1-5-6-	-1-	-2-3-3-3-1-	-3-	-	-	-	-	-	-	-	-	3.76
35-35.7289-108.0200-2-15-						0-N08484-09/24/77-18-	20-		-C-	-	-	-	-	-	139-1-6-3-6-	-1-	-1-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	3.21
35-35.7094-108.0172-2-15-						0-N08485-09/24/77-18-	21-		-	-	-	-	-	-	69-1-1-4-1-	-1-	-1-4-3-3-2-	-1-	-	-	-	-	-	-	-	-	3.11
35-35.7186-108.1094-2-15-						0-N08488-09/24/77-14-	21-		-	-	-	-	-	-	115-1-1-4-1-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	2.75
35-35.6386-108.1122-2-15-						0-N08490-09/24/77-13-	23-		-	-	-	-	-	-	69-1-1-3-1-	-1-	-2-3-2-3-2-	-1-	-	-	-	-	-	-	-	-	2.07
35-35.6642-108.0722-2-15-						0-N08491-09/24/77-13-	23-		-	-	-	-	-	-	127-1-1-4-1-	-1-	-1-4-3-3-3-	-1-	-	-	-	-	-	-	-	-	3.44
35-35.6897-108.0144-2-15-						0-N08492-09/24/77-12-	22-		-	-	-	-	-	-	46-1-1-4-6-	-1-	-1-4-3-3-3-	-1-	-	-	-	-	-	-	-	-	3.32
35-35.6497-108.0228-2-15-						0-N08493-09/24/77-12-	22-		-C-	-	-	-	-	-	69-1-1-4-9-	-1-	-1-4-3-2-3-	-1-	-	-	-	-	-	-	-	-	3.36
35-35.6772-108.0647-2-15-						0-N08495-09/24/77-12-	21-		-	-	-	-	-	-	127-1-1-3-1-	-1-	-2-4-2-2-3-	-1-	-	-	-	-	-	-	-	-	3.18
35-35.7008-108.0650-2-15-						0-N08496-09/24/77-11-	21-		-	-	-	-	-	-	115-1-1-4-1-	-1-	-2-4-4-3-3-	-1-	-	-	-	-	-	-	-	-	3.18
35-35.6744-108.1061-2-15-						0-N08498-09/24/77-11-	20-		-C-	-	-	-	-	-	104-1-1-4-1-	-1-	-2-4-2-3-3-	-9-	-	-	-	-	-	-	-	-	5.33
35-35.6264-108.2769-2-15-						0-N08499-09/21/77-17-	23-		-C-	-	-	-	-	-	12-1-1-5-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	4.13
35-35.7478-108.2169-2-15-						0-N08501-09/23/77-14-	24-		-	-	-	-	-	-	81-1-1-4-1-	-1-	-1-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	3.99
35-35.7361-108.1856-2-15-						0-N08502-09/23/77- 9-	18-		-	-	-	-	-	-	69-1-1-4-1-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	2.21
35-35.7494-108.1694-2-15-						0-N08503-09/23/77-11-	19-		-	-	-	-	-	-	104-1-1-4-1-	-1-	-2-4-3-3-2-	-1-	-	-	-	-	-	-	-	-	2.02
35-35.7075-108.1867-2-15-						0-N08504-09/23/77- 8-	17-		-	-	-	-	-	-	162-1-1-4-1-	-1-	-1-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	3.77
35-35.7053-108.2069-2-15-						0-N08505-09/23/77- 8-	16-		-	-	-	-	-	-	92-1-1-4-1-	-1-	-1-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	3.36
35-35.6950-108.1808-2-15-						0-N08507-09/23/77- 8-	15-		-	-	-	-	-	-	104-1-1-4-1-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	3.92
35-35.6803-108.1256-2-15-						0-N08508-09/23/77- 7-	15-		-	-	-	-	-	-	115-1-1-4-1-	-1-	-2-4-3-3-2-	-1-	-	-	-	-	-	-	-	-	3.51
35-35.7742-108.2625-2-15-						0-N08511-09/24/77- 8-	14-		-	-	-	-	-	-	115-1-1-4-1-	-1-	-2-3-2-3-3-	-1-	-	-	-	-	-	-	-	-	2.09
35-35.8094-108.1969-2-15-						0-N08513-09/23/77-17-	22-		-	-	-	-	-	-	139-1-1-4-1-	-1-	-1-4-3-3-2-	-1-	-	-	-	-	-	-	-	-	3.34
35-35.7611-108.1269-2-15-						0-N08515-09/23/77-15-	24-		-	-	-	-	-	-	115-1-1-4-1-	-1-	-1-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	3.25
35-35.7714-108.2136-2-15-						0-N08516-09/23/77-14-	23-		-	-	-	-	-	-	139-1-1-5-1-	-1-	-1-4-4-2-1-	-1-	-	-	-	-	-	-	-	-	3.25
35-35.7817-108.2297-2-15-						0-N08517-09/23/77-14-	23-		-	-	-	-	-	-	115-1-1-5-1-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	4.00
35-35.7883-108.2067-2-15-						0-N08518-09/23/77-15-	23-		-	-	-	-	-	-	104-1-1-5-1-	-1-	-1-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	2.54
35-35.7656-108.1894-2-15-						0-N08520-09/23/77-13-	-		-	-	-	-	-	-	150-1-1-5-1-	-1-	-1-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	3.81
35-35.8364-108.1258-2-15-						0-N08523-09/22/77-17-	18-		-C-	-	-	-	-	-	173-1-1-4-1-	-1-	-2-3-3-2-3-	-1-	-	-	-	-	-	-	-	-	3.42
35-35.8492-108.1564-2-15-						0-N08524-09/22/77-15-	14-		-C-	-	-	-	-	-	69-1-1-4-1-	-1-	-1-3-2-2-4-	-1-	-	-	-	-	-	-	-	-	2.89
35-35.8536-108.1786-2-15-						0-N08525-09/22/77-15-	15-		-	-	-	-	-	-	173-1-1-4-1-	-1-	-1-4-3-3-4-	-1-	-	-	-	-	-	-	-	-	3.40
35-35.8586-108.2181-2-15-						0-N08527-09/22/77-14-	24-		-	-	-	-	-	-	127-1-1-5-1-	-1-	-2-4-3-2-3-	-1-	-	-	-	-	-	-	-	-	3.38
35-35.8003-108.0933-2-15-						0-N08530-09/24/77-16-	22-		-	-	-	-	-	-	115-1-1-5-7-	-1-	-1-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	3.82
35-35.7903-108.0919-2-15-						0-N08531-09/24/77-17-	23-		-	-	-	-	-	-	92-1-1-4-6-	-1-	-1-4-3-3-2-	-1-	-	-	-	-	-	-	-	-	3.34
35-35.8433-108.0617-2-15-						0-N08533-09/24/77-16-	21-		-	-	-	-	-	-	115-1-1-5-1-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	3.38
35-35.8519-108.0558-2-15-						0-N08534-09/24/77-16-	21-		-C-	-	-	-	-	-	115-1-1-4-1-	-1-	-2-3-3-2-2-	-9-	-	-	-	-	-	-	-	-	3.14
35-35.8422-108.0422-2-15-						0-N08535-09/24/77-15-	22-		-	-	-	-	-	-	92-1-1-5-1-	-1-	-1-4-3-3-2-	-1-	-	-	-	-	-	-	-	-	3.41
35-35.8125-108.0472-2-15-						0-N08537-09/24/77-15-	22-		-	-	-	-	-	-	162-1-1-5-6-	-1-	-2-3-4-2-2-	-1-	-	-	-	-	-	-	-	-	3.51
35-35.7747-108.1150-2-15-						0-N08539-09/23/77-15-	24-		-C-	-	-	-	-	-	121-1-1-4-6-	-1-	-1-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	3.14
35-35.7878-108.0194-2-15-						0-N08540-09/24/77-15-	21-		-	-	-	-	-	-	81-1-1-4-1-	-1-	-2-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	2.70
35-35.8125-108.1167-2-15-						0-N08541-09/22/77-18-	14-		-C-	-	-	-	-	-	104-1-1-4-1-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	3.10
35-35.8672-108.0728-2-15-						0-N08542-09/22/77-16-	20-		-C-	-	-	-	-	-	150-1-1-4-1-	-1-	-2-4-4-2-3-	-1-	-	-	-	-	-	-	-	-	3.88
35-35.8772-108.0772-2-15-						0-N08544-09/19/77-14-	30-		-	-	-	-	-	-	12-1-6-5-6-	-1-	-1-4-4-2-2-	-1-	-	-	-	-	-	-	-	-	3.14
35-35.8869-108.0839-2-15-						0-N08545-09/19/77-14-	29-		-	-	-	-	-	-	9-1-6-5-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	-	-	-	-	-	2.77
35-35.9053-108.1003-2-15-						0-N08547-09/19/77-12-	30-		-	-	-	-	-	-	5-1-6-4-6-	-1-	-2-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	2.96
35-35.9556-108.1017-2-15-						0-N08549-09/18/77-19-	19-		-	-	-	-	-	-	9-1-6-	-	- -1-	-2-3-4-3-1-	-3-	-	-	-	-	-	-	-	-	3.61
35-35.9442-108.0917-2-15-						0-N08550-09/18/77-19-	20-		-	-	-	-	-	-	19-1-6-5-6-	-1-	-2-4-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	3.28
35-35.9358-108.0753-2-15-						0-N08551-09/18/77-19-	21-		-	-	-	-	-	-	9-1-6-5-6-	-1-	-2-3-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	2.94
35-35.9031-108.0206-2-15-						0-N08554-09/18/77-17-	24-		-C-	-	-	-	-	-	11-1-6-4-6-	-1-	-2-4-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	2.92
35-35.9028-108.0283-2-15-						0-N08555-09/18/77-17-	27-		-C-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	3.08
35-35.9206-108.0481-2-15-						0-N08556-09/18/77-17-	25-		-	-	-	-	-	-	15-1-6-5-6-	-1-	-2-4-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	2.97
35-35.9647-108.0217-2-15-						0-N08557-09/18/77-16-	27-		-	-	-	-	-	-	13-1-6-4-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	2.78

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
35-	35.6239-	108.1067-	2-	15-	0-	N08492	-5	-5	-5	22	-20	-15	11	-10	-15	1	22
35-	35.5286-	108.1150-	2-	15-	0-	N08493	-5	6	-5	24	-20	-15	14	-10	-15	2	38
35-	35.7289-	108.0200-	2-	15-	0-	N08484	-5	-5	-5	21	-20	-15	11	-10	-15	1	24
35-	35.7094-	108.0172-	2-	15-	0-	N08485	-5	-5	-5	33	-20	-15	10	-10	-15	2	34
35-	35.7186-	108.1094-	2-	15-	0-	N08488	-5	6	-5	15	-20	20	10	-10	-15	2	25
35-	35.6386-	108.1122-	2-	15-	0-	N08490	-5	5	-5	17	-20	-15	-5	-10	-15	1	18
35-	35.6642-	108.0722-	2-	15-	0-	N08491	-5	-5	-5	23	-20	-15	7	-10	-15	1	23
35-	35.6897-	108.0144-	2-	15-	0-	N08492	-5	-5	-5	28	-20	-15	9	-10	-15	2	40
35-	35.6497-	108.0228-	2-	15-	0-	N08493	-5	-5	-5	21	-20	-15	9	-10	-15	1	26
35-	35.6772-	108.0647-	2-	15-	0-	N08495	-5	6	-5	17	-20	-15	-5	-10	-15	1	30
35-	35.7008-	108.0650-	2-	15-	0-	N08496	-5	-5	-5	21	-20	-15	6	-10	-15	2	20
35-	35.6744-	108.1061-	2-	15-	0-	N08498	-5	-5	-5	12	-20	-15	-5	-10	-15	1	14
35-	35.6264-	108.2769-	2-	15-	0-	N08499	-5	5	-5	14	-20	-15	-5	-10	-15	1	22
35-	35.7478-	108.2169-	2-	15-	0-	N08501	-5	-5	-5	15	-20	-15	9	-10	-15	1	23
35-	35.7361-	108.1856-	2-	15-	0-	N08502	-5	-5	-5	14	-20	-15	-5	-10	-15	1	27
35-	35.7494-	108.1694-	2-	15-	0-	N08503	-5	-5	-5	18	-20	-15	6	-10	-15	-1	16
35-	35.7075-	108.1867-	2-	15-	0-	N08504	-5	10	-5	21	-20	-15	9	-10	-15	2	33
35-	35.7053-	108.2069-	2-	15-	0-	N08505	-5	6	-5	14	-20	-15	6	-10	-15	1	17
35-	35.6950-	108.1808-	2-	15-	0-	N08507	-5	-5	-5	18	-20	-15	11	-10	-15	2	29
35-	35.6803-	108.1256-	2-	15-	0-	N08508	-5	-5	-5	13	-20	-15	9	-10	-15	1	22
35-	35.7742-	108.2625-	2-	15-	0-	N08511	-5	-5	-5	12	-20	-15	-5	-10	-15	-1	7
35-	35.8094-	108.1969-	2-	15-	0-	N08513	-5	-5	-5	17	-20	-15	-5	-10	-15	2	36
35-	35.7611-	108.1269-	2-	15-	0-	N08515	-5	7	-5	10	-20	-15	-5	-10	-15	1	26
35-	35.7714-	108.2136-	2-	15-	0-	N08516	-5	-5	-5	14	-20	-15	6	-10	-15	1	30
35-	35.7817-	108.2297-	2-	15-	0-	N08517	-5	6	-5	18	-20	-15	8	-10	-15	1	30
35-	35.7883-	108.2067-	2-	15-	0-	N08518	-5	-5	-5	24	-20	-15	-5	-10	-15	1	30
35-	35.7656-	108.1894-	2-	15-	0-	N08520	-5	6	-5	34	-20	23	-5	-10	-15	3	46
35-	35.8364-	108.1258-	2-	15-	0-	N08523	-5	5	-5	15	-20	-15	5	-10	-15	2	36
35-	35.8492-	108.1564-	2-	15-	0-	N08524	-5	-5	-5	16	-20	-15	7	-10	-15	1	26
35-	35.8536-	108.1786-	2-	15-	0-	N08525	-5	-5	-5	27	-20	-15	7	-10	-15	1	30
35-	35.8586-	108.2181-	2-	15-	0-	N08527	-5	-5	-5	36	-20	-15	14	-10	-15	2	28
35-	35.8003-	108.0933-	2-	15-	0-	N08530	-5	-5	-5	35	-20	-15	13	-10	-15	2	31
35-	35.7903-	108.0919-	2-	15-	0-	N08531	-5	6	-5	21	-20	-15	11	-10	-15	1	26
35-	35.8433-	108.0617-	2-	15-	0-	N08533	-5	6	5	25	-20	-15	8	-10	-15	2	38
35-	35.8519-	108.0558-	2-	15-	0-	N08534	-5	-5	-5	21	-20	-15	5	-10	-15	2	27
35-	35.8422-	108.0422-	2-	15-	0-	N08535	-5	-5	-5	17	-20	-15	15	-10	-15	2	33
35-	35.8125-	108.0472-	2-	15-	0-	N08537	-5	5	-5	33	-20	-15	10	-10	-15	2	34
35-	35.7747-	108.1150-	2-	15-	0-	N08539	-5	-5	-5	19	-20	-15	10	-10	-15	2	36
35-	35.7878-	108.0194-	2-	15-	0-	N08540	-5	-5	-5	13	-20	-15	-5	-10	-15	-1	10
35-	35.8125-	108.1167-	2-	15-	0-	N08541	-5	-5	-5	23	-20	-15	11	-10	-15	2	38
35-	35.8672-	108.0728-	2-	15-	0-	N08542	-5	7	-5	23	-20	-15	11	-10	-15	2	33
35-	35.8772-	108.0772-	2-	15-	0-	N08544	-5	-5	-5	22	-20	32	8	-10	-15	2	31
35-	35.8869-	108.0839-	2-	15-	0-	N08545	-5	-5	-5	16	-20	-15	5	-10	-15	1	23
35-	35.9053-	108.1003-	2-	15-	0-	N08547	-5	5	-5	23	-20	-15	8	-10	-15	2	25
35-	35.9556-	108.1017-	2-	15-	0-	N08549	-5	-5	-5	18	-20	-15	13	-10	-15	2	22
35-	35.9442-	108.0917-	2-	15-	0-	N08550	-5	6	-5	25	-20	-15	9	-10	-15	2	29
35-	35.9358-	108.0753-	2-	15-	0-	N08551	-5	-5	-5	19	-20	-15	7	-10	-15	2	32
35-	35.9031-	108.0206-	2-	15-	0-	N08554	-5	6	-5	19	-20	-15	9	-10	-15	2	29
35-	35.9028-	108.0283-	2-	15-	0-	N08555	-5	6	-5	26	-20	-15	-5	-10	-15	2	18
35-	35.9206-	108.0481-	2-	15-	0-	N08556	-5	5	-5	14	-20	-15	6	-10	-15	2	27
35-	35.9647-	108.0217-	2-	15-	0-	N08557	-5	-5	-5	16	-20	-15	5	-10	-15	1	18

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-	35.6239-	108.1067-	2-	15-	0-	N08482	49950	-0.05	554	10610	66	-59	7.5	28	5.4	4	1.3	19080	10.1	20170	32	0.4
35-	35.5286-	108.1150-	2-	15-	0-	N08483	64970	-0.05	473	8503	93	-61	18.7	49	13.2	6	3.1	31480	11.0	17530	41	0.5
35-	35.7289-	108.0200-	2-	15-	0-	N08484	62820	-0.03	628	3494	71	-61	14.6	39	10.2	5	2.2	20550	16.1	22720	30	0.5
35-	35.7094-	108.0172-	2-	15-	0-	N08485	59530	-0.03	666	4124	81	-66	6.3	34	3.8	4	1.4	17610	12.0	21980	26	0.4
35-	35.7186-	108.1094-	2-	15-	0-	N08488	62330	-0.04	565	8455	75	-64	8.7	39	6.2	5	1.5	24020	7.5	19260	35	0.4
35-	35.6386-	108.1122-	2-	15-	0-	N08490	31290	-0.03	472	9490	41	-49	3.5	14	2.1	3	0.4	8827	8.6	15650	19	0.3
35-	35.6642-	108.0722-	2-	15-	0-	N08491	58620	-0.04	658	5654	63	-65	5.7	30	3.5	5	1.2	15760	15.4	19800	33	0.5
35-	35.6897-	108.0144-	2-	15-	0-	N08492	65040	-0.04	607	4295	33	-63	2.9	11	2.9	5	0.6	7940	4.1	25630	12	0.2
35-	35.6497-	108.0228-	2-	15-	0-	N08493	57660	-0.05	693	9439	56	-61	5.9	24	3.7	5	1.1	15120	12.7	20760	28	0.4
35-	35.6772-	108.0647-	2-	15-	0-	N08495	53990	-0.04	665	4030	63	-63	5.3	21	3.7	4	1.2	12330	12.2	23420	26	0.4
35-	35.7008-	108.0650-	2-	15-	0-	N08496	57600	-0.05	621	6397	61	-64	6.3	28	4.0	5	1.3	16490	10.0	24410	32	0.4
35-	35.6744-	108.1061-	2-	15-	0-	N08498	36510	-0.03	623	9492	36	-50	1.8	12	-0.7	6	0.7	5060	22.5	16990	18	0.4
35-	35.6264-	108.2769-	2-	15-	0-	N08499	49910	-0.05	603	6729	54	-49	4.4	28	4.2	6	1.2	13060	18.6	18670	31	0.5
35-	35.7478-	108.2169-	2-	15-	0-	N08501	47280	-0.04	498	7259	74	-57	5.4	25	3.5	6	1.2	15150	23.7	17380	34	0.5
35-	35.7361-	108.1856-	2-	15-	0-	N08502	43630	-0.04	378	15130	51	-50	5.2	28	4.1	4	0.9	16350	6.8	15690	23	0.3
35-	35.7494-	108.1694-	2-	15-	0-	N08503	32940	-0.03	464	15970	17	-45	1.5	8	1.1	3	0.4	4739	3.6	14230	8	0.1
35-	35.7075-	108.1867-	2-	15-	0-	N08504	80410	-0.07	554	9981	68	-56	7.0	33	7.0	6	1.4	20260	6.5	22170	38	0.4
35-	35.7053-	108.2069-	2-	15-	0-	N08505	46700	-0.04	580	7788	53	-45	4.3	24	3.5	5	0.9	13010	10.4	17260	25	0.3
35-	35.6950-	108.1808-	2-	15-	0-	N08507	62020	-0.05	651	9275	83	-56	7.3	31	5.0	5	1.6	18390	9.0	21430	35	0.4
35-	35.6803-	108.1256-	2-	15-	0-	N08508	53510	-0.04	726	10150	64	-73	4.5	30	2.1	5	1.1	10440	17.7	24210	27	0.5
35-	35.7742-	108.2625-	2-	15-	0-	N08511	20580	-0.04	427	9343	47	-38	2.4	30	1.8	3	0.6	10030	15.3	8612	24	0.4
35-	35.8094-	108.1969-	2-	15-	0-	N08513	53640	-0.04	714	8075	64	-66	7.3	41	4.2	5	1.3	19250	11.0	22890	28	0.4
35-	35.7611-	108.1269-	2-	15-	0-	N08515	50040	-0.04	705	7865	59	-60	4.7	31	3.9	5	1.2	16060	19.3	20950	28	0.5
35-	35.7714-	108.2136-	2-	15-	0-	N08516	59680	-0.05	551	6576	69	-58	5.6	34	4.3	5	1.1	17000	12.7	20640	30	0.4
35-	35.7817-	108.2297-	2-	15-	0-	N08517	57960	-0.06	464	9250	94	-55	8.0	42	6.9	6	1.5	24290	26.1	19830	45	0.6
35-	35.7883-	108.2067-	2-	15-	0-	N08518	50150	-0.04	497	4973	44	-54	4.2	16	3.1	4	0.9	12030	5.4	20670	22	0.3
35-	35.7656-	108.1894-	2-	15-	0-	N08520	99290	-0.06	501	16940	86	-51	10.6	62	9.1	6	1.7	36680	5.3	19860	42	0.4
35-	35.8364-	108.1258-	2-	15-	0-	N08523	63150	-0.05	752	5766	76	-77	6.3	41	2.9	5	1.4	15920	15.4	26490	25	0.5
35-	35.8492-	108.1564-	2-	15-	0-	N08524	57520	-0.05	718	2697	66	-73	7.0	35	4.4	4	1.4	18760	13.6	23610	33	0.5
35-	35.8536-	108.1786-	2-	15-	0-	N08525	64000	-0.04	635	4937	50	-62	5.6	31	3.6	5	1.0	15030	11.3	21420	28	0.4
35-	35.8586-	108.2181-	2-	15-	0-	N08527	71890	-0.05	694	5910	63	-60	7.6	38	5.8	5	1.3	22170	10.1	23070	33	0.4
35-	35.8003-	108.0933-	2-	15-	0-	N08530	86800	-0.06	584	11650	90	-69	11.0	36	6.4	6	1.4	24870	6.3	21180	32	0.4
35-	35.7903-	108.0919-	2-	15-	0-	N08531	58900	-0.06	635	16420	76	-82	10.5	51	5.9	5	1.7	26950	14.9	22590	40	0.5
35-	35.8433-	108.0617-	2-	15-	0-	N08533	76010	-0.05	653	6300	64	-66	5.6	26	4.9	6	1.2	19940	6.5	20420	27	0.3
35-	35.8519-	108.0558-	2-	15-	0-	N08534	55230	-0.04	742	6161	61	-66	5.9	22	3.2	5	1.3	15950	9.8	20110	29	0.4
35-	35.8422-	108.0422-	2-	15-	0-	N08535	67560	-0.05	660	6310	70	-79	6.6	29	4.4	5	1.6	19600	7.8	25420	30	0.4
35-	35.8125-	108.0472-	2-	15-	0-	N08537	77310	-0.07	647	6288	88	-76	11.6	48	7.6	5	1.6	33490	11.0	19920	43	0.5
35-	35.7747-	108.1150-	2-	15-	0-	N08539	60870	-0.04	658	3579	61	-60	5.3	35	4.0	5	1.3	16740	11.7	21950	28	0.4
35-	35.7878-	108.0194-	2-	15-	0-	N08540	28290	-0.03	533	7494	48	-39	2.7	25	1.8	4	1.0	9015	17.3	13230	23	0.4
35-	35.8125-	108.1167-	2-	15-	0-	N08541	61120	-0.05	689	7714	63	-77	6.1	32	4.0	4	1.4	16490	10.1	24780	29	0.4
35-	35.8672-	108.0728-	2-	15-	0-	N08542	75530	-0.07	714	8915	96	-78	11.6	56	8.1	6	1.9	33640	16.0	22280	47	0.6
35-	35.8772-	108.0772-	2-	15-	0-	N08544	70170	-0.04	584	7089	54	-63	6.8	29	4.3	5	1.2	17570	7.4	19590	28	0.3
35-	35.8869-	108.0839-	2-	15-	0-	N08545	50290	-0.04	651	6555	55	-58	5.5	20	3.2	4	1.1	14820	9.8	20850	26	0.3
35-	35.9053-	108.1003-	2-	15-	0-	N08547	54370	-0.04	675	4486	56	-76	4.9	22	3.0	5	1.1	12430	11.8	21710	25	0.4
35-	35.9556-	108.1017-	2-	15-	0-	N08549	60010	-0.05	1047	7033	77	-80	8.9	38	3.5	5	1.7	21730	19.3	22050	38	0.6
35-	35.9442-	108.0917-	2-	15-	0-	N08550	62000	-0.04	710	7500	58	-68	5.6	25	3.7	4	1.2	16980	8.3	21570	26	0.3
35-	35.9358-	108.0753-	2-	15-	0-	N08551	58460	-0.04	714	7447	65	-69	6.1	30	4.2	4	1.4	19080	8.1	18980	29	0.4
35-	35.9031-	108.0206-	2-	15-	0-	N08554	59270	-0.05	627	5749	61	-72	5.2	30	3.4	5	1.3	18090	11.5	21960	27	0.5
35-	35.9028-	108.0283-	2-	15-	0-	N08555	46770	-0.05	592	4025	72	-66	5.6	32	3.9	4	1.4	17430	22.4	21090	33	0.5
35-	35.9206-	108.0481-	2-	15-	0-	N08556	53660	-0.03	657	6976	46	-68	4.5	23	2.2	4	1.0	12650	10.5	19840	20	0.3
35-	35.9647-	108.0217-	2-	15-	0-	N08557	42080	-0.03	671	5995	47	-58	3.5	17	2.3	4	0.6	10250	15.0	18820	21	0.4

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

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
35-35.6239-108.1067-2-15-						0-N08492	12040	182	6798	93	3	7.7	5.6	-142	-1	-1	12.6	2802	47	3.1	-95	0.237
35-35.5286-108.1150-2-15-						0-N08493	12230	221	6489	87	-1	14.7	7.1	-154	3	-1	16.8	4162	65	4.3	173	0.224
35-35.7289-108.0200-2-15-						0-N08494	7660	289	9235	86	-1	9.5	5.2	-188	-1	-1	12.5	3653	56	3.1	102	0.257
35-35.7094-108.0172-2-15-						0-N08495	10900	295	9459	85	-1	6.7	5.1	-207	-1	-1	10.2	3509	52	3.6	70	0.305
35-35.7186-108.1094-2-15-						0-N08488	14820	259	7654	88	1	9.3	6.0	-201	-1	-1	12.7	3848	66	3.8	90	0.217
35-35.6386-108.1122-2-15-						0-N08490	9589	136	5353	39	-1	3.2	3.0	-119	-1	1	6.6	2137	28	2.8	54	0.314
35-35.6642-108.0722-2-15-						0-N08491	5666	221	9335	70	-1	6.3	5.9	-153	-1	-1	12.3	3584	52	3.5	77	0.280
35-35.6897-108.0144-2-15-						0-N08492	8077	308	9360	33	-1	3.5	2.3	-198	-1		4.6	3812	66	1.4	-14	0.722
35-35.6497-108.0228-2-15-						0-N08493	7587	277	9394	59	-1	5.8	4.7	-176	-1	-1	9.4	3744	56	2.8	39	0.357
35-35.6772-108.0647-2-15-						0-N08495	-2358	185	10010	71	2	5.5	4.2	-147	-1	-1	9.6	2948	48	3.7	52	0.331
35-35.7008-108.0650-2-15-						0-N08496	8868	226	9244	67	-1	6.7	5.2	-155	-1	1	11.0	3178	53	4.0	95	0.289
35-35.6744-108.1061-2-15-						0-N08498	10280	191	6841	-11	-1	2.1	2.7	-149	-1		6.0	2693	32	3.3	35	0.888
35-35.6264-108.2769-2-15-						0-N08499	10200	206	6999	65	-1	5.4	4.7	-149	-1	-1	10.0	3688	52	3.3	49	0.413
35-35.7478-108.2169-2-15-						0-N08501	9209	196	6799	60	-1	6.0	5.7	-141	-1	-1	12.9	3395	49	4.5	-56	0.309
35-35.7361-108.1856-2-15-						0-N08502	14570	177	4640	56	-1	5.7	4.1	-132	-1	-1	7.7	2233	51	2.6	69	0.287
35-35.7494-108.1694-2-15-						0-N08503	14910	146	5646	19	-1	1.6	1.5	-135			2.7	1842	31	-0.5	-12	0.748
35-35.7075-108.1867-2-15-						0-N08504	16030	316	5200	98	-2	9.0	5.5	-203	-1	-1	11.2	4743	93	3.2	90	0.337
35-35.7053-108.2069-2-15-						0-N08505	9377	199	4410	53	-1	5.2	3.8	-159	-1	-1	8.7	3233	58	2.3	-40	0.386
35-35.6950-108.1808-2-15-						0-N08507	11120	242	8062	65	-1	8.4	7.3	-175	-1	-1	13.3	4274	65	3.0	76	0.295
35-35.6803-108.1256-2-15-						0-N08508	6655	223	12480	75	-1	4.6	4.8	-165	-1	-1	10.8	3532	40	3.7	-58	0.325
35-35.7742-108.2625-2-15-						0-N08511	8947	118	2970	32	-1	3.5	3.5	-100	-1	-1	7.3	1921	22	3.2	62	0.286
35-35.8094-108.1969-2-15-						0-N08513	12330	367	9524	63	-1	7.1	4.4	-210	-1	-1	8.5	3797	71	3.2	68	0.393
35-35.7611-108.1269-2-15-						0-N08515	7404	270	10720	75	-1	5.7	4.5	-173	-1	-1	10.5	3966	43	4.6	63	0.310
35-35.7714-108.2136-2-15-						0-N08516	10890	248	6343	66	-1	6.7	4.8	-160	-1	-1	10.7	3807	62	3.6	79	0.304
35-35.7817-108.2297-2-15-						0-N08517	12040	215	5496	92	-1	10.0	7.6	-149	-1	-1	17.0	3328	60	5.4	84	0.235
35-35.7883-108.2067-2-15-						0-N08518	7651	197	6926	59	-1	4.5	3.5	-164	-1	-1	7.6	2803	44	2.5	49	0.334
35-35.7656-108.1894-2-15-						0-N08520	22330	371	4069	90	-2	14.3	7.4	-205	-1	-1	15.8	5240	117	3.7	154	0.241
35-35.8364-108.1258-2-15-						0-N08523	9498	342	12450	62	-1	6.7	4.9	-191	-1	-1	11.3	3821	66	3.5	132	0.303
35-35.8492-108.1564-2-15-						0-N08524	6180	233	11460	83	-1	7.3	4.9	-167	-1	-1	12.5	2776	47	3.8	50	0.231
35-35.8536-108.1786-2-15-						0-N08525	10220	266	9348	66	-1	6.1	4.1	-185	-1	-1	9.4	3507	62	3.1	23	0.362
35-35.8586-108.2181-2-15-						0-N08527	10440	348	8561	70	-1	8.7	5.1	-195	-1	-1	11.7	4172	72	4.1	-46	0.289
35-35.8003-108.0933-2-15-						0-N08530	14830	339	6802	62	1	10.8	5.7	402	-1	-1	11.8	5602	101	2.7	103	0.324
35-35.7903-108.0919-2-15-						0-N08531	9710	443	12000	86	-1	9.3	5.8	-208	-1	-1	14.0	3085	61	3.6	76	0.239
35-35.8433-108.0617-2-15-						0-N08533	14620	285	9096	77	2	7.6	4.4	-204	-1	-1	10.3	4048	76	2.5	55	0.328
35-35.8519-108.0558-2-15-						0-N08534	6710	284	12810	74	-1	6.0	4.8	-178	-1	-1	10.4	3404	46	3.9	67	0.302
35-35.8422-108.0422-2-15-						0-N08535	11600	374	11330	60	-1	7.4	5.4	-205	-1	-1	11.8	4178	65	3.4	48	0.289
35-35.8125-108.0472-2-15-						0-N08537	10940	384	8569	97	-2	12.6	7.3	-205	-1	-1	16.5	3606	81	3.4	113	0.213
35-35.7747-108.1150-2-15-						0-N08539	8073	284	9258	57	-1	6.3	4.4	-190	-1	-1	9.7	3230	61	2.8	47	0.324
35-35.7878-108.0194-2-15-						0-N08540	7777	153	4830	43	-1	3.5	4.0	-126			9.2	2439	30	2.9		0.293
35-35.8125-108.1167-2-15-						0-N08541	8892	338	11060	65	-1	6.6	4.9	-193	-1	-1	11.6	4202	66	3.1	56	0.267
35-35.8672-108.0728-2-15-						0-N08542	15390	388	9562	111	-2	12.8	7.8	-202	-1	-1	19.0	4201	77	4.3	106	0.204
35-35.8772-108.0772-2-15-						0-N08544	11940	312	8933	50	-1	7.0	4.3	-201	-1	-1	9.7	3544	71	2.6	-39	0.324
35-35.8869-108.0839-2-15-						0-N08545	9711	230	9751	85	-1	5.6	4.6	-165	-1	-1	9.2	3113	48	2.9	46	0.301
35-35.9053-108.1003-2-15-						0-N08547	8040	246	13400	72	-1	4.6	4.2	-172	-1	-1	9.5	2866	42	3.5	46	0.312
35-35.9556-108.1017-2-15-						0-N08549	6279	305	13860	83	-1	8.1	6.0	-181	-1	-1	14.8	3107	50	4.2	87	0.244
35-35.9442-108.0917-2-15-						0-N08550	11580	336	10990	80	-1	6.3	4.2	-204	-1	-1	8.8	3311	65	2.9	67	0.373
35-35.9358-108.0753-2-15-						0-N08551	9758	326	12510	64	-1	6.8	5.9	-198	-1	-1	10.9	4061	53	3.8	63	0.270
35-35.9031-108.0206-2-15-						0-N08554	10910	346	10260	54	-1	6.4	4.8	-181	-1	-1	11.0	3349	53	3.2	41	0.265
35-35.9028-108.0283-2-15-						0-N08555	6402	261	10500	97	-1	6.4	5.5	-159	-1	-1	13.1	2854	36	3.6	45	0.235
35-35.9206-108.0481-2-15-						0-N08556	8012	290	11650	58	-1	4.5	3.4	-192	-1	-1	7.4	3116	44	2.5	29	0.401
35-35.9647-108.0217-2-15-						0-N08557	6186	238	11420	59	-1	3.9	4.3	-163	-1	-1	7.8	2775	32	3.0	64	0.356

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
35-	35.9861-	108.0372-	2-	15-		0-N08559-	09/18/77-	16-	26-		-	-	-	-	-	11-	1-	6-	4-	6-	-1-	-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	2.16
35-	35.8831-	108.2686-	2-	15-		0-N08561-	09/19/77-	18-	27-		-C-	-	-	-	-	8-	1-	6-	5-	6-	-1-	-	-2-	4-	3-	3-	2-	-3-	-	-	-	-	3.18
35-	35.8878-	108.2264-	2-	15-		0-N08562-	09/19/77-	18-	26-		-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-	-1-	3-	2-	2-	2-	-1-	-	-	-	-	3.10
35-	35.9358-	108.1567-	2-	15-		0-N08563-	09/19/77-	17-	28-		-C-	-	-	-	-	11-	1-	6-	4-	6-	-1-	-	-1-	4-	2-	3-	2-	-1-	-	-	-	-	3.06
35-	35.9089-	108.1408-	2-	15-		0-N08564-	09/19/77-	16-	30-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	-1-	4-	2-	2-	2-	-1-	-	-	-	-	2.67
35-	35.9042-	108.1481-	2-	15-		0-N08565-	09/19/77-	16-	29-		-C-	-	-	-	-	15-	1-	6-	4-	6-	-1-	-	-1-	4-	3-	2-	2-	-1-	-	-	-	-	3.22
35-	35.9703-	108.2342-	2-	15-		0-N08568-	09/18/77-	13-	24-		-	-	-	-	-	16-	1-	6-	4-	6-	-1-	-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	3.06
35-	35.9481-	108.2578-	2-	15-		0-N08570-	09/18/77-	13-	26-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	2.84
35-	35.9156-	108.2250-	2-	15-		0-N08571-	09/18/77-	13-	23-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	-2-	4-	2-	3-	1-	-3-	-	-	-	-	3.77
35-	35.9800-	108.1814-	2-	15-		0-N08574-	09/18/77-	12-	24-		-	-	-	-	-	12-	1-	6-	4-	1-	-1-	-	-2-	3-	2-	3-	1-	-1-	-	-	-	-	2.93
35-	35.9847-	108.1706-	2-	15-		0-N08575-	09/18/77-	11-	24-		-	-	-	-	-	13-	1-	1-	4-	1-	-1-	-	-2-	4-	2-	3-	1-	-1-	-	-	-	-	2.32
35-	35.4519-	108.1386-	2-	15-		0-N08579-	10/09/79-	12-	22-		-	-	-	-	-	1-	1-	4-	4-	4-	-1-	-	-	-1-	2-	4-	1-	-7-	-	-	-	-	2.66
35-	35.3917-	108.2394-	2-	15-		0-N08590-	10/08/79-	14-	22-		-	-	-	-	-	2-	1-	7-	4-	6-	-1-	-	-1-	2-	3-	1-	-1-	-	-	-	-	2.75
35-	35.4217-	108.2186-	2-	15-		0-N08591-	10/09/79-	17-	24-		-	-	-	-	-	13-	1-	6-	4-	6-	-1-	-	-4-	3-	1-	2-	-1-	-1-	-	-	-	-	2.26
35-	35.4403-	108.2222-	2-	15-		0-N08592-	10/09/79-	17-	27-		-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-1-	2-	3-	3-	-1-	-1-	-	-	-	-	1.64
35-	35.4264-	108.2117-	2-	15-		0-N08593-	10/09/79-	18-	26-		-	-	-	-	-	8-	1-	3-	4-	6-	-1-	-	-4-	3-	1-	2-	-1-	-1-	-	-	-	-	2.04
35-	35.3925-	108.1114-	2-	15-		0-N08594-	10/20/79-	9-	19-		-C-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-	-2-	4-	3-	1-	2-	-9-	-	-	-	-	2.50
35-	35.3842-	108.0225-	2-	15-		0-N08595-	10/20/79-	10-	16-		-C-	-	-	-	-	9-	3-	8-	4-	6-	-1-	-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	2.97
35-	35.4058-	108.0519-	2-	15-		0-N08596-	10/20/79-	10-	17-		-C-	-	-	-	-	8-	3-	7-	4-	4-	-1-	-	-2-	3-	3-	1-	2-	-9-	-	-	-	-	2.34
35-	35.4136-	108.0769-	2-	15-		0-N08597-	10/20/79-	10-	17-		-C-	-	-	-	-	5-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	2.64
35-	35.4247-	108.0169-	2-	15-		0-N08598-	10/20/79-	11-	17-		-	-	-	-	-	22-	1-	4-	4-	6-	-1-	-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	3.01
35-	35.4447-	108.0772-	2-	15-		0-N08599-	10/20/79-	12-	22-		-C-	-	-	-	-	5-	1-	6-	4-	6-	-1-	-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	3.41
35-	35.4378-	108.2578-	2-	15-		0-N08600-	10/22/79-	14-	18-		-	-	-	-	-	2-	1-	4-	4-	3-	-1-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	1.84
35-	35.4978-	108.2272-	2-	15-		0-N08601-	10/18/79-	17-	18-		-C-	-	-	-	-	39-	1-	1-	4-	6-	-1-	-	-	-1-	3-	3-	2-	-9-	-	-	-	-	3.12
35-	35.4931-	108.3997-	2-	15-		0-N08602-	10/23/79-	15-	20-		-C-	-	-	-	-	9-	1-	7-	4-	7-	-1-	-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	5.10
35-	35.4808-	108.3556-	2-	15-		0-N08603-	10/23/79-	16-	20-		-C-	-	-	-	-	11-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	3.28
35-	35.3867-	108.3581-	2-	15-		0-N08604-	10/24/79-	8-	16-		-C-	-	-	-	-	18-	4-	-	5-	6-	-1-	-	-2-	3-	3-	2-	1-	-8-	-	-	-	-	2.54
35-	35.4806-	108.0272-	2-	15-		0-N08605-	10/15/79-	16-	26-		-C-	-	-	-	-	23-	1-	6-	4-	6-	-1-	-	-	-3-	3-	2-	1-	-3-	-	-	-	-	3.30
35-	35.4931-	108.1803-	2-	15-		0-N08606-	10/16/79-	17-	24-		-C-	-	-	-	-	15-	1-	6-	4-	6-	-1-	-	-	-3-	3-	3-	1-	-3-	-	-	-	-	2.52
35-	35.4425-	108.1686-	2-	15-		0-N08607-	10/17/79-	12-	22-		-C-	-	-	-	-	3-	1-	6-	4-	6-	-1-	-	-	-1-	3-	4-	2-	-3-	-	-	-	-	2.20
35-	35.4603-	108.2700-	2-	15-		0-N08608-	10/16/79-	16-	22-		-C-	-	-	-	-	23-	1-	4-	4-	6-	-1-	-	-	-1-	2-	3-	1-	-7-	-	-	-	-	1.68
35-	35.4450-	108.2767-	2-	15-		0-N08609-	10/16/79-	16-	22-		-C-	-	-	-	-	23-	1-	4-	4-	4-	-1-	-	-	-1-	2-	3-	1-	-1-	-	-	-	-	2.68
35-	35.4364-	108.0103-	2-	15-		0-N08610-	10/17/79-	12-	20-		-C-	-	-	-	-	-	1-	4-	5-	6-	-1-	-	-	-4-	3-	3-	1-	-1-	-	-	-	-	5.95
35-	35.4436-	108.0350-	2-	15-		0-N08611-	10/17/79-	13-	-		-C-	-	-	-	-	15-	1-	4-	4-	4-	-1-	-	-	-4-	2-	3-	2-	-1-	-	-	-	-	3.94
04-	35.1042-	109.2919-	2-	15-		0-N08602-	08/30/78-	10-	29-		-C-	-	-	-	-	15-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.33
04-	35.0211-	109.2592-	2-	15-		0-N08605-	08/30/78-	13-	31-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.39
04-	35.2258-	109.3408-	2-	11-		0-N08608-	08/30/78-	14-	31-	19.0-	-	-	6.7-	610-	-	4-	1-	6-	4-	6-	-2-	2-	3-	-3-	2-	2-	1-	-7-	-	-	-	-	2.51
04-	35.2264-	109.3558-	2-	15-		0-N08609-	08/30/78-	14-	31-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.38
04-	35.2125-	109.3275-	2-	15-		0-N08610-	08/30/78-	15-	31-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	3.07
04-	35.2103-	109.2817-	2-	15-		0-N08612-	08/30/78-	16-	30-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.78
04-	35.2219-	109.2894-	2-	15-		0-N08614-	08/30/78-	17-	30-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	-1-	3-	2-	2-	1-	-9-	-	-	-	-	2.04
04-	35.3600-	109.0589-	2-	15-		0-N08616-	08/31/78-	10-	29-		-C-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.17
04-	35.3578-	109.0619-	2-	15-		0-N08617-	08/31/78-	10-	29-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	1.75
04-	35.3678-	109.0189-	2-	15-		0-N08619-	08/31/78-	11-	30-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	1.36
04-	35.3286-	109.0831-	2-	15-		0-N08621-	08/31/78-	12-	31-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	4.62
04-	35.3139-	109.1047-	2-	15-		0-N08622-	08/31/78-	13-	31-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.65
04-	35.3125-	109.0506-	2-	15-		0-N08624-	08/31/78-	15-	32-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	3-	1-	-1-	-	-	-	-	2.17
04-	35.3150-	109.0461-	2-	15-		0-N08625-	08/31/78-	16-	32-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	1.99
04-	35.3178-	109.0458-	2-	15-		0-N08626-	08/31/78-	16-	32-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.27
04-	35.2506-	109.0561-	2-	15-		0-N09627-	09/31/78-	16-	31-		-C-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.13
04-	35.2364-	109.0975-	2-	15-		0-N08629-	09/01/78-	10-	29-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.71

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

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
35-35.9861-108.0372-2-15-					0	-N08558	-5	5	-5	25	-20	-15	-5	-10	-15	1	21
35-35.8831-108.2686-2-15-					0	-N08561	-5	-5	5	19	-20	-15	12	-10	-15	2	25
35-35.8878-108.2264-2-15-					0	-N08562	-5	-5	-5	27	-20	-15	9	-10	-15	2	32
35-35.9358-108.1567-2-15-					0	-N08563	-5	-5	-5	22	-20	-15	9	-10	-15	2	33
35-35.9089-108.1408-2-15-					0	-N08564	-5	-5	-5	16	-20	-15	6	-10	-15	1	23
35-35.9042-108.1481-2-15-					0	-N08565	-5	-5	-5	14	-20	-15	7	-10	-15	2	27
35-35.9703-108.2342-2-15-					0	-N08568	-5	5	-5	21	-20	-15	12	-10	-15	2	38
35-35.9481-108.2578-2-15-					0	-N08570	-5	-5	-5	14	-20	-15	-5	-10	-15	2	26
35-35.9156-108.2250-2-15-					0	-N08571	-5	-5	-5	22	-20	-15	-5	-10	-15	1	22
35-35.9800-108.1914-2-15-					0	-N08574	-5	-5	-5	24	-20	-15	9	-10	-15	2	23
35-35.9847-108.1706-2-15-					0	-N08576	-5	-5	-5	18	-20	-15	-5	-10	-15	2	23
35-35.4519-108.1386-2-15-					0	-N08579	-5	-5	-5	17	-20	-15	11	-10	16	1	30
35-35.3917-108.2394-2-15-					0	-N08580	-5	-5	-5	22	-20	17	17	-10	17	2	39
35-35.4217-108.2186-2-15-					0	-N08581	-5	7	-5	16	-20	17	9	-10	-15	1	21
35-35.4403-108.2222-2-15-					0	-N08582	-5	-5	-5	29	-20	-15	8	-10	-15	1	20
35-35.4264-108.2117-2-15-					0	-N08583	-5	-5	-5	40	-20	-15	13	-10	-15	1	33
35-35.3925-108.1114-2-15-					0	-N08584	-5	-5	-5	62	-20	-15	50	-10	-15	2	33
35-35.3842-108.0225-2-15-					0	-N08585	-5	5	-5	17	-20	-15	10	-10	-15	2	30
35-35.4058-108.0519-2-15-					0	-N08586	-5	-5	-5	15	-20	-15	14	-10	-15	1	38
35-35.4136-108.0769-2-15-					0	-N08587	-5	-5	-5	13	-20	-15	6	-10	-15	0	23
35-35.4247-109.0169-2-15-					0	-N08588	-5	7	-5	15	-20	-15	8	-10	-15	2	30
35-35.4447-108.0772-2-15-					0	-N08589	-5	5	-5	14	-20	-15	13	-10	-15	1	37
35-35.4378-108.2578-2-15-					0	-N08590	-5	-5	-5	18	-20	-15	13	-10	-15	1	22
35-35.4978-108.2272-2-15-					0	-N08591	-5	-5	-5	16	-20	-15	8	-10	-15	1	30
35-35.4931-108.3997-2-15-					0	-N08592	-5	9	-5	12	-20	20	5	-10	-15	0	27
35-35.4808-108.3556-2-15-					0	-N08593	-5	6	-5	13	-20	-15	15	-10	-15	0	34
35-35.3867-108.3581-2-15-					0	-N08594	-5	-5	-5	31	-20	22	14	-10	-15	0	48
35-35.4806-108.0272-2-15-					0	-N08595	-5	-5	-5	16	-20	-15	11	-10	17	2	29
35-35.4931-108.1803-2-15-					0	-N08596	-5	5	-5	27	-20	-15	5	-10	-15	1	30
35-35.4425-108.1686-2-15-					0	-N08597	-5	-5	-5	15	-20	-15	11	-10	-15	1	26
35-35.4603-108.2700-2-15-					0	-N08598	-5	-5	-5	-10	-20	-15	6	-10	-15	1	25
35-35.4450-108.2767-2-15-					0	-N08599	-5	-5	-5	-10	-20	-15	9	-10	17	1	26
35-35.4364-108.0103-2-15-					0	-N08600	-5	-5	-5	13	-20	-15	12	-10	-15	0	24
35-35.4436-108.0350-2-15-					0	-N08601	-5	-5	-5	26	-20	18	12	-10	-15	0	20
04-35.1042-109.2919-2-15-					0	-N08602	-5	-5	-5	22	-20	-15	10	-10	-15	2	44
04-35.0211-109.2592-2-15-					0	-N08605	-5	-5	-5	19	-20	15	-5	-10	-15	2	35
04-35.2258-109.3408-2-11-					0	-N08608	-5	-5	-5	14	-20	-15	8	-10	-15	1	29
04-35.2264-109.3558-2-15-					0	-N08609	-5	-5	-5	23	-20	-15	10	-10	-15	2	49
04-35.2125-109.3275-2-15-					0	-N08610	-5	6	-5	17	-20	-15	15	-10	-15	2	30
04-35.2103-109.2817-2-15-					0	-N08612	-5	7	-5	15	-20	21	8	-10	-15	2	43
04-35.2219-109.2894-2-15-					0	-N08614	-5	5	-5	20	-20	-15	10	-10	-15	2	41
04-35.3600-109.0589-2-15-					0	-N08616	-5	-5	-5	19	-20	-15	-5	-10	-15	2	18
04-35.3578-109.0619-2-15-					0	-N08617	-5	7	-5	22	-20	-15	6	-10	-15	1	24
04-35.3678-109.0189-2-15-					0	-N08619	-5	5	-5	14	-20	-15	8	-10	-15	1	16
04-35.3286-109.0831-2-15-					0	-N08621	-5	9	-5	16	-20	-15	5	-10	-15	2	25
04-35.3139-109.1047-2-15-					0	-N08622	-5	-5	-5	13	-20	-15	-5	-10	-15	2	16
04-35.3125-109.0506-2-15-					0	-N08624	-5	-5	-5	27	-20	-15	8	-10	-15	2	27
04-35.3150-109.0461-2-15-					0	-N08625	-5	-5	-5	23	-20	-15	-5	-10	-15	1	26
04-35.3178-109.0458-2-15-					0	-N08626	-5	-5	-5	20	-20	-15	-5	-10	-15	1	20
04-35.2506-109.0561-2-15-					0	-N08627	-5	-5	-5	28	-20	16	-5	-10	-15	2	29
04-35.2364-109.0975-2-15-					0	-N08633	-5	6	-5	25	-20	-15	12	-10	-15	2	22

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-	35.9861-	108.0372-	2-	15-		0-N08559	41840	-0.03	622	3365	42	142	3.3	13	1.7	3	0.9	8771	7.4	18270	16	0.3
35-	35.8831-	108.2686-	2-	15-		0-N08561	63040	-0.06	729	4043	82	-71	8.1	46	6.0	5	1.6	23890	14.5	21790	43	0.4
35-	35.8878-	108.2264-	2-	15-		0-N08562	70440	-0.04	589	7642	66	-57	6.9	29	4.5	5	1.2	20220	7.1	21600	26	0.3
35-	35.9358-	108.1567-	2-	15-		0-N08563	65480	-0.05	730	6408	60	-64	6.6	28	4.6	4	1.3	21400	7.5	21220	31	0.4
35-	35.9089-	108.1408-	2-	15-		0-N08564	56900	-0.04	733	6075	56	-70	4.8	25	3.2	4	1.1	11780	9.4	22090	20	0.3
35-	35.9042-	108.1481-	2-	15-		0-N08565	66110	-0.06	699	9929	78	-81	10.9	41	6.5	5	1.6	27700	12.6	22760	44	0.5
35-	35.9703-	108.2342-	2-	15-		0-N08568	61500	-0.04	758	10240	51	-72	5.2	24	2.7	4	1.1	15770	8.0	23720	26	0.3
35-	35.9481-	108.2578-	2-	15-		0-N08570	53890	-0.04	779	8690	54	-71	5.0	31	2.9	4	1.3	13960	10.7	22870	26	0.3
35-	35.9156-	108.2250-	2-	15-		0-N08571	48690	-0.04	700	5846	67	-68	3.9	27	2.9	5	1.2	12910	24.5	19860	26	0.6
35-	35.9800-	108.1814-	2-	15-		0-N08574	52600	-0.05	655	7796	67	-74	8.3	32	4.3	5	1.5	21560	15.1	23340	35	0.5
35-	35.9847-	108.1706-	2-	15-		0-N08576	49770	-0.03	621	5308	40	-64	3.8	15	1.3	3	1.0	9205	7.4	18650	19	0.3
35-	35.4519-	108.1386-	2-	15-		0-N08579	38090	-0.04	637	19850	36	-49	3.4	24	1.7	3	0.7	14020	12.1	19490	20	0.3
35-	35.3917-	108.2394-	2-	15-		0-N08580	62360	-0.06	737	18230	69	-54	7.6	45	4.6	5	1.3	23530	13.4	12280	35	0.4
35-	35.4217-	108.2186-	2-	15-		0-N08581	27050	-0.04	699	10930	24	-46	3.4	41	1.3	2	0.8	14420	31.5	17080	11	0.4
35-	35.4403-	108.2222-	2-	15-		0-N08582	29000	-0.03	522	11280	25	-44	2.8	22	-0.7	2	0.3	9253	12.9	17560	12	0.3
35-	35.4264-	108.2117-	2-	15-		0-N08583	38580	-0.04	565	28290	35	-54	4.8	34	2.0	2	0.8	15240	11.1	19160	17	0.3
35-	35.3925-	108.1114-	2-	15-		0-N08584	58390	-0.06	596	13790	71	-63	7.9	42	4.1	5	1.1	23560	10.3	13300	33	0.3
35-	35.3842-	108.0225-	2-	15-		0-N08585	52510	-0.06	485	18500	73	-54	5.6	36	4.4	5	1.0	21320	11.6	21710	32	0.4
35-	35.4058-	108.0519-	2-	15-		0-N08586	44620	-0.05	624	18810	60	-58	6.3	30	2.8	3	1.0	17840	13.1	18000	22	0.3
35-	35.4136-	108.0769-	2-	15-		0-N08587	34190	-0.04	474	8139	47	-51	4.9	55	1.9	3	1.0	19730	31.3	14280	19	0.5
35-	35.4247-	108.0169-	2-	15-		0-N08588	45380	-0.05	587	13520	48	-54	5.6	31	2.6	4	0.9	18330	14.6	17740	21	0.3
35-	35.4447-	108.0772-	2-	15-		0-N08589	48680	-0.05	590	21040	50	-55	4.6	41	2.2	3	0.9	18020	10.5	20930	21	0.4
35-	35.4378-	108.2578-	2-	15-		0-N08590	27100	-0.04	584	9511	20	-47	3.3	35	2.3	2	0.4	12150	23.0	16250	11	0.3
35-	35.4978-	108.2272-	2-	15-		0-N08591	37220	-0.04	433	9501	62	-39	4.4	40	3.5	4	0.9	16710	24.2	17130	27	0.5
35-	35.4931-	108.3997-	2-	15-		0-N08592	34410	-0.06	2864	14920	81	-56	7.9	93	2.6	6	2.1	26980	70.6	10170	37	0.8
35-	35.4808-	108.3556-	2-	15-		0-N08593	28880	-0.05	872	21350	34	-52	4.1	63	2.2	3	1.1	19870	35.8	16100	17	0.5
35-	35.3867-	108.3581-	2-	15-		0-N08594	60870	-0.07	546	16680	98	-63	12.2	67	4.5	5	1.4	31520	14.4	14450	36	0.4
35-	35.4806-	108.0272-	2-	15-		0-N08595	44510	-0.04	474	3534	64	-41	4.6	25	2.6	5	0.9	13070	12.5	15570	32	0.4
35-	35.4931-	108.1803-	2-	15-		0-N08596	35780	-0.04	433	4553	49	-47	4.6	24	2.6	4	0.8	14470	13.3	18510	23	0.3
35-	35.4425-	108.1686-	2-	15-		0-N08597	32490	-0.04	595	27450	33	-52	3.4	25	2.2	2	0.8	11920	11.7	20140	14	0.2
35-	35.4603-	108.2700-	2-	15-		0-N08598	31160	-0.04	531	16530	28	-43	2.7	17	2.2	2	0.7	10250	8.2	19830	11	0.2
35-	35.4450-	108.2767-	2-	15-		0-N08599	35550	-0.04	626	16670	38	-47	4.2	36	2.5	3	0.8	16420	22.0	20070	19	0.4
35-	35.4364-	108.0103-	2-	15-		0-N08600	32720	-0.05	1363	17980	55	-56	3.7	68	1.5	5	1.8	22810	64.0	16830	24	0.8
35-	35.4436-	108.0350-	2-	15-		0-N08601	31590	-0.05	1127	24390	36	-50	4.9	64	1.8	3	1.3	29250	39.4	15750	18	0.5
04-	35.1042-	109.2919-	2-	15-		0-N08602	58460	-0.05	640	32690	64	172	7.8	32	4.9	5	1.4	24500	11.1	21570	27	0.4
04-	35.0211-	109.2592-	2-	15-		0-N08605	57390	-0.05	593	21750	67	-70	6.3	35	3.9	5	1.2	20590	12.0	18680	22	0.4
04-	35.2258-	109.3408-	2-	11-		0-N08608	30720	-0.05	874	26240	51	199	5.5	41	13.1	3	0.9	23660	24.6	17150	28	0.4
04-	35.2264-	109.3558-	2-	15-		0-N08609	45710	-0.04	882	31340	41	-56	4.4	29	17.5	4	0.6	15030	11.2	17380	22	0.3
04-	35.2125-	109.3275-	2-	15-		0-N08610	54400	-0.05	692	37960	56	-62	7.3	44	4.8	5	1.5	19400	11.0	18750	25	0.4
04-	35.2103-	109.2817-	2-	15-		0-N08612	42850	-0.04	733	20930	57	-63	5.1	42	8.7	4	1.3	19260	21.9	18480	29	0.5
04-	35.2219-	109.2894-	2-	15-		0-N08614	51320	-0.04	857	30280	48	-62	5.0	32	6.1	4	0.8	16070	8.6	20410	25	0.3
04-	35.3600-	109.0589-	2-	15-		0-N08616	37890	-0.04	474	9918	40	-49	3.0	19	1.8	3	0.8	10180	8.7	17020	16	0.3
04-	35.3578-	109.0619-	2-	15-		0-N08617	38580	-0.04	453	20920	40	-55	5.2	32	2.8	3	1.1	14230	8.8	17870	22	0.3
04-	35.3678-	109.0189-	2-	15-		0-N08619	37730	-0.03	560	15070	29	-55	3.0	21	1.4	2	0.9	8639	5.7	19720	16	0.2
04-	35.3286-	109.0831-	2-	15-		0-N08621	55730	-0.05	676	5560	66	-42	6.0	53	3.1	6	1.7	31580	36.4	10410	30	0.6
04-	35.3139-	109.1047-	2-	15-		0-N08622	35040	-0.05	1065	4996	74	374	5.0	36	1.7	5	1.5	22280	27.9	9705	29	0.6
04-	35.3125-	109.0506-	2-	15-		0-N08624	47860	-0.06	617	39450	65	-74	9.7	56	3.9	4	1.5	24550	12.0	11120	32	0.3
04-	35.3150-	109.0461-	2-	15-		0-N08625	36120	-0.04	513	23050	39	-58	4.0	37	2.0	3	0.9	13340	15.6	14890	16	0.3
04-	35.3178-	109.0458-	2-	15-		0-N08626	38110	-0.04	473	23930	42	-56	3.9	37	2.2	3	1.0	15080	20.0	14050	20	0.4
04-	35.2506-	109.0561-	2-	15-		0-N08627	46440	-0.05	625	38380	56	-72	6.8	42	2.5	4	1.1	17460	9.5	14490	24	0.3
04-	35.2364-	109.0975-	2-	15-		0-N08633	51870	-0.06	774	33880	82	-71	10.9	52	3.7	5	1.7	36190	23.8	12050	43	0.6

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB. SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)													
							Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
35-35.9861-108.0372-2-15-						0-N08558	-2482	197	12640	59	-1	3.2	3.0	-152	-1		6.3	2386	27	2.3	-25	0.343
35-35.8831-108.2686-2-15-						0-N08561	9027	282	10330	84	-1	9.0	6.0	-175	-1	-1	15.8	3302	54	4.5	58	0.201
35-35.8878-108.2264-2-15-						0-N08562	14700	331	6169	71	-1	7.7	4.6	-195	-1	-1	9.6	3299	73	3.2	-55	0.323
35-35.9358-108.1567-2-15-						0-N08563	12510	274	11550	97	-1	7.4	5.2	-187	-1	-1	11.0	3471	57	2.8	-60	0.278
35-35.9089-108.1408-2-15-						0-N08564	7215	206	11640	53	1	4.9	4.1	-160	-1	-1	8.5	2848	44	2.7	-41	0.314
35-35.9042-108.1481-2-15-						0-N08565	12140	384	10630	93	2	10.2	6.5	-204	-1	-1	14.7	3388	66	3.7	103	0.219
35-35.9703-108.2342-2-15-						0-N08568	8523	350	12530	60	-1	5.4	3.6	-212	-1	-1	7.7	3364	48	2.5	42	0.397
35-35.9481-108.2578-2-15-						0-N08570	7541	324	14980	76	-1	5.2	5.1	-192	-1	-1	10.1	3352	40	3.4	63	0.281
35-35.9156-108.2250-2-15-						0-N08571	7491	262	10900	48	1	5.0	5.5	-163	-1	-1	12.2	3821	45	4.0	53	0.309
35-35.9800-108.1814-2-15-						0-N08574	9149	280	12070	70	-1	7.4	5.4	-170	-1	-1	12.8	3026	47	3.3	66	0.229
35-35.9847-108.1706-2-15-						0-N08576	5987	217	12460	60	-1	3.6	2.5	-172	-1		6.2	2220	35	2.2	24	0.374
35-35.4519-108.1386-2-15-						0-N08579	3806	344	5735	71	-1	3.9	3.5	-124	-1		5.9	2227	39	2.8	-39	0.451
35-35.3917-108.2394-2-15-						0-N08580	10300	394	3397	-25	-1	8.0	5.8	-157	1	-1	12.4	2769	52	3.5	88	0.222
35-35.4217-108.2186-2-15-						0-N08581	3041	367	4499	57	-1	3.4	1.6	-150	-1		5.2	1981	35	3.1	44	0.435
35-35.4403-108.2222-2-15-						0-N08582	2562	244	5362	61	-1	2.8	1.9	-122			4.1	1769	26	2.3	54	0.400
35-35.4264-108.2117-2-15-						0-N08583	5775	370	6211	74	-1	4.6	2.9	-129	-1		5.2	2055	41	2.3	49	0.392
35-35.3925-108.1114-2-15-						0-N08584	8960	499	5655	67	3	8.0	5.4	-173	-1	-1	11.1	3228	48	3.9	170	0.225
35-35.3842-108.0225-2-15-						0-N08585	5730	243	5602	102	-2	7.8	5.4	-154	-1	-1	12.2	3073	65	3.9	-83	0.243
35-35.4058-108.0519-2-15-						0-N08586	7172	355	7509	62	-1	6.2	4.0	-161	-1		7.4	2520	47	3.1	68	0.316
35-35.4136-108.0769-2-15-						0-N08587	3863	429	6204	63	-1	4.9	3.4	-131	-1		7.1	3128	52	3.6	46	0.372
35-35.4247-108.0169-2-15-						0-N08588	4594	297	5354	64	-1	5.9	4.3	-131	-1		8.5	2260	51	3.2	62	0.354
35-35.4447-108.0772-2-15-						0-N08589	5095	403	6051	74	-1	5.1	3.6	-171	-1		7.3	2699	62	2.5	127	0.467
35-35.4378-108.2578-2-15-						0-N08590	3005	297	5139	59	-1	2.8	1.2	-136	-1		4.0	1628	31	2.5	-41	0.460
35-35.4978-108.2272-2-15-						0-N08591	5793	193	3830	76	-1	5.3	4.1	-98	-1		10.8	2767	37	3.3	31	0.289
35-35.4931-108.3997-2-15-						0-N08592	4329	658	3364	47	-1	6.6	5.6	-178	-1		12.9	4124	65	7.1		0.395
35-35.4808-108.3556-2-15-						0-N08593	3288	463	5358	56	-1	3.5	2.3	-167	-1		6.4	2674	55	3.6		0.512
35-35.3867-108.3581-2-15-						0-N08594	7392	943	4610	93	-2	10.4	6.3	-247	-1	-1	11.2	4959	72	6.1	-39	0.227
35-35.4806-108.0272-2-15-						0-N08595	3987	213	4591	60	-1	5.3	5.1	-104	-1		8.9	2344	35	4.0	68	0.371
35-35.4931-108.1803-2-15-						0-N08596	3594	196	4008	56	-1	4.7	4.2	-111	-1		8.1	2226	32	3.5	-42	0.311
35-35.4425-108.1686-2-15-						0-N08597	4655	365	5945	57	-1	3.3	2.7	-153	-1		4.2	1639	28	2.4		0.524
35-35.4603-108.2700-2-15-						0-N08598	3056	291	4448	56	-1	2.8	1.8	-133			3.6	1650	33	1.6	-15	0.467
35-35.4450-108.2767-2-15-						0-N08599	4358	375	4979	66	-1	3.9	2.4	-122	-1		5.4	2175	52	2.6	32	0.496
35-35.4364-108.0103-2-15-						0-N08600	3492	622	4026	55	-1	4.6	4.1	-172	-1	1	9.7	3420	59	6.0	70	0.613
35-35.4436-108.0350-2-15-						0-N08601	3656	599	4012	64	-1	4.3	2.3	-187	-1		7.2	4131	74	3.8	73	0.547
04-35.1042-109.2919-2-15-						0-N08602	25450	465	7055	62	-1	8.0	5.3	-229	-1	-1	9.8	3600	67	3.2	84	0.238
04-35.0211-109.2592-2-15-						0-N08605	13580	407	8713	52	-1	6.3	4.8	-195	-1	-1	8.4	3647	68	3.1	-36	0.285
04-35.2258-109.3408-2-11-						0-N08608	7446	296	6508	63		4.3	3.9	-155	-1	-1	9.2	3379	56	3.8	-61	0.273
04-35.2264-109.3558-2-15-						0-N08609	11140	327	6576	58		4.5	3.3	-185	-1	-1	7.0	3099	51	2.5	35	0.340
04-35.2125-109.3275-2-15-						0-N08610	14120	378	6956	70	-1	7.3	5.9	-199	-1	-1	11.1	4250	61	4.1	85	0.277
04-35.2103-109.2817-2-15-						0-N08612	10140	348	8662	57	-1	4.6	4.0	-196	1	1	9.1	4280	58	3.8	57	0.305
04-35.2219-109.2894-2-15-						0-N08614	13110	355	8201	63	-1	5.3	4.7	-196	-1	-1	8.5	3163	43	3.1	77	0.240
04-35.3600-109.0589-2-15-						0-N08616	6395	161	5234	50	-1	3.5	2.7	-127	-1		6.2	2338	26	2.1	51	0.350
04-35.3578-109.0619-2-15-						0-N08617	9229	274	6158	61	-1	5.0	3.3	-144	-1	-1	6.4	1993	31	2.1	29	0.273
04-35.3678-109.0189-2-15-						0-N08619	6520	212	7990	53	-1	3.0	2.5	-160	-1		4.4	1669	23	1.9	35	0.309
04-35.3286-109.0831-2-15-						0-N08621	8940	263	4322	-20	-1	8.4	5.4	-152	1	-1	14.8	5850	85	4.7	-35	0.312
04-35.3139-109.1047-2-15-						0-N08622	6628	226	3241	-16	-1	5.0	5.4	-130	-1	-1	9.6	4462	71	5.3	-25	0.380
04-35.3125-109.0506-2-15-						0-N08624	16990	513	9199	64	-1	8.5	5.3	-202	-1	-1	8.9	2794	60	3.5	47	0.244
04-35.3150-109.0461-2-15-						0-N08625	10540	309	8311	41	-1	4.1	3.1	293	-1		5.5	2795	30	2.7	26	0.362
04-35.3178-109.0458-2-15-						0-N08626	10950	369	8224	54	-1	4.4	3.9	-183	-1	-1	6.4	3066	41	2.7	42	0.355
04-35.2506-109.0561-2-15-						0-N08627	18330	528	7362	48	-1	6.0	3.8	447	-1	-1	6.4	3185	52	2.8	-72	0.333
04-35.2364-109.0975-2-15-						0-N08633	14310	548	7355	53	-1	7.8	6.5	524	-1	1	13.6	4351	82	5.9	26	0.199

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																													U CONCENTRATION
							TIME SAMPLED																													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.2275-	109.0747-	2-	15-	0-	N08634-	09/01/78-	10-	30-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	1.99
04-	35.2239-	109.0344-	2-	15-	0-	N08635-	09/01/78-	11-	31-		-C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.03
04-	35.2228-	109.0164-	2-	15-	0-	N08636-	09/01/78-	12-	31-		-C-	-		-	-	4-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	1.93
04-	35.2389-	109.0261-	2-	11-	0-	N08637-	09/01/78-	12-	31-	19.0-	-C-	-	7.0-	-	750-	6-	1-	6-	4-	6-	2-	2-	4-	-7-	2-	3-	1-	-9-	-	-	-	-	2.21
04-	35.2289-	109.0064-	2-	15-	0-	N08638-	09/01/78-	13-	31-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	1.60
04-	35.1981-	109.2183-	2-	15-	0-	N08641-	09/02/78-	10-	29-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	1.97
04-	35.0394-	109.2094-	2-	15-	0-	N08642-	08/30/78-	14-	29-		-C-	-		-	-	10-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	2-	-9-	-	-	-	-	2.51
04-	35.3975-	109.0236-	2-	15-	0-	N08643-	09/01/78-	11-	29-		-C-	-		-	-	10-	1-	6-	4-	6-	-1-	-2-	3-	4-	3-	2-	-9-	-	-	-	-	2.76
04-	35.4042-	109.0339-	2-	15-	0-	N08644-	09/01/78-	12-	30-		-C-	-		-	-	10-	1-	6-	4-	6-	-1-	-2-	3-	4-	3-	2-	-9-	-	-	-	-	3.14
04-	35.4211-	109.0056-	2-	15-	0-	N08645-	09/01/78-	13-	31-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	4-	4-	2-	-9-	-	-	-	-	3.01
04-	35.4622-	109.0308-	2-	15-	0-	N08646-	09/01/78-	15-	31-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	2.64
04-	35.4675-	109.0050-	2-	15-	0-	N08647-	09/01/78-	15-	31-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	3.47
04-	35.4928-	109.0242-	2-	15-	0-	N08648-	09/01/78-	16-	31-		-C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	3-	4-	2-	-9-	-	-	-	-	6.67
04-	35.5014-	109.0300-	2-	15-	0-	N08649-	09/01/78-	16-	31-		-C-	-		-	-	14-	1-	6-	4-	6-	-1-	-2-	3-	3-	4-	2-	-9-	-	-	-	-	3.22
04-	35.4931-	109.0308-	2-	11-	0-	N08650-	09/01/78-	17-	-		-C-	-	7.7-	-	640-	11-	1-	6-	5-	6-	2-	3-	1-	-3-	4-	4-	3-	-9-	-	-	-	-	3.26
04-	35.5581-	109.0247-	2-	15-	0-	N08653-	09/02/78-	14-	31-		-C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	3-	-9-	-	-	-	-	5.08
04-	35.5528-	109.0147-	2-	15-	0-	N08655-	09/02/78-	14-	30-		-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	3-	-1-	-	-	-	-	3.45
04-	35.5964-	109.0519-	2-	15-	0-	N08657-	09/02/78-	17-	30-		-C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	3-	-9-	-	-	-	-	4.19
04-	35.6178-	109.0797-	2-	15-	0-	N08659-	09/02/78-	17-	30-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	3-	-9-	-	-	-	-	3.01
04-	35.5853-	109.0828-	2-	15-	0-	N08661-	09/07/78-	15-	31-		-C-	-		-	-	7-	1-	4-	4-	4-	-1-	-2-	1-	2-	3-	2-	-9-	-	-	-	-	4.56
04-	35.5278-	109.0850-	2-	15-	0-	N08666-	09/07/78-	16-	30-		-C-	-		-	-	11-	1-	4-	5-	4-	-1-	-2-	3-	3-	2-	-9-	-9-	-	-	-	-	2.69
04-	35.4558-	109.1128-	2-	15-	0-	N08668-	09/07/78-	17-	30-		-	-		-	-	6-	1-	4-	4-	4-	-1-	-2-	1-	3-	3-	2-	-3-	-	-	-	-	3.24
04-	35.4644-	109.1119-	2-	15-	0-	N08669-	09/07/78-	18-	30-		-C-	-		-	-	7-	1-	4-	4-	4-	-1-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	8.82
04-	35.4842-	109.0989-	2-	15-	0-	N08670-	09/07/78-	19-	29-		-C-	-		-	-	14-	1-	4-	4-	4-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	4.04
04-	35.4856-	109.1008-	2-	15-	0-	N08671-	09/07/78-	19-	29-		-C-	-		-	-	6-	1-	4-	4-	4-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	3.81
04-	35.4747-	109.1192-	2-	15-	0-	N08672-	09/07/78-	19-	29-		-C-	-		-	-	8-	1-	4-	4-	4-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	3.27
04-	35.0261-	109.0597-	2-	15-	0-	N08673-	09/08/78-	13-	30-		-C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	1-	3-	3-	2-	-1-	-	-	-	-	2.02
04-	35.0483-	109.0681-	2-	15-	0-	N08674-	09/08/78-	13-	30-		-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	1-	3-	3-	2-	-1-	-	-	-	-	2.17
04-	35.0111-	109.0836-	2-	15-	0-	N08675-	09/08/78-	14-	31-		-	-		-	-	7-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	3.02
04-	35.0572-	109.1183-	2-	15-	0-	N08677-	09/08/78-	16-	31-		-C-	-		-	-	8-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	1.61
04-	35.0322-	109.1417-	2-	15-	0-	N08679-	09/08/78-	18-	30-		-C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	2.23
04-	35.1869-	109.1897-	2-	15-	0-	N08682-	09/02/78-	11-	29-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.36
04-	35.1908-	109.1861-	2-	15-	0-	N08683-	09/02/78-	11-	30-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.41
04-	35.1683-	109.1947-	2-	15-	0-	N08686-	09/02/78-	14-	31-		-C-	-		-	-	14-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.82
04-	35.1681-	109.1678-	2-	15-	0-	N08687-	09/02/78-	14-	31-		-C-	-		-	-	17-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.92
04-	35.1761-	109.1600-	2-	15-	0-	N08688-	09/02/78-	15-	31-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.69
04-	35.1658-	109.1550-	2-	15-	0-	N08689-	09/02/78-	16-	31-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.35
04-	35.3056-	109.1256-	2-	15-	0-	N08690-	09/03/78-	10-	29-		-	-		-	-	15-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-1-	-	-	-	-	5.67
04-	35.2653-	109.1833-	2-	15-	0-	N08692-	09/03/78-	10-	29-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	2-	-1-	-	-	-	-	2.93
04-	35.2853-	109.1667-	2-	15-	0-	N08694-	09/03/78-	11-	30-		-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	4.01
04-	35.3525-	109.1361-	2-	15-	0-	N08695-	09/03/78-	13-	30-		-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-1-	-	-	-	-	3.26
04-	35.3403-	109.1789-	2-	15-	0-	N08696-	09/03/78-	14-	31-		-C-	-		-	-	6-	1-	6-	4-	6-	-1-	-2-	1-	2-	3-	1-	-9-	-	-	-	-	3.47
04-	35.3667-	109.1917-	2-	15-	0-	N08698-	09/03/78-	14-	31-		-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	1-	2-	3-	1-	-1-	-	-	-	-	4.34
04-	35.3753-	109.1883-	2-	15-	0-	N08699-	09/03/78-	15-	31-		-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	1-	2-	3-	1-	-1-	-	-	-	-	4.19
04-	35.3781-	109.2061-	2-	15-	0-	N08700-	09/03/78-	15-	31-		-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	1-	2-	3-	1-	-1-	-	-	-	-	4.01
04-	35.3411-	109.1844-	2-	15-	0-	N08701-	09/03/78-	16-	31-		-C-	-		-	-	6-	1-	6-	4-	6-	-1-	-2-	1-	2-	3-	1-	-9-	-	-	-	-	2.85
04-	35.3414-	109.1950-	2-	15-	0-	N08702-	09/03/78-	17-	30-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	5.08
04-	35.3322-	109.2119-	2-	15-	0-	N08703-	09/03/78-	13-	30-		-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	1-	2-	3-	1-	-1-	-	-	-	-	2.40
04-	35.3586-	109.2033-	2-	15-	0-	N08704-	09/03/78-	18-	29-		-C-	-		-	-	7-	1-	6-	4-	6-	-1-	-2-	1-	2-	3-	1-	-9-	-	-	-	-	7.81
04-	35.2975-	109.2097-	2-	15-	0-	N08705-	09/03/78-	17-	30-		-C-	-		-	-	6-	1-	6-	4-	6-	-1-	-2-	1-	2-	3-	1-	-9-	-	-	-	-	3.12
04-	35.3061-	109.2067-	2-	15-	0-	N08706-	09/03/78-	17-	29-		-C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	1-	2-	3-	1-	-9-	-	-	-	-	3.59

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

(2)

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
04-35.	2275-	109.0747-	2-	15-	0-	N08634	-5	-5	-5	19	-20	-15	-5	-10	-15	1	17
04-35.	2239-	109.0344-	2-	15-	0-	N08635	-5	5	-5	11	-20	-15	5	-10	-15	1	25
04-35.	2228-	109.0164-	2-	15-	0-	N08636	-5	-5	-5	17	-20	-15	6	-10	-15	1	20
04-35.	2389-	109.0261-	2-	11-	0-	N08637	-5	-5	-5	16	-20	-15	-5	-10	-15	1	26
04-35.	2289-	109.0064-	2-	15-	0-	N08638	-5	-5	-5	14	-20	-15	-5	-10	-15	1	17
04-35.	1981-	109.2183-	2-	15-	0-	N08641	-5	-5	-5	29	-20	-15	11	-10	-15	1	30
04-35.	0394-	109.2094-	2-	15-	0-	N08642	-5	-5	-5	26	-20	-15	-5	-10	-15	2	34
04-35.	3975-	109.0236-	2-	15-	0-	N08643	-5	-5	-5	25	-20	-15	9	-10	-15	1	17
04-35.	4042-	109.0339-	2-	15-	0-	N08644	-5	-5	-5	14	-20	-15	10	-10	-15	2	30
04-35.	4211-	109.0056-	2-	15-	0-	N08645	-5	9	-5	14	-20	-15	11	-10	-15	1	18
04-35.	4622-	109.0308-	2-	15-	0-	N08646	-5	5	-5	21	-20	-15	-5	-10	-15	1	14
04-35.	4675-	109.0050-	2-	15-	0-	N08647	-5	7	-5	17	-20	23	-5	-10	-15	1	16
04-35.	4928-	109.0242-	2-	15-	0-	N08648	-5	6	-5	20	-20	-15	-5	-10	-15	2	16
04-35.	5014-	109.0300-	2-	15-	0-	N08649	-5	-5	-5	16	-20	-15	13	-10	-15	2	20
04-35.	4931-	109.0308-	2-	11-	0-	N08650	-5	6	-5	17	-20	-15	8	-10	-15	1	21
04-35.	5581-	109.0247-	2-	15-	0-	N08653	-5	-5	-5	15	-20	-15	20	-10	-15	2	23
04-35.	5528-	109.0147-	2-	15-	0-	N08655	-5	-5	-5	14	-20	-15	11	-10	-15	2	19
04-35.	5964-	109.0519-	2-	15-	0-	N08657	-5	-5	-5	27	-20	-15	11	-10	-15	2	24
04-35.	6178-	109.0797-	2-	15-	0-	N08659	-5	-5	-5	20	-20	-15	13	-10	-15	1	20
04-35.	5853-	109.0828-	2-	15-	0-	N08661	-5	-5	-5	23	-20	-15	10	-10	-15	1	20
04-35.	5278-	109.0850-	2-	15-	0-	N08666	-5	-5	-5	13	-20	-15	-5	-10	-15	1	14
04-35.	4558-	109.1128-	2-	15-	0-	N08668	-5	-5	-5	16	-20	-15	8	-10	-15	1	18
04-35.	4644-	109.1119-	2-	15-	0-	N08669	-5	5	-5	14	-20	-15	11	-10	15	1	12
04-35.	4842-	109.0989-	2-	15-	0-	N08670	-5	-5	-5	35	-20	-15	11	-10	-15	2	28
04-35.	4856-	109.1008-	2-	15-	0-	N08671	-5	-5	-5	23	-20	17	10	-10	-15	1	17
04-35.	4747-	109.1192-	2-	15-	0-	N08672	-5	-5	-5	14	-20	-15	-5	-10	-15	1	16
04-35.	0261-	109.0597-	2-	15-	0-	N08673	-5	-5	-5	18	-20	-15	13	-10	-15	1	13
04-35.	0483-	109.0681-	2-	15-	0-	N08674	-5	6	-5	24	-20	15	12	-10	-15	2	26
04-35.	0111-	109.0836-	2-	15-	0-	N08675	-5	-5	-5	17	-20	-15	7	-10	-15	1	12
04-35.	0572-	109.1183-	2-	15-	0-	N08677	-5	-5	-5	26	-20	19	13	-10	-15	1	14
04-35.	0322-	109.1417-	2-	15-	0-	N08679	-5	-5	-5	13	-20	-15	9	-10	-15	1	21
04-35.	1869-	109.1897-	2-	15-	0-	N08682	-5	-5	-5	23	-20	-15	9	-10	-15	1	17
04-35.	1908-	109.1861-	2-	15-	0-	N08683	-5	-5	-5	26	-20	-15	8	-10	-15	2	20
04-35.	1683-	109.1947-	2-	15-	0-	N08686	-5	-5	-5	28	-20	17	5	-10	-15	2	27
04-35.	1681-	109.1678-	2-	15-	0-	N08687	-5	6	-5	31	-20	22	16	-10	-15	2	31
04-35.	1761-	109.1600-	2-	15-	0-	N08688	-5	-5	-5	24	-20	17	8	-10	-15	1	25
04-35.	1658-	109.1550-	2-	15-	0-	N08689	-5	-5	-5	68	-20	-15	12	-10	-15	2	43
04-35.	3056-	109.1256-	2-	15-	0-	N08690	-5	7	-5	28	-20	-15	9	-10	-15	2	51
04-35.	2653-	109.1833-	2-	15-	0-	N08692	-5	-5	-5	19	-20	-15	6	-10	-15	1	13
04-35.	2853-	109.1667-	2-	15-	0-	N08694	-5	-5	-5	26	-20	16	9	-10	-15	2	36
04-35.	3525-	109.1361-	2-	15-	0-	N08695	-5	-5	-5	24	-20	-15	7	-10	-15	1	21
04-35.	3403-	109.1789-	2-	15-	0-	N08696	-5	-5	-5	20	-20	33	7	-10	-15	1	18
04-35.	3667-	109.1917-	2-	15-	0-	N08698	-5	-5	-5	16	-20	-15	7	-10	-15	1	15
04-35.	3753-	109.1883-	2-	15-	0-	N08699	-5	-5	-5	18	-20	-15	8	-10	-15	2	15
04-35.	3781-	109.2061-	2-	15-	0-	N08700	-5	5	-5	23	-20	-15	-5	-10	-15	1	22
04-35.	3411-	109.1844-	2-	15-	0-	N08701	-5	-5	-5	29	-20	-15	8	-10	-15	1	26
04-35.	3414-	109.1950-	2-	15-	0-	N08702	-5	7	-5	18	-20	-15	6	-10	-15	1	23
04-35.	3322-	109.2119-	2-	15-	0-	N08703	-5	-5	-5	27	-20	-15	-5	-10	-15	1	17
04-35.	3586-	109.2033-	2-	15-	0-	N08704	7	11	-5	-10	-20	20	9	-10	-15	1	17
04-35.	2975-	109.2097-	2-	15-	0-	N08705	-5	-5	-5	25	-20	-15	8	-10	-15	1	23
04-35.	3061-	109.2067-	2-	15-	0-	N08706	-5	-5	-5	25	-20	-15	10	-10	-15	1	21

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB. SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)														
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
04-	35.2275-	109.0747-	2-	15-	0-	N08634	34050	-0.03	528	19540	35	-53	4.2	31	1.4	3	0.7	13540	16.8	15960	17	0.4
04-	35.2239-	109.0344-	2-	15-	0-	N08635	37170	-0.04	612	22660	33	-52	3.7	29	1.9	3	0.9	12990	15.5	16020	16	0.3
04-	35.2228-	109.0164-	2-	15-	0-	N08636	34190	-0.04	545	17760	32	-56	3.1	28	1.6	3	0.8	11260	13.9	14410	14	0.3
04-	35.2389-	109.0261-	2-	11-	0-	N08637	37630	-0.05	900	37910	43	-73	4.9	40	1.7	3	0.8	14590	11.9	12880	22	0.4
04-	35.2289-	109.0064-	2-	15-	0-	N08638	33920	-0.03	460	13690	37	-54	3.1	24	1.8	3	0.9	9831	10.3	15450	14	0.3
04-	35.1981-	109.2183-	2-	15-	0-	N08641	46110	-0.04	640	12910	51	-56	4.4	26	3.6	4	1.1	14930	9.3	18510	21	0.3
04-	35.0394-	109.2094-	2-	15-	0-	N08642	53450	-0.06	536	32790	60	-67	6.5	33	3.6	5	1.2	21950	14.6	17710	26	0.4
04-	35.3975-	109.0236-	2-	15-	0-	N08643	40350	-0.05	469	15160	58	-51	5.1	30	3.9	4	1.1	19400	14.8	13650	29	0.4
04-	35.4042-	109.0339-	2-	15-	0-	N08644	56530	-0.05	530	33810	65	-58	6.9	39	5.0	4	1.3	23930	10.1	17620	34	0.4
04-	35.4211-	109.0056-	2-	15-	0-	N08645	49480	-0.04	556	4796	51	-43	4.8	25	3.3	4	1.0	13380	10.6	17360	23	0.4
04-	35.4622-	109.0308-	2-	15-	0-	N08646	41200	-0.05	615	3468	46	68	4.5	22	2.4	4	1.0	11150	10.8	18520	23	0.4
04-	35.4675-	109.0050-	2-	15-	0-	N08647	44550	-0.05	658	2780	64	-56	7.0	37	4.1	5	1.3	17180	18.5	17970	33	0.6
04-	35.4928-	109.0242-	2-	15-	0-	N08648	41440	-0.05	1005	3452	104	136	6.0	41	3.1	7	1.1	17600	56.5	17290	44	1.0
04-	35.5014-	109.0300-	2-	15-	0-	N08649	45870	-0.04	774	4117	52	-55	6.0	22	3.2	4	1.1	12210	11.2	22710	23	0.4
04-	35.4931-	109.0308-	2-	11-	0-	N08650	47830	-0.05	654	7570	55	-62	5.4	23	3.3	4	1.1	12620	7.6	18880	23	0.3
04-	35.5581-	109.0247-	2-	15-	0-	N08653	55980	-0.06	920	6094	101	-68	9.2	41	5.6	6	2.1	23930	41.7	20430	49	0.8
04-	35.5528-	109.0147-	2-	15-	0-	N08656	52340	-0.04	891	4763	74	-63	6.4	24	3.1	5	0.9	15280	15.6	22120	33	0.5
04-	35.5964-	109.0519-	2-	15-	0-	N08657	60680	-0.05	749	4885	73	-61	7.7	38	5.0	6	1.4	19340	21.1	19730	34	0.5
04-	35.6178-	109.0797-	2-	15-	0-	N08659	48100	-0.05	681	4309	61	-60	5.4	24	3.0	4	1.1	13570	10.9	22810	25	0.4
04-	35.5853-	109.0828-	2-	15-	0-	N08661	49470	-0.07	597	4540	99	-61	8.4	68	5.5	6	1.9	26190	44.6	16890	49	0.8
04-	35.5278-	109.0850-	2-	15-	0-	N08664	32040	-0.04	522	8334	46	179	3.7	42	2.0	4	1.1	11450	20.8	16220	22	0.4
04-	35.4558-	109.1128-	2-	15-	0-	N08668	44280	-0.04	534	12510	57	-46	4.9	32	3.2	4	1.1	16020	19.2	16340	26	0.5
04-	35.4644-	109.1119-	2-	15-	0-	N08669	42180	-0.06	634	3043	113	-51	5.1	61	2.9	10	1.8	15820	79.8	15830	51	1.4
04-	35.4842-	109.0989-	2-	15-	0-	N08670	58810	-0.07	548	12260	78	725	9.7	51	5.4	6	1.6	23130	12.6	17630	41	0.5
04-	35.4856-	109.1008-	2-	15-	0-	N08671	42290	-0.05	630	10200	65	-55	5.9	49	3.3	5	1.5	18670	32.3	18020	31	0.6
04-	35.4747-	109.1192-	2-	15-	0-	N08672	39820	-0.04	627	11440	49	-49	4.4	36	2.6	4	1.1	14190	23.1	19640	26	0.5
04-	35.0261-	109.0597-	2-	15-	0-	N08673	42230	-0.04	562	4337	44	-63	4.1	29	1.8	3	0.9	13530	12.2	19240	19	0.3
04-	35.0483-	109.0681-	2-	15-	0-	N08674	52300	-0.06	468	7591	62	-71	8.5	43	4.8	4	1.5	25390	13.0	20350	31	0.4
04-	35.0111-	109.0836-	2-	15-	0-	N08675	37750	-0.04	469	4349	59	-56	6.8	48	2.4	4	1.2	25530	27.6	16260	27	0.5
04-	35.0572-	109.1183-	2-	15-	0-	N08677	44830	-0.03	655	4386	37	-58	3.3	20	2.3	3	1.0	10740	6.5	19390	17	0.2
04-	35.0322-	109.1417-	2-	15-	0-	N08679	46710	-0.05	555	5183	43	-68	4.9	28	3.2	4	0.9	15370	11.5	17670	20	0.3
04-	35.1869-	109.1897-	2-	15-	0-	N08682	40190	-0.04	624	5281	59	-60	5.4	35	2.8	4	0.7	16980	17.6	16230	25	0.4
04-	35.1908-	109.1861-	2-	15-	0-	N08683	39750	-0.04	625	10250	48	-59	4.4	33	2.1	4	1.2	16930	17.2	17390	21	0.4
04-	35.1683-	109.1947-	2-	15-	0-	N08686	51710	-0.06	614	17360	59	-70	7.8	34	4.0	5	1.2	26600	18.7	15680	28	0.4
04-	35.1681-	109.1678-	2-	15-	0-	N08687	55190	-0.07	570	35940	84	-70	11.4	56	5.7	6	1.6	42510	23.0	16200	45	0.6
04-	35.1761-	109.1600-	2-	15-	0-	N08688	50930	-0.05	595	18900	60	-63	7.0	47	4.0	4	1.3	26740	18.3	18960	30	0.4
04-	35.1658-	109.1550-	2-	15-	0-	N08689	66090	-0.07	508	46180	80	-66	10.2	49	5.8	6	1.5	31540	6.6	18600	32	0.4
04-	35.3056-	109.1256-	2-	15-	0-	N08690	101900	-0.06	500	6992	52	-30	9.3	59	3.6	4	0.9	34100	22.4	5312	25	0.5
04-	35.2653-	109.1833-	2-	15-	0-	N08692	47930	-0.06	525	9287	70	-62	8.8	60	3.8	4	1.6	31200	27.2	17250	34	0.6
04-	35.2853-	109.1667-	2-	15-	0-	N08694	74050	-0.06	1150	12680	80	-35	10.4	57	4.9	5	0.9	38860	19.8	12190	35	0.6
04-	35.3525-	109.1361-	2-	15-	0-	N08695	59960	-0.05	517	8049	49	-42	5.4	52	2.4	5	1.2	23700	22.0	11480	23	0.5
04-	35.3403-	109.1789-	2-	15-	0-	N08696	43480	-0.05	785	29150	64	1060	6.0	56	2.0	6	1.2	20460	21.8	9175	24	0.5
04-	35.3667-	109.1917-	2-	15-	0-	N08698	35800	-0.06	541	8036	80	-45	8.1	76	3.6	6	1.8	27880	52.8	12630	41	0.8
04-	35.3753-	109.1883-	2-	15-	0-	N08699	40930	-0.05	591	12970	72	-39	7.2	54	3.2	5	1.6	23640	33.5	12330	33	0.6
04-	35.3781-	109.2061-	2-	15-	0-	N08700	47360	-0.05	774	23420	67	145	5.9	47	3.5	6	1.5	24500	27.8	15020	33	0.6
04-	35.3411-	109.1844-	2-	15-	0-	N08701	49600	-0.05	560	23230	50	870	5.6	40	2.5	4	1.1	18810	12.7	12930	22	0.4
04-	35.3414-	109.1950-	2-	15-	0-	N08702	51490	-0.06	744	28340	97	317	9.7	83	4.5	6	2.3	39390	52.2	11380	47	0.9
04-	35.3322-	109.2119-	2-	15-	0-	N08703	43630	-0.04	535	4384	56	-56	4.5	39	2.5	4	1.1	14610	14.4	16580	25	0.4
04-	35.3586-	109.2033-	2-	15-	0-	N08704	39610	-0.05	479	5295	121	-48	8.7	72	2.7	11	2.5	35720	96.4	11750	53	1.6
04-	35.2975-	109.2097-	2-	15-	0-	N08705	55700	-0.05	517	9349	67	-44	5.8	42	3.2	5	1.2	20610	17.3	13030	28	0.5
04-	35.3061-	109.2067-	2-	15-	0-	N08706	45590	-0.06	728	13280	79	-55	8.3	66	5.0	6	1.9	28170	32.5	16880	41	0.7

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAS SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)													
							Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
04-	35.2275-	109.0747-	2-	15-	0-	N08634	10250	282	7297	44	-1	3.9	2.8	-166	-1		5.7	2440	37	2.4	45	0.349
04-	35.2239-	109.0344-	2-	15-	0-	N08635	10310	315	7561	49	-1	4.2	2.7	-165	-1		5.2	3015	38	2.6	49	0.390
04-	35.2228-	109.0164-	2-	15-	0-	N08636	9304	277	7183	38	-1	3.2	2.8	-153			4.9	2712	39	2.1	-30	0.394
04-	35.2389-	109.0261-	2-	11-	0-	N08637	10060	339	9077	52	-1	4.8	4.0	-187	-1	-1	7.1	2706	34	3.2	70	0.311
04-	35.2289-	109.0064-	2-	15-	0-	N08638	6954	185	7816	44	-1	3.2	2.7	-154			5.1	2030	24	2.4	30	0.314
04-	35.1981-	109.2183-	2-	15-	0-	N08641	11850	347	8300	61	-1	4.9	4.0	-181	-1	-1	8.3	2819	40	2.8	72	0.237
04-	35.0394-	109.2094-	2-	15-	0-	N08642	14140	400	7219	39	-1	6.6	4.9	-189	-1	-1	8.9	4230	68	2.9	65	0.282
04-	35.3975-	109.0236-	2-	15-	0-	N08643	6742	160	5455	63	-1	6.3	4.2	199	-1	-1	10.0	2663	35	3.5	-32	0.276
04-	35.4042-	109.0339-	2-	15-	0-	N08644	12470	214	6798	68	-1	8.0	5.2	309	-1	-1	10.6	3212	51	3.4	78	0.296
04-	35.4211-	109.0056-	2-	15-	0-	N08645	7183	160	5842	64	-1	5.5	4.4	-129	-1	-1	9.3	3284	41	3.3	65	0.324
04-	35.4622-	109.0308-	2-	15-	0-	N08646	6151	158	5515	46	-1	4.3	3.8	-125	-1	-1	7.4	3268	37	2.7	63	0.357
04-	35.4675-	109.0050-	2-	15-	0-	N08647	4601	157	7904	78	-1	7.2	5.0	-130	-1	-1	13.1	3693	39	4.3	82	0.265
04-	35.4928-	109.0242-	2-	15-	0-	N08648	3929	300	8018	67	-1	6.9	6.7	-182	2	1	18.6	5181	47	8.6	57	0.359
04-	35.5014-	109.0300-	2-	15-	0-	N08649	3932	220	8932	71	2	4.6	4.2	-159	-1	-1	9.4	3548	35	2.9	-59	0.343
04-	35.4931-	109.0308-	2-	11-	0-	N08650	4216	234	7501	45	-1	5.0	3.7	-155	-1	-1	7.9	3057	38	2.4	101	0.413
04-	35.5581-	109.0247-	2-	15-	0-	N08653	7434	295	9672	94	-1	8.9	8.0	-169	-1	-1	20.8	4459	60	6.1	-77	0.244
04-	35.5528-	109.0147-	2-	15-	0-	N08655	5428	242	10670	67	2	5.8	5.0	-178	-1	-1	11.7	3387	42	3.5	76	0.295
04-	35.5964-	109.0519-	2-	15-	0-	N08657	9250	296	8825	70	-1	7.7	5.9	-185	-1	-1	13.6	4552	63	5.0	96	0.308
04-	35.6178-	109.0797-	2-	15-	0-	N08659	5678	237	7907	69	-1	5.1	4.2	-152	-1	-1	10.3	3295	47	3.3	61	0.292
04-	35.5853-	109.0828-	2-	15-	0-	N08661	7742	313	6687	88	-1	8.8	6.7	-165	2	1	16.7	4294	58	6.2	104	0.273
04-	35.5278-	109.0850-	2-	15-	0-	N08666	6911	207	6397	50	-1	3.7	3.7	-148	-1		7.0	2889	31	3.9	40	0.384
04-	35.4558-	109.1128-	2-	15-	0-	N08668	8979	207	5504	65	-1	5.6	4.7	-144	-1	-1	10.1	3652	45	3.8	64	0.321
04-	35.4644-	109.1119-	2-	15-	0-	N08669	3960	281	5003	60	-1	6.6	11.3	-152	2	1	22.8	5851	48	9.8	66	0.387
04-	35.4842-	109.0989-	2-	15-	0-	N08670	13010	278	8360	108	-2	9.9	6.5	-178	-1	-1	15.0	4373	55	4.7	51	0.269
04-	35.4856-	109.1008-	2-	15-	0-	N08671	11140	305	6925	59	-1	5.8	4.9	-177	-1	-1	11.3	3658	46	5.7	37	0.337
04-	35.4747-	109.1192-	2-	15-	0-	N08672	7052	240	6829	54	-1	4.6	4.1	-152	-1	1	9.0	3621	42	3.7	58	0.363
04-	35.0261-	109.0597-	2-	15-	0-	N08673	6826	268	8905	50	-1	3.5	3.4	-159	-1		5.8	3608	44	2.7	55	0.348
04-	35.0483-	109.0681-	2-	15-	0-	N08674	12730	486	8597	79	-1	8.0	5.3	-203	-1	-1	10.4	3383	55	3.4	73	0.209
04-	35.0111-	109.0836-	2-	15-	0-	N08675	4519	420	8156	56	-1	4.9	4.0	-192	-1	-1	8.6	5070	70	4.1	47	0.351
04-	35.0572-	109.1183-	2-	15-	0-	N08677	5686	211	10350	65	-1	3.3	3.2	-158			5.3	2427	33	2.0	58	0.304
04-	35.0322-	109.1417-	2-	15-	0-	N08679	8158	375	8368	55	-1	4.6	3.8	-186	-1	-1	7.1	3457	47	2.8	125	0.314
04-	35.1869-	109.1897-	2-	15-	0-	N08682	5773	413	8804	50	-1	4.3	4.4	-201	-1	-1	8.6	3643	47	3.3	68	0.274
04-	35.1908-	109.1861-	2-	15-	0-	N08683	6078	445	9129	77	-1	3.8	4.6	-199	-1	-1	8.2	4064	47	3.3	34	0.294
04-	35.1683-	109.1947-	2-	15-	0-	N08686	15580	554	7722	52	-1	6.7	5.0	-212	-1	-1	9.5	4985	82	4.0	66	0.297
04-	35.1681-	109.1678-	2-	15-	0-	N08687	20050	553	6053	105	-2	11.3	6.4	-213	-1	-1	14.2	4776	92	3.6	83	0.206
04-	35.1761-	109.1600-	2-	15-	0-	N08688	14800	452	8530	42	-1	7.2	4.9	-213	2	-1	10.2	4107	75	3.9	82	0.264
04-	35.1658-	109.1550-	2-	15-	0-	N08689	29900	743	4821	74	-2	11.6	6.4	-278	-1	-1	12.6	3583	72	3.4	-83	0.187
04-	35.3056-	109.1256-	2-	15-	0-	N08690	11050	159	1245	-22	-2	12.2	3.7	310	-1	-1	16.7	6062	111	4.0	90	0.340
04-	35.2653-	109.1833-	2-	15-	0-	N08692	9370	355	6659	85	-1	8.1	5.5	-168	-1	-1	11.9	4186	68	4.8	-24	0.246
04-	35.2853-	109.1667-	2-	15-	0-	N08694	19120	357	1229	61	-1	11.5	6.0	-182	-1	-1	15.3	5048	88	3.7	50	0.262
04-	35.3525-	109.1361-	2-	15-	0-	N08695	11380	234	4144	-18	-1	7.9	4.6	-147	-1	1	13.1	4985	64	4.1	78	0.249
04-	35.3403-	109.1789-	2-	15-	0-	N08696	11890	300	3313	-18	-1	5.9	4.8	382	-1	-1	11.0	3916	62	3.5	43	0.315
04-	35.3667-	109.1917-	2-	15-	0-	N08698	8894	298	3775	-20	-1	7.6	6.0	-144	-1	-1	17.0	4754	61	6.9	40	0.255
04-	35.3753-	109.1883-	2-	15-	0-	N08699	12110	333	2405	48	-1	7.6	5.7	-173	-1	-1	13.0	4632	67	5.1	62	0.322
04-	35.3781-	109.2061-	2-	15-	0-	N08700	11120	357	3223	59	-1	7.1	5.5	-171	-1	-1	12.5	4682	71	5.3	-45	0.321
04-	35.3411-	109.1844-	2-	15-	0-	N08701	11350	313	3635	38	-1	6.1	4.6	-164	-1	-1	10.0	3609	58	2.7	-16	0.285
04-	35.3414-	109.1950-	2-	15-	0-	N08702	13590	411	2998	85	-1	10.5	7.4	-175	-1	1	18.4	5364	85	7.1	81	0.276
04-	35.3322-	109.2119-	2-	15-	0-	N08703	6948	297	8169	54	-1	4.7	3.7	-173	-1	-1	8.1	2889	41	3.2	39	0.296
04-	35.3586-	109.2033-	2-	15-	0-	N08704	9948	504	5062	45	-1	7.0	9.7	-194	2	2	21.1	8689	99	11.9	58	0.370
04-	35.2975-	109.2097-	2-	15-	0-	N08705	8579	235	3859	53	-1	6.6	4.8	-138	1	-1	10.7	4188	63	3.0	96	0.292
04-	35.3061-	109.2067-	2-	15-	0-	N08706	10840	347	4876	76	-1	7.9	6.6	-161	-1	-1	14.7	4659	61	4.9	56	0.244

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.2855-	109.2597-	2-	11-	0-	N08709-	09/03/78-	19-	27-	19.0-	C-	-	6.9-	670-	9-1-6-4-6-	6-2-2-2-	-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.86
04-	35.2711-	109.2767-	2-	15-	0-	N08710-	09/03/78-	19-	27-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.14
04-	35.2817-	109.3136-	2-	15-	0-	N08712-	09/09/78-	10-	28-	-	C-	-	-	-	11-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.79
04-	35.3131-	109.2906-	2-	15-	0-	N08713-	09/04/78-	10-	28-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.64
04-	35.3111-	109.2772-	2-	15-	0-	N08714-	09/04/78-	11-	28-	-	C-	-	-	-	12-1-6-4-6-	-1-	-2-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.92
04-	35.3164-	109.3072-	2-	15-	0-	N08715-	09/09/78-	11-	29-	-	C-	-	-	-	9-1-6-4-6-	-1-	-2-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.89
04-	35.3336-	109.2758-	2-	15-	0-	N08717-	09/04/78-	12-	29-	-	C-	-	-	-	7-1-6-4-6-	-1-	-2-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.33
04-	35.3431-	109.3019-	2-	15-	0-	N08718-	09/04/78-	13-	30-	-	C-	-	-	-	12-1-6-4-6-	-1-	-2-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31
04-	35.4231-	109.2717-	2-	15-	0-	N08720-	09/09/78-	13-	30-	-	C-	-	-	-	7-1-6-4-6-	-1-	-3-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.59
04-	35.4092-	109.2517-	2-	15-	0-	N08722-	09/04/78-	14-	31-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
04-	35.3908-	109.3411-	2-	15-	0-	N08723-	09/04/78-	15-	31-	-	C-	-	-	-	6-1-4-6-	-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.44
04-	35.4058-	109.3703-	2-	15-	0-	N08724-	09/04/78-	15-	30-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.75
04-	35.3806-	109.3658-	2-	15-	0-	N08726-	09/04/78-	16-	30-	-	C-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.81
04-	35.3819-	109.3706-	2-	15-	0-	N08727-	09/04/78-	17-	30-	-	C-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.86
04-	35.3453-	109.3736-	2-	15-	0-	N08729-	09/04/78-	18-	29-	-	-	-	-	-	6-1-6-4-6-	-1-	-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.79
04-	35.3219-	109.3539-	2-	15-	0-	N08730-	09/04/78-	17-	29-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.61
04-	35.2992-	109.3644-	2-	15-	0-	N08731-	09/04/78-	18-	27-	-	-	-	-	-	3-1-6-4-6-	-1-	-2-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.68
04-	35.2583-	109.3625-	2-	15-	0-	N08732-	09/04/78-	18-	27-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.38
04-	35.3822-	109.0869-	2-	15-	0-	N08734-	09/08/78-	9-	27-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.86
04-	35.3836-	109.0589-	2-	15-	0-	N08735-	09/08/78-	8-	26-	-	-	-	-	-	6-1-6-4-6-	-1-	-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.22
04-	35.4347-	109.1278-	2-	15-	0-	N08737-	09/08/78-	11-	29-	-	C-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.84
04-	35.4456-	109.1275-	2-	15-	0-	N08738-	09/08/78-	11-	29-	-	C-	-	-	-	4-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.65
04-	35.4783-	109.1333-	2-	15-	0-	N08739-	09/08/78-	11-	29-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.07
04-	35.4600-	109.1483-	2-	11-	0-	N08742-	09/08/78-	12-	29-	20.0-	C-	-	6.8-	970-	9-1-6-4-6-	2-2-2-	-2-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.63
04-	35.4353-	109.2028-	2-	15-	0-	N08743-	09/08/78-	14-	30-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.23
04-	35.4100-	109.2083-	2-	15-	0-	N08744-	09/09/78-	14-	30-	-	-	-	-	-	11-1-6-4-6-	-1-	-2-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.54
04-	35.4750-	109.2200-	2-	15-	0-	N08746-	09/08/78-	15-	30-	-	-	-	-	-	6-1-6-4-6-	-1-	-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.15
04-	35.5017-	109.3006-	2-	15-	0-	N08749-	09/09/78-	18-	27-	-	C-	-	-	-	0-1-6-4-6-	-1-	-2-1-3-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.99
04-	35.4958-	109.2528-	2-	15-	0-	N08751-	09/08/78-	19-	26-	-	C-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.47
04-	35.4853-	109.3528-	2-	15-	0-	N08752-	09/08/78-	19-	26-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.76
04-	35.4583-	109.3111-	2-	15-	0-	N08753-	09/08/78-	19-	26-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31
04-	35.4564-	109.3358-	2-	15-	0-	N08754-	09/09/78-	19-	26-	-	-	-	-	-	6-1-6-4-6-	-1-	-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
04-	35.0308-	109.2208-	2-	15-	0-	N08756-	09/09/78-	9-	27-	-	C-	-	-	-	6-1-6-4-6-	-1-	-1-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.32
04-	35.0633-	109.1928-	2-	15-	0-	N08757-	09/09/78-	9-	27-	-	C-	-	-	-	6-1-6-4-6-	-1-	-3-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.29
04-	35.0656-	109.1861-	2-	15-	0-	N08758-	09/09/78-	10-	27-	-	C-	-	-	-	9-1-6-4-6-	-1-	-3-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.29
04-	35.0781-	109.1706-	2-	15-	0-	N08759-	09/09/78-	10-	27-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.29
04-	35.1019-	109.1542-	2-	15-	0-	N08760-	09/09/78-	11-	28-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.59
04-	35.1289-	109.1644-	2-	15-	0-	N08761-	09/09/78-	11-	28-	-	C-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.81
04-	35.1286-	109.1233-	2-	15-	0-	N08763-	09/09/78-	12-	29-	-	C-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.22
04-	35.1642-	109.0983-	2-	15-	0-	N08765-	09/09/78-	13-	29-	-	C-	-	-	-	9-1-6-4-6-	-1-	-1-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.46
04-	35.1781-	109.0528-	2-	15-	0-	N08767-	09/09/78-	13-	28-	-	C-	-	-	-	7-1-6-4-6-	-1-	-3-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.67
04-	35.1208-	109.2397-	2-	15-	0-	N08770-	09/09/78-	16-	30-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.77
04-	35.0797-	109.2344-	2-	15-	0-	N08772-	09/09/78-	17-	30-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
04-	35.0161-	109.2008-	2-	15-	0-	N08773-	09/09/78-	18-	27-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
04-	35.0231-	109.1842-	2-	15-	0-	N08774-	09/09/78-	18-	27-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.59
04-	35.0181-	109.1736-	2-	15-	0-	N08775-	09/09/78-	18-	28-	-	C-	-	-	-	0-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
04-	35.1044-	109.1150-	2-	15-	0-	N08777-	09/09/78-	15-	30-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.04
04-	35.2044-	109.4392-	2-	15-	0-	N08778-	09/10/78-	10-	27-	-	C-	-	-	-	6-1-6-4-6-	-1-	-3-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.12
04-	35.2264-	109.4611-	2-	15-	0-	N08779-	09/10/78-	10-	28-	-	C-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.05
04-	35.1803-	109.4636-	2-	15-	0-	N08780-	09/10/78-	11-	28-	-	C-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.16
04-	35.2289-	109.4119-	2-	15-	0-	N08781-	09/10/78-	11-	28-	-	C-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60

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

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
04-	35.2856-	109.2597-	2-	11-	0-	N08709	-5	-5	-5	19	-20	-15	-5	-10	-15	-1	13
04-	35.2711-	109.2767-	2-	15-	0-	N08710	-5	-5	-5	21	-20	-15	7	-10	-15	1	19
04-	35.2817-	109.3136-	2-	15-	0-	N08712	-5	-5	-5	20	-20	-15	-5	-10	-15	1	16
04-	35.3131-	109.2906-	2-	15-	0-	N08713	-5	6	-5	22	-20	-15	7	-10	-15	-1	10
04-	35.3111-	109.2772-	2-	15-	0-	N08714	-5	-5	-5	21	-20	-15	5	-10	-15	2	21
04-	35.3164-	109.3072-	2-	15-	0-	N08715	-5	-5	-5	18	-20	-15	9	-10	-15	1	18
04-	35.3336-	109.2758-	2-	15-	0-	N08717	-5	-5	-5	20	-20	15	-5	-10	-15	1	18
04-	35.3431-	109.3019-	2-	15-	0-	N08718	-5	6	-5	36	-20	-15	12	-10	-15	1	22
04-	35.4231-	109.2717-	2-	15-	0-	N08720	-5	7	-5	12	-20	16	10	-10	-15	1	16
04-	35.4092-	109.2517-	2-	15-	0-	N08722	-5	-5	-5	14	-20	-15	9	-10	-15	1	20
04-	35.3908-	109.3411-	2-	15-	0-	N08723	-5	6	-5	19	-20	18	11	-10	-15	1	25
04-	35.4058-	109.3703-	2-	15-	0-	N08724	-5	5	-5	28	-20	16	9	-10	-15	1	33
04-	35.3806-	109.3658-	2-	15-	0-	N08726	-5	-5	-5	18	-20	15	-5	-10	-15	1	24
04-	35.3819-	109.3706-	2-	15-	0-	N08727	-5	-5	-5	19	-20	-15	-5	-10	-15	1	23
04-	35.3453-	109.3736-	2-	15-	0-	N08729	-5	-5	-5	21	-20	-15	6	-10	-15	1	38
04-	35.3219-	109.3539-	2-	15-	0-	N08730	-5	-5	-5	23	-20	-15	-5	-10	-15	1	22
04-	35.2992-	109.3644-	2-	15-	0-	N08731	-5	-5	-5	21	-20	25	6	-10	-15	2	37
04-	35.2583-	109.3625-	2-	15-	0-	N08732	-5	-5	-5	24	-20	-15	-5	-10	-15	1	26
04-	35.3822-	109.0869-	2-	15-	0-	N08734	-5	-5	-5	29	-20	-15	8	-10	-15	1	32
04-	35.3836-	109.0589-	2-	15-	0-	N08735	-5	-5	-5	26	-20	-15	8	-10	-15	1	18
04-	35.4347-	109.1278-	2-	15-	0-	N08737	-5	-5	-5	-10	-20	21	-5	-10	-15	1	16
04-	35.4456-	109.1275-	2-	15-	0-	N08738	-5	-5	-5	38	-20	-15	-5	-10	-15	2	38
04-	35.4783-	109.1333-	2-	15-	0-	N08739	-5	6	-5	27	-20	15	-5	-10	-15	-1	31
04-	35.4600-	109.1483-	2-	11-	0-	N08742	-5	-5	-5	36	-20	15	6	-10	-15	2	46
04-	35.4353-	109.2028-	2-	15-	0-	N08743	-5	-5	-5	21	-20	16	7	-10	-15	2	35
04-	35.4100-	109.2083-	2-	15-	0-	N08744	-5	10	-5	13	-20	-15	7	-10	-15	1	20
04-	35.4750-	109.2200-	2-	15-	0-	N08746	-5	10	-5	25	-20	-15	6	-10	-15	-1	18
04-	35.5017-	109.3006-	2-	15-	0-	N08749	-5	5	-5	25	-20	-15	8	-10	-15	1	30
04-	35.4958-	109.2528-	2-	15-	0-	N08751	-5	-5	-5	29	-20	-15	5	-10	-15	-1	24
04-	35.4853-	109.3528-	2-	15-	0-	N08752	-5	7	-5	14	-20	-15	10	-10	-15	1	24
04-	35.4583-	109.3111-	2-	15-	0-	N08753	-5	-5	-5	20	-20	-15	8	-10	-15	1	29
04-	35.4564-	109.3358-	2-	15-	0-	N08754	-5	5	-5	29	-20	-15	7	-10	-15	1	29
04-	35.0308-	109.2208-	2-	15-	0-	N08756	-5	-5	-5	27	-20	-15	5	-10	-15	1	21
04-	35.0633-	109.1928-	2-	15-	0-	N08757	-5	6	-5	26	-20	-15	-5	-10	-15	1	22
04-	35.0656-	109.1861-	2-	15-	0-	N08758	-5	-5	-5	22	-20	-15	5	-10	-15	1	32
04-	35.0781-	109.1706-	2-	15-	0-	N08759	-5	-5	-5	23	-20	15	7	-10	-15	1	26
04-	35.1019-	109.1 42-	2-	15-	0-	N08760	-5	5	-5	19	-20	-15	-5	-10	-15	1	20
04-	35.1289-	109.1644-	2-	15-	0-	N08761	-5	-5	-5	25	-20	-15	-5	-10	-15	1	28
04-	35.1286-	109.1233-	2-	15-	0-	N08763	-5	-5	-5	18	-20	-15	7	-10	-15	1	19
04-	35.1642-	109.0983-	2-	15-	0-	N08765	-5	-5	-5	40	-20	15	14	-10	-15	1	29
04-	35.1781-	109.0528-	2-	15-	0-	N08767	-5	-5	-5	16	-20	-15	6	-10	-15	1	23
04-	35.1208-	109.2397-	2-	15-	0-	N08770	-5	-5	-5	17	-20	-15	6	-10	-15	1	32
04-	35.0797-	109.2344-	2-	15-	0-	N08772	-5	8	-5	21	-20	-15	8	-10	-15	2	27
04-	35.0161-	109.2008-	2-	15-	0-	N08773	-5	-5	-5	20	-20	-15	-5	-10	-15	1	20
04-	35.0231-	109.1842-	2-	15-	0-	N08774	-5	-5	-5	23	-20	-15	11	-10	-15	2	39
04-	35.0181-	109.1736-	2-	15-	0-	N08775	-5	-5	-5	15	-20	-15	11	-10	-15	1	29
04-	35.1044-	109.1150-	2-	15-	0-	N08777	-5	-5	-5	17	-20	-15	6	-10	-15	1	34
04-	35.2044-	109.4392-	2-	15-	0-	N08778	-5	-5	-5	25	-20	-15	10	-10	-15	1	36
04-	35.2264-	109.4611-	2-	15-	0-	N08779	-5	-5	-5	30	-20	-15	12	-10	-15	2	52
04-	35.1803-	109.4636-	2-	15-	0-	N08780	-5	7	-5	26	-20	-15	5	-10	-15	2	34
04-	35.2289-	109.4119-	2-	15-	0-	N08781	-5	5	-5	18	-20	-15	11	-10	-15	2	20

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
04-	35.2856-	109.2597-	2-	11-	0-	N08709	32850	-0.03	599	15380	37	200	2.7	23	3.4	3	0.6	10420	13.4	15710	17	0.3
04-	35.2711-	109.2767-	2-	15-	0-	N08710	38720	-0.04	618	31940	59	-50	6.6	49	8.7	4	1.4	22440	25.6	15470	26	0.5
04-	35.2817-	109.3136-	2-	15-	0-	N08712	37490	-0.04	544	7512	44	-55	3.7	22	3.1	3	1.0	12520	9.9	16930	16	0.3
04-	35.3131-	109.2906-	2-	15-	0-	N08713	32970	-0.04	483	4417	43	-57	3.9	37	3.4	3	1.0	12140	13.4	15730	23	0.3
04-	35.3111-	109.2772-	2-	15-	0-	N08714	39100	-0.04	548	15230	45	-54	5.5	31	4.3	3	1.1	15430	8.6	17770	20	0.3
04-	35.3164-	109.3072-	2-	15-	0-	N08715	39340	-0.03	552	16516	44	-53	3.9	26	3.0	3	1.0	13950	13.3	16560	21	0.3
04-	35.3336-	109.2758-	2-	15-	0-	N08717	37710	-0.04	483	14910	44	63	4.7	27	3.1	4	0.9	14650	13.5	15770	19	0.3
04-	35.3431-	109.3019-	2-	15-	0-	N08718	45130	-0.05	602	6468	66	-78	7.9	38	4.5	4	1.4	20030	15.8	18860	33	0.5
04-	35.4231-	109.2717-	2-	15-	0-	N08720	32270	-0.05	364	4520	84	-57	7.6	107	2.6	6	1.7	30610	93.0	13450	42	1.0
04-	35.4092-	109.2517-	2-	15-	0-	N08722	36000	-0.04	435	5118	58	-54	4.5	49	1.9	4	1.3	14920	30.0	16190	26	0.5
04-	35.3908-	109.3411-	2-	15-	0-	N08723	41710	-0.05	510	5375	74	-68	6.3	56	2.6	5	1.2	24450	28.0	16260	28	0.6
04-	35.4058-	109.3703-	2-	15-	0-	N08724	46900	-0.05	498	6176	78	-75	8.6	51	5.5	5	1.5	25660	20.5	18330	32	0.5
04-	35.3806-	109.3658-	2-	15-	0-	N08726	40430	-0.04	493	5171	59	-59	4.9	42	3.2	4	1.3	18150	22.7	17000	29	0.5
04-	35.3819-	109.3706-	2-	15-	0-	N08727	42720	-0.04	528	5496	59	-58	5.2	45	3.6	4	1.2	17540	18.4	14710	25	0.5
04-	35.3453-	109.3736-	2-	15-	0-	N08729	39550	-0.04	442	20250	60	-62	5.6	45	3.3	4	1.1	21230	22.4	15830	25	0.4
04-	35.3219-	109.3539-	2-	15-	0-	N08730	41940	-0.05	525	6146	68	-65	6.4	50	3.4	4	1.4	22710	23.4	18630	31	0.5
04-	35.2992-	109.3644-	2-	15-	0-	N08731	43790	-0.04	651	44110	61	-59	6.0	46	3.3	5	1.3	21290	20.3	15930	32	0.5
04-	35.2583-	109.3625-	2-	15-	0-	N08732	43530	-0.04	503	4702	66	-55	6.3	58	3.5	5	1.4	22640	26.6	17220	31	0.6
04-	35.3822-	109.0869-	2-	15-	0-	N08734	51610	-0.05	597	26050	61	-60	6.6	39	2.8	4	1.1	19080	10.6	15850	26	0.4
04-	35.3836-	109.0589-	2-	15-	0-	N08735	43160	-0.05	421	11640	62	-53	6.9	38	3.3	5	1.2	21600	23.1	15210	29	0.5
04-	35.4347-	109.1278-	2-	15-	0-	N08737	34850	-0.03	442	7154	41	-45	3.4	40	2.3	3	1.1	12150	34.1	19680	19	0.5
04-	35.4456-	109.1275-	2-	15-	0-	N08738	51530	-0.05	859	31520	67	-41	10.0	59	4.6	6	1.5	29950	17.5	15000	32	0.5
04-	35.4783-	109.1333-	2-	15-	0-	N08739	40370	-0.04	423	15800	53	184	4.0	49	2.1	5	1.0	13530	19.6	17550	22	0.5
04-	35.4600-	109.1483-	2-	11-	0-	N08742	53100	-0.07	728	35950	85	-54	13.2	87	6.6	6	1.8	37030	27.9	17900	38	0.6
04-	35.4353-	109.2028-	2-	15-	0-	N08743	52930	-0.04	603	5939	66	-52	6.2	44	3.8	4	1.3	20220	15.1	16830	29	0.4
04-	35.4100-	109.2083-	2-	15-	0-	N08744	41790	-0.04	592	7075	52	-52	4.8	35	2.5	4	1.2	14160	20.3	16810	25	0.4
04-	35.4750-	109.2200-	2-	15-	0-	N08746	34940	-0.05	439	3424	61	-54	3.7	60	1.6	5	1.3	13630	45.5	15180	23	0.6
04-	35.5017-	109.3006-	2-	15-	0-	N08749	48220	-0.06	512	5255	79	-71	9.1	54	5.0	5	1.7	23030	18.4	16270	35	0.6
04-	35.4958-	109.2528-	2-	15-	0-	N08751	41250	-0.04	583	4194	52	-56	4.5	37	2.4	4	1.0	12120	15.6	17240	22	0.4
04-	35.4853-	109.3528-	2-	15-	0-	N08752	42640	-0.05	481	4836	96	-61	6.0	66	2.1	7	1.6	22870	44.8	15310	46	0.7
04-	35.4583-	109.3111-	2-	15-	0-	N08753	42390	-0.04	525	5148	51	-65	4.7	31	3.0	4	1.0	12050	9.1	14870	20	0.3
04-	35.4564-	109.3358-	2-	15-	0-	N08754	40920	-0.06	413	4697	75	-66	7.4	60	3.2	5	1.9	20550	31.0	16380	34	0.7
04-	35.0308-	109.2208-	2-	15-	0-	N08756	43640	-0.04	605	17900	53	-59	4.5	35	2.3	4	0.7	16670	18.0	18380	26	0.4
04-	35.0633-	109.1928-	2-	15-	0-	N08757	51160	-0.04	592	4700	54	-57	5.7	36	3.2	4	1.1	17210	11.4	19990	26	0.4
04-	35.0656-	109.1861-	2-	15-	0-	N08758	56440	-0.05	576	10630	54	-63	5.9	35	4.1	4	1.1	19460	12.6	16310	23	0.3
04-	35.0781-	109.1706-	2-	15-	0-	N08759	45120	-0.05	583	8647	62	-65	7.3	37	3.5	4	1.4	21960	19.4	18570	30	0.4
04-	35.1019-	109.1542-	2-	15-	0-	N08760	39790	-0.04	491	6166	95	-65	9.1	61	2.6	5	1.8	40790	52.7	15350	44	0.7
04-	35.1289-	109.1644-	2-	15-	0-	N08761	49840	-0.04	697	7245	63	-65	6.2	42	3.1	4	1.4	22800	22.7	18040	32	0.5
04-	35.1286-	109.1233-	2-	15-	0-	N08763	41450	-0.03	654	5557	44	-65	3.7	28	2.2	4	1.0	13530	13.8	17820	21	0.4
04-	35.1642-	109.0983-	2-	15-	0-	N08765	47540	-0.05	625	6048	66	-82	8.0	45	4.6	4	1.5	22450	15.8	19030	30	0.4
04-	35.1781-	109.0528-	2-	15-	0-	N08767	38620	-0.04	498	5771	55	-58	5.4	45	2.5	4	1.2	22780	22.4	16020	24	0.4
04-	35.1208-	109.2397-	2-	15-	0-	N08770	39220	-0.04	555	35160	57	-54	4.7	42	9.5	4	1.2	18610	22.7	15800	25	0.4
04-	35.0797-	109.2344-	2-	15-	0-	N08772	52480	-0.05	588	18450	51	-68	5.4	33	3.2	4	1.1	17580	12.0	19690	22	0.4
04-	35.0161-	109.2008-	2-	15-	0-	N08773	42260	-0.05	529	5720	63	-66	7.2	50	2.6	5	1.6	26140	29.1	17250	33	0.5
04-	35.0231-	109.1842-	2-	15-	0-	N08774	52400	-0.05	643	9117	75	-62	7.2	45	4.6	4	1.2	24830	13.3	18270	28	0.4
04-	35.0181-	109.1736-	2-	15-	0-	N08775	48170	-0.06	682	11840	79	-59	15.8	57	6.6	5	2.9	31380	29.8	19410	39	0.6
04-	35.1044-	109.1150-	2-	15-	0-	N08777	54310	-0.04	627	9205	62	-67	6.6	30	3.3	4	1.1	18180	8.6	17300	23	0.3
04-	35.2044-	109.4392-	2-	15-	0-	N08778	47020	-0.05	680	25300	57	-64	7.0	43	5.3	4	1.4	20860	13.2	18450	30	0.4
04-	35.2264-	109.4611-	2-	15-	0-	N08779	54240	-0.05	582	33160	57	-62	6.9	40	8.4	4	1.4	21330	8.9	20240	28	0.3
04-	35.1803-	109.4636-	2-	15-	0-	N08780	43480	-0.04	606	15780	49	-53	4.3	35	5.0	3	1.2	17730	14.2	17820	20	0.4
04-	35.2289-	109.4119-	2-	15-	0-	N08781	38610	-0.04	492	8625	55	-58	4.4	30	7.8	4	1.1	16330	18.8	17150	20	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	
04-	35.2856-	109.2597-	2-	11-		0-N08709	4691	224	6731	44	-1	3.1	2.7	-156	-1		5.0	2266	35	2.6	21	0.372
04-	35.2711-	109.2767-	2-	15-		0-N08710	9966	458	5121	59	-1	6.1	4.7	-185	-1	-1	10.4	4386	64	4.2	79	0.302
04-	35.2817-	109.3136-	2-	15-		0-N08712	6651	324	6666	53	-1	3.5	3.3	-161	-1		5.8	2309	37	2.3	-33	0.309
04-	35.3131-	109.2906-	2-	15-		0-N08713	4603	222	7458	70	-1	3.7	3.7	-138	-1	-1	8.3	2182	29	2.8	45	0.198
04-	35.3111-	109.2772-	2-	15-		0-N08714	7621	458	5709	54	-1	5.2	3.7	-199	-1	-1	7.4	2209	44	2.8	49	0.259
04-	35.3164-	109.3072-	2-	15-		0-N08715	7296	297	7556	58	-1	3.9	3.3	-166	-1		6.8	2650	37	2.3	44	0.278
04-	35.3336-	109.2758-	2-	15-		0-N08717	7923	431	5863	46	-1	4.4	3.6	-179	-1	-1	7.1	3235	46	2.6	42	0.328
04-	35.3431-	109.3019-	2-	15-		0-N08718	8157	591	9141	66	-1	6.4	5.6	-236	-1	-1	10.6	3025	41	4.1	-47	0.218
04-	35.4231-	109.2717-	2-	15-		0-N08720	5588	682	5839	50	-1	6.3	5.9	-240	-1	-1	14.0	7346	77	7.3	82	0.399
04-	35.4092-	109.2517-	2-	15-		0-N08722	5884	395	6989	44	-1	4.3	4.8	-183	-1	-1	9.5	4587	45	4.3	-41	0.333
04-	35.3908-	109.3411-	2-	15-		0-N08723	8923	489	8459	61	-1	5.0	5.5	-196	-1	-1	11.3	5655	76	4.3	-65	0.304
04-	35.4058-	109.3703-	2-	15-		0-N08724	10280	649	8899	61	-1	7.4	6.0	-218	-1	-1	11.9	3845	61	4.2	73	0.231
04-	35.3806-	109.3658-	2-	15-		0-N08726	6730	374	8543	41	-1	4.6	4.4	-190	-1	-1	9.8	3868	50	3.8	48	0.287
04-	35.3819-	109.3706-	2-	15-		0-N08727	7213	407	9241	56	-1	4.9	4.9	-187	-1	-1	8.8	4549	46	3.9	62	0.325
04-	35.3453-	109.3736-	2-	15-		0-N08729	8767	404	7086	69	-1	4.7	4.0	-175	-1	1	9.4	4500	69	3.1	-71	0.297
04-	35.3219-	109.3539-	2-	15-		0-N08730	7116	400	8146	59	-1	5.1	4.9	-174	-1	1	10.4	4102	47	3.9	69	0.251
04-	35.2992-	109.3644-	2-	15-		0-N08731	11650	370	6923	49	-1	5.8	4.7	-191	-1	-1	10.1	4186	60	4.1	44	0.265
04-	35.2583-	109.3625-	2-	15-		0-N08732	7938	368	8488	49	-1	5.6	5.0	-178	1	-1	11.2	5407	64	4.4	63	0.302
04-	35.3822-	109.0869-	2-	15-		0-N08734	13860	446	5594	56	-1	6.5	4.7	-185	-1	-1	8.5	3677	63	2.6	-56	0.336
04-	35.3836-	109.0589-	2-	15-		0-N08735	6471	209	6276	68	-1	6.5	5.1	-134	-1	-1	11.7	3145	43	4.1	70	0.275
04-	35.4347-	109.1278-	2-	15-		0-N08737	6513	267	5615	45	-1	3.7	2.8	-155	-1		6.7	2629	35	3.3	48	0.424
04-	35.4456-	109.1275-	2-	15-		0-N08738	22850	557	1289	66	2	10.5	7.3	-208	-1	-1	12.3	4612	88	4.6	80	0.297
04-	35.4783-	109.1333-	2-	15-		0-N08739	15230	277	8253	42	-1	4.6	4.4	-161	-1	-1	9.0	4251	41	3.0	47	0.341
04-	35.4600-	109.1483-	2-	11-		0-N08742	17560	617	2136	88	-2	12.3	6.9	-218	-1	-1	14.5	4213	85	5.0	121	0.250
04-	35.4353-	109.2028-	2-	15-		0-N08743	10700	269	6718	68	-1	6.4	4.8	-171	-1	-1	9.3	2995	58	4.1	57	0.240
04-	35.4100-	109.2083-	2-	15-		0-N08744	5910	295	7461	57	-1	4.4	4.5	-165	-1	-1	8.4	3937	42	3.8	67	0.302
04-	35.4750-	109.2200-	2-	15-		0-N08746	5033	321	5618	40	-1	4.2	5.6	-161	-1	-1	8.5	4224	41	4.1	67	0.488
04-	35.5017-	109.3006-	2-	15-		0-N08749	7714	418	7926	93	-1	8.4	6.8	-195	-1	-1	13.6	3844	47	4.3	61	0.220
04-	35.4958-	109.2528-	2-	15-		0-N08751	7935	358	7789	55	-1	4.4	3.8	-190	-1		7.7	3239	37	3.3	41	0.321
04-	35.4853-	109.3528-	2-	15-		0-N08752	7211	531	8485	34	-1	6.2	8.1	-215	-1	1	15.4	6423	60	6.4	49	0.309
04-	35.4583-	109.3111-	2-	15-		0-N08753	8226	468	7769	40	-1	4.3	4.0	-191	-1	-1	7.0	3292	42	2.8	49	0.330
04-	35.4564-	109.3358-	2-	15-		0-N08754	9759	460	7000	63	-1	6.9	5.8	-193	-1	1	11.7	3768	43	5.5	63	0.274
04-	35.0308-	109.2208-	2-	15-		0-N08756	9503	286	10210	42	-1	4.7	3.9	-174	-1	-1	8.5	3358	50	2.9	35	0.273
04-	35.0633-	109.1928-	2-	15-		0-N08757	7650	316	9213	63	-1	5.4	4.2	-178	-1	-1	8.1	3697	54	2.9	65	0.283
04-	35.0656-	109.1861-	2-	15-		0-N08758	12340	343	7044	61	-1	6.2	4.5	-172	-1	-1	9.1	3721	65	3.0	58	0.252
04-	35.0781-	109.1706-	2-	15-		0-N08759	9961	294	9084	62	-1	6.1	5.0	-160	-1	-1	10.4	3025	51	3.3	45	0.220
04-	35.1019-	109.1542-	2-	15-		0-N08760	5384	636	9460	56	-1	6.4	6.0	-227	2	-1	14.1	8270	108	6.0	-26	0.326
04-	35.1289-	109.1644-	2-	15-		0-N08761	7410	415	11250	50	-1	5.5	5.6	-196	-1	-1	10.1	4894	64	3.8	93	0.278
04-	35.1286-	109.1233-	2-	15-		0-N08763	5069	278	10250	49	-1	3.5	3.6	293	-1		6.9	3283	42	3.2	74	0.322
04-	35.1642-	109.0983-	2-	15-		0-N08765	7424	599	10130	98	-1	6.7	5.6	-223	-1	-1	11.1	3356	51	3.4	67	0.222
04-	35.1781-	109.0528-	2-	15-		0-N08767	6505	406	8667	58	-1	4.5	3.8	-194	-1	-1	8.2	4497	68	3.5	-31	0.326
04-	35.1208-	109.2397-	2-	15-		0-N08770	8337	319	7654	56	-1	4.5	4.4	-169	-1	-1	9.3	4113	60	3.8	71	0.298
04-	35.0797-	109.2344-	2-	15-		0-N08772	10160	334	8234	57	-1	5.8	4.0	-177	-1	-1	8.5	3793	57	2.8	99	0.271
04-	35.0161-	109.2008-	2-	15-		0-N08773	5908	355	9429	56	-1	6.0	5.1	-171	-1	-1	10.7	4771	60	4.1	72	0.271
04-	35.0231-	109.1842-	2-	15-		0-N08774	12560	457	7402	82	-1	7.7	5.2	-224	-1	-1	10.7	4053	71	4.1	100	0.242
04-	35.0181-	109.1736-	2-	15-		0-N08775	11820	407	10030	79	-1	9.4	6.7	-187	3	-1	14.5	4747	62	5.3	106	0.207
04-	35.1044-	109.1150-	2-	15-		0-N08777	11800	389	7960	49	1	6.0	4.3	-187	-1	-1	7.9	3436	50	2.8	94	0.258
04-	35.2044-	109.4392-	2-	15-		0-N08778	11570	303	8655	68	-1	6.6	4.1	-158	-1	-1	8.3	2875	46	2.7	68	0.255
04-	35.2264-	109.4611-	2-	15-		0-N08779	15540	405	6844	66	-1	7.2	4.8	-211	-1	-1	8.9	2696	54	2.6	76	0.230
04-	35.1803-	109.4636-	2-	15-		0-N08780	11500	305	8069	56	-1	5.0	3.7	-169	-1	-1	7.8	3317	51	2.8	54	0.277
04-	35.2289-	109.4119-	2-	15-		0-N08781	8718	335	7281	43	-1	4.1	3.9	-160	-1	-1	8.1	4131	52	3.3	108	0.321

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.2586-	109.4208-	2-	15-		0-N08782-	09/10/78-	12-	28-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.28
04-	35.2619-	109.4239-	2-	15-		0-N08783-	09/10/78-	12-	28-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.82
04-	35.2644-	109.4786-	2-	15-		0-N08784-	09/10/78-	13-	28-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.21
04-	35.2903-	109.4369-	2-	15-		0-N08785-	09/10/78-	14-	28-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.17
04-	35.2886-	109.4425-	2-	15-		0-N08786-	09/10/78-	14-	28-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.43
04-	35.3056-	109.4050-	2-	15-		0-N08788-	09/10/78-	14-	28-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-3-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.17
04-	35.3281-	109.3992-	2-	15-		0-N08789-	09/10/78-	15-	28-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-3-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.14
04-	35.3297-	109.4092-	2-	15-		0-N08790-	09/10/78-	15-	28-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-3-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.12
04-	35.3600-	109.3881-	2-	15-		0-N08791-	09/10/78-	16-	28-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-1-2-3-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
04-	35.3253-	109.4472-	2-	15-		0-N08792-	09/10/78-	16-	28-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-3-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
04-	35.3136-	109.4517-	2-	15-		0-N08793-	09/10/78-	17-	29-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-1-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.59
04-	35.3086-	109.4714-	2-	15-		0-N08794-	09/10/78-	17-	27-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-1-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.18
04-	35.3725-	109.4617-	2-	15-		0-N08795-	09/10/78-	17-	28-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.35
04-	35.3731-	109.4989-	2-	15-		0-N08796-	09/10/78-	17-	28-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.53
04-	35.4403-	109.2319-	2-	15-		0-N08797-	09/10/78-	19-	26-		-	-	-	-	-	4-1-6-4-6-	-1-	-2-1-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.47
04-	35.3822-	109.4694-	2-	15-		0-N08798-	09/11/78-	10-	27-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	3.32
04-	35.3836-	109.4642-	2-	99-		0-N08799-	09/11/78-	10-	27-		-C-	-	-	-	-	7-1-6-4-6-	-2-	- -3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	1.42
04-	35.4214-	109.4944-	2-	15-		0-N08801-	09/11/78-	11-	29-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	4.62
04-	35.4011-	109.4356-	2-	15-		0-N08802-	09/11/78-	11-	28-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	3.91
04-	35.3769-	109.3931-	2-	15-		0-N08803-	09/11/78-	12-	27-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-2-1-	-6-	-	-	-	-	-	-	-	-	-	-	-	-	2.55
04-	35.4297-	109.4628-	2-	99-		0-N08804-	09/11/78-	12-	28-		-C-	-	-	-	-	23-1-6-4-6-	-1-	- -1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	4.17
04-	35.4308-	109.3994-	2-	15-		0-N08805-	09/11/78-	13-	28-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-3-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.88
04-	35.4675-	109.4178-	2-	15-		0-N08807-	09/11/78-	15-	28-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.49
04-	35.4728-	109.3831-	2-	15-		0-N08808-	09/11/78-	15-	28-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	3.03
04-	35.4575-	109.4547-	2-	15-		0-N08809-	09/11/78-	15-	28-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.54
04-	35.4744-	109.4375-	2-	15-		0-N08810-	09/11/78-	16-	28-		-C-	-	-	-	-	11-1-6-4-6-	-1-	-2-1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	3.36
04-	35.4500-	109.5097-	2-	99-		0-N08812-	09/11/78-	17-	27-		-C-	-	-	-	-	6-1-6-4-6-	-1-	- -1-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	1.57
04-	35.4394-	109.5031-	2-	15-		0-N08813-	09/11/78-	17-	27-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	4.35
04-	35.6056-	109.6653-	2-	15-		0-N08819-	09/13/78-	14-	28-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.58
04-	35.6042-	109.6744-	2-	15-		0-N08820-	09/13/78-	19-	28-		-C-	-	-	-	-	4-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.31
04-	35.6228-	109.6364-	2-	15-		0-N08821-	09/13/78-	15-	28-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	3.05
04-	35.5464-	109.6639-	2-	15-		0-N08822-	09/13/78-	15-	28-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	4.56
04-	35.5069-	109.5272-	2-	99-		0-N08824-	09/13/78-	10-	26-		-C-	-	-	-	-	6-1-6-4-6-	-1-	- -3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.61
04-	35.5308-	109.5306-	2-	15-		0-N08825-	09/13/78-	10-	26-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	1.43
04-	35.5358-	109.5236-	2-	15-		0-N08826-	09/13/78-	10-	27-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.72
04-	35.5025-	109.5889-	2-	15-		0-N08828-	09/13/78-	11-	28-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.51
04-	35.5425-	109.5967-	2-	15-		0-N08829-	09/13/78-	11-	28-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	4.08
04-	35.5447-	109.5964-	2-	15-		0-N08830-	09/13/78-	11-	28-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.24
04-	35.6047-	109.5342-	2-	15-		0-N08832-	09/13/78-	12-	28-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.11
04-	35.6231-	109.5269-	2-	15-		0-N08834-	09/13/78-	12-	28-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
04-	35.6111-	109.5833-	2-	15-		0-N08835-	09/13/78-	13-	28-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	4.17
04-	35.5914-	109.6239-	2-	15-		0-N08837-	09/13/78-	13-	29-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.17
04-	35.1906-	109.9331-	2-	15-		0-N08838-	09/13/78-	11-	25-		-C-	-	-	-	-	8-1-4-4-4-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	1.83
04-	35.2011-	109.9169-	2-	15-		0-N08839-	09/13/78-	12-	28-		-C-	-	-	-	-	6-1-4-4-4-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.25
04-	35.2217-	109.9119-	2-	15-		0-N08840-	09/13/78-	12-	28-		-C-	-	-	-	-	7-1-4-4-4-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	1.66
04-	35.2261-	109.8822-	2-	15-		0-N08842-	09/13/78-	13-	30-		-C-	-	-	-	-	2-1-4-4-4-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.22
04-	35.2267-	109.8878-	2-	15-		0-N08843-	09/13/78-	13-	30-		-C-	-	-	-	-	6-1-4-5-4-	-1-	-2-3-3-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.23
04-	35.2106-	109.8822-	2-	15-		0-N08844-	09/13/78-	14-	30-		-C-	-	-	-	-	6-1-4-4-4-	-1-	-2-3-3-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	1.75
04-	35.1594-	109.9956-	2-	15-		0-N08845-	09/13/78-	14-	30-		-C-	-	-	-	-	5-1-4-4-4-	-1-	-2-3-3-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.35
04-	35.1744-	109.9856-	2-	15-		0-N08846-	09/13/78-	14-	30-		-C-	-	-	-	-	7-1-4-4-4-	-1-	-2-3-3-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	3.46
04-	35.1875-	109.9786-	2-	15-		0-N08847-	09/13/78-	15-	30-		-C-	-	-	-	-	5-1-4-4-4-	-1-	-2-3-3-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	2.15

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
04-	35.2586-	109.4208-	2-	15-	0-	N08782	-5	6	-5	24	-20	-15	9	-10	-15	2	52
04-	35.2619-	109.4239-	2-	15-	0-	N08783	-5	-5	-5	18	-20	-15	-5	-10	-15	2	39
04-	35.2644-	109.4786-	2-	15-	0-	N08784	-5	5	-5	28	-20	-15	-5	-10	-15	-1	24
04-	35.2903-	109.4369-	2-	15-	0-	N08785	-5	-5	-5	22	-20	-15	-5	-10	-15	2	27
04-	35.2886-	109.4425-	2-	15-	0-	N08786	-5	7	-5	21	-20	-15	7	-10	-15	1	32
04-	35.3056-	109.4050-	2-	15-	0-	N08788	-5	-5	-5	34	-20	-15	13	-10	-15	1	37
04-	35.3281-	109.3992-	2-	15-	0-	N08789	-5	6	-5	19	-20	-15	8	-10	-15	1	25
04-	35.3297-	109.4092-	2-	15-	0-	N08790	-5	-5	-5	22	-20	-15	7	-10	-15	1	19
04-	35.3600-	109.3881-	2-	15-	0-	N08791	-5	-5	-5	24	-20	-15	5	-10	-15	1	22
04-	35.3253-	109.4472-	2-	15-	0-	N08792	-5	-5	-5	16	-20	-15	5	-10	-15	1	25
04-	35.3136-	109.4517-	2-	15-	0-	N08793	-5	-5	-5	32	-20	-15	12	-10	-15	1	27
04-	35.3086-	109.4714-	2-	15-	0-	N08794	-5	5	-5	17	-20	-15	5	-10	-15	1	28
04-	35.3725-	109.4617-	2-	15-	0-	N08795	-5	-5	-5	17	-20	15	8	-10	-15	1	37
04-	35.3731-	109.4989-	2-	15-	0-	N08796	-5	9	-5	22	-20	16	8	-10	-15	1	29
04-	35.4403-	109.2319-	2-	15-	0-	N08797	-5	-5	-5	22	-20	30	7	-10	-15	1	32
04-	35.3822-	109.4696-	2-	15-	0-	N08798	-5	7	-5	-10	-20	-15	7	-10	-15	-1	19
04-	35.3836-	109.4642-	2-	99-	0-	N08799	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	17
04-	35.4214-	109.4944-	2-	15-	0-	N08801	-5	-5	-5	13	-20	-15	-5	-10	-15	2	17
04-	35.4011-	109.4356-	2-	15-	0-	N08802	-5	9	-5	19	-20	-15	12	-10	-15	2	23
04-	35.3769-	109.3931-	2-	15-	0-	N08803	-5	-5	-5	23	-20	-15	8	-10	-15	1	24
04-	35.4297-	109.4628-	2-	99-	0-	N08804	-5	6	-5	17	-20	-15	14	-10	-15	3	30
04-	35.4308-	109.3994-	2-	15-	0-	N08805	-5	-5	-5	22	-20	-15	13	-10	-15	1	18
04-	35.4675-	109.4178-	2-	15-	0-	N08807	-5	-5	-5	11	-20	-15	7	-10	-15	1	16
04-	35.4728-	109.3831-	2-	15-	0-	N08808	-5	-5	-5	24	-20	-15	-5	-10	-15	1	19
04-	35.4575-	109.4547-	2-	15-	0-	N08809	-5	-5	-5	23	-20	-15	10	-10	-15	1	24
04-	35.4744-	109.4375-	2-	15-	0-	N08810	-5	-5	-5	22	-20	-15	7	-10	-15	2	19
04-	35.4500-	109.5097-	2-	99-	0-	N08812	-5	-5	-5	10	-20	-15	11	-10	-15	1	18
04-	35.4394-	109.5031-	2-	15-	0-	N08813	-5	-5	-5	20	-20	-15	7	-10	-15	1	20
04-	35.6056-	109.6653-	2-	15-	0-	N08819	-5	-5	-5	22	-20	-15	9	-10	-15	1	27
04-	35.6042-	109.6744-	2-	15-	0-	N08820	-5	-5	-5	18	-20	-15	-5	-10	-15	1	20
04-	35.6228-	109.6364-	2-	15-	0-	N08821	-5	7	-5	10	-20	-15	11	-10	-15	1	22
04-	35.5464-	109.6639-	2-	15-	0-	N08822	-5	6	-5	26	-20	-15	9	-10	-15	1	18
04-	35.5069-	109.5272-	2-	99-	0-	N08824	-5	-5	-5	16	-20	-15	8	-10	-15	1	15
04-	35.5308-	109.5306-	2-	15-	0-	N08825	-5	-5	-5	14	-20	-15	5	-10	-15	1	22
04-	35.5358-	109.5236-	2-	15-	0-	N08826	-5	-5	-5	21	-20	-15	-5	-10	-15	1	16
04-	35.5025-	109.5889-	2-	15-	0-	N08828	-5	-5	-5	21	-20	-15	8	-10	-15	2	26
04-	35.5425-	109.5967-	2-	15-	0-	N08829	-5	-5	-5	21	-20	-15	10	-10	-15	2	24
04-	35.5447-	109.5964-	2-	15-	0-	N08830	-5	-5	-5	22	-20	-15	11	-10	-15	1	29
04-	35.6047-	109.5342-	2-	15-	0-	N08832	-5	-5	-5	16	-20	-15	8	-10	-15	1	26
04-	35.6231-	109.5269-	2-	15-	0-	N08834	-5	-5	-5	21	-20	23	9	-10	-15	1	29
04-	35.6111-	109.5833-	2-	15-	0-	N08835	-5	7	-5	10	-20	20	10	-10	-15	1	18
04-	35.5914-	109.6239-	2-	15-	0-	N08837	-5	5	-5	24	-20	-15	-5	-10	-15	1	23
04-	35.1906-	109.9331-	2-	15-	0-	N08838	-5	6	-5	24	-20	-15	-5	-10	-15	1	24
04-	35.2011-	109.9169-	2-	15-	0-	N08839	-5	-5	-5	44	-20	-15	-5	-10	-15	1	26
04-	35.2217-	109.9119-	2-	15-	0-	N08840	-5	-5	-5	24	-20	-15	-5	-10	-15	1	26
04-	35.2261-	109.8822-	2-	15-	0-	N08842	-5	-5	-5	12	-20	-15	9	-10	-15	1	21
04-	35.2267-	109.8878-	2-	15-	0-	N08843	-5	5	-5	23	-20	-15	-5	-10	-15	1	27
04-	35.2106-	109.8822-	2-	15-	0-	N08844	-5	-5	-5	28	-20	19	-5	-10	-15	1	29
04-	35.1594-	109.9956-	2-	15-	0-	N08845	-5	-5	-5	20	-20	-15	-5	-10	-15	1	21
04-	35.1744-	109.9856-	2-	15-	0-	N08846	-5	-5	-5	13	-20	-15	5	-10	-15	-1	14
04-	35.1875-	109.9786-	2-	15-	0-	N08847	-5	7	-5	40	-20	18	-5	-10	16	1	23

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
04-	35.2586-	109.4208-	2-	15-	0-	N08782	48320	-0.06	596	19820	68	-66	7.4	49	32.3	5	1.3	24400	15.3	18910	33	0.4
04-	35.2619-	109.4239-	2-	15-	0-	N08783	37890	-0.04	654	27050	59	-54	5.7	43	21.5	4	1.3	20140	23.6	17110	28	0.5
04-	35.2644-	109.4786-	2-	15-	0-	N08784	44230	-0.03	609	17710	43	-53	4.3	31	5.1	3	1.1	15330	14.7	16380	21	0.3
04-	35.2903-	109.4369-	2-	15-	0-	N08785	43970	-0.04	584	7898	53	-66	4.4	34	3.4	4	1.1	14490	13.7	19950	23	0.4
04-	35.2886-	109.4425-	2-	15-	0-	N08786	45540	-0.05	510	8628	59	-65	7.5	51	3.7	4	1.3	22010	21.4	16120	29	0.4
04-	35.3056-	109.4050-	2-	15-	0-	N08788	47780	-0.04	623	5626	63	-66	6.6	38	5.2	4	1.3	18010	11.0	18800	29	0.4
04-	35.3281-	109.3992-	2-	15-	0-	N08789	41950	-0.03	555	5211	44	-55	4.9	29	2.7	4	1.1	14350	13.3	16810	21	0.3
04-	35.3297-	109.4092-	2-	15-	0-	N08790	40110	-0.04	511	4337	47	-64	3.9	28	2.2	4	1.0	12260	12.9	17210	23	0.3
04-	35.3600-	109.3881-	2-	15-	0-	N08791	38010	-0.05	518	13420	73	-63	8.6	73	3.2	4	1.6	36870	39.7	15580	37	0.7
04-	35.3253-	109.4472-	2-	15-	0-	N08792	45860	-0.04	555	7087	53	-62	4.7	50	2.3	4	1.3	17320	17.0	17970	27	0.5
04-	35.3136-	109.4517-	2-	15-	0-	N08793	46210	-0.04	630	7337	59	-68	5.6	41	2.8	4	1.3	17860	15.2	18480	29	0.5
04-	35.3086-	109.4714-	2-	15-	0-	N08794	50740	-0.04	629	8562	55	-66	4.8	34	3.2	3	1.0	15770	11.0	19700	21	0.3
04-	35.3725-	109.4617-	2-	15-	0-	N08795	38130	-0.05	654	42890	58	-64	9.4	45	11.1	4	1.5	28800	16.6	15620	34	0.4
04-	35.3731-	109.4989-	2-	15-	0-	N08796	37460	-0.04	839	20960	45	-54	6.2	38	8.2	3	0.7	23790	17.9	16780	23	0.4
04-	35.4403-	109.2319-	2-	15-	0-	N08797	44890	-0.04	730	29580	50	-57	6.7	41	9.2	4	1.2	22240	13.3	17810	27	0.3
04-	35.3822-	109.4694-	2-	15-	0-	N08798	32560	-0.04	577	14570	61	-58	4.8	41	3.3	4	1.0	23270	33.5	15340	25	0.6
04-	35.3836-	109.4642-	2-	99-	0-	N08799	21290	-0.04	457	126000	34	-57	3.3	19	5.0	2	0.9	11140	11.2	11270	20	0.3
04-	35.4214-	109.4944-	2-	15-	0-	N08801	43290	-0.05	748	12150	91	-45	9.5	64	4.5	7	2.0	34630	44.5	13910	43	0.9
04-	35.4011-	109.4356-	2-	15-	0-	N08802	39980	-0.05	558	14350	74	-54	8.2	69	4.3	5	1.0	36640	46.3	15720	35	0.7
04-	35.3769-	109.3931-	2-	15-	0-	N08803	39320	-0.04	523	11340	56	-59	3.9	37	2.9	4	1.0	15270	19.1	16310	21	0.4
04-	35.4297-	109.4628-	2-	99-	0-	N08804	71150	-0.07	638	7015	140	-38	15.2	53	7.1	8	2.7	40370	22.0	16130	66	0.9
04-	35.4308-	109.3994-	2-	15-	0-	N08805	37500	-0.03	444	4655	53	-53	4.2	49	2.4	4	1.1	14780	23.0	18210	24	0.5
04-	35.4675-	109.4178-	2-	15-	0-	N08807	38660	-0.03	493	4869	47	-52	4.0	35	2.0	4	0.9	13080	16.2	14300	21	0.4
04-	35.4728-	109.3831-	2-	15-	0-	N08808	41460	-0.04	502	5578	69	-65	5.1	45	2.3	5	1.2	17530	24.4	18070	27	0.5
04-	35.4575-	109.4547-	2-	15-	0-	N08809	42790	-0.05	494	5466	63	-63	6.6	44	3.1	4	1.3	20050	21.9	16730	27	0.5
04-	35.4744-	109.4375-	2-	15-	0-	N08810	48080	-0.04	673	11110	78	-41	9.5	44	4.9	6	1.7	23170	23.5	14790	34	0.6
04-	35.4500-	109.5097-	2-	99-	0-	N08812	38310	-0.03	703	9276	38	-54	3.6	18	1.8	3	0.6	11540	8.6	17260	17	0.2
04-	35.4394-	109.5031-	2-	15-	0-	N08813	38580	-0.05	618	11280	92	-60	6.1	59	2.0	6	1.6	27920	46.4	15840	38	0.8
04-	35.6056-	109.6653-	2-	15-	0-	N08819	39380	-0.04	719	36830	59	-63	5.6	43	2.1	4	1.5	22170	25.7	14510	30	0.4
04-	35.6042-	109.6744-	2-	15-	0-	N08820	41870	-0.03	706	28270	50	-62	4.6	39	2.5	4	0.8	15160	16.5	17380	25	0.4
04-	35.6228-	109.6364-	2-	15-	0-	N08821	34790	-0.03	867	31470	57	90	4.9	46	1.7	4	0.8	21820	27.1	16880	29	0.4
04-	35.5464-	109.6639-	2-	15-	0-	N08822	43950	-0.05	533	7294	90	-70	5.8	52	1.8	6	1.6	26300	37.5	14080	38	0.7
04-	35.5069-	109.5272-	2-	99-	0-	N08824	37030	-0.04	540	9193	65	-60	5.7	47	3.1	4	1.2	21770	27.1	15420	34	0.5
04-	35.5308-	109.5306-	2-	15-	0-	N08825	42680	-0.03	673	7080	37	-55	2.5	19	-0.7	2	0.5	10150	7.1	19080	21	0.3
04-	35.5358-	109.5236-	2-	15-	0-	N08826	36440	-0.03	565	5807	60	-53	4.5	33	1.7	4	1.2	18380	23.9	14540	28	0.4
04-	35.5025-	109.5889-	2-	15-	0-	N08828	51330	-0.04	553	13200	66	-67	5.3	39	3.0	4	1.2	19220	15.4	17660	28	0.4
04-	35.5425-	109.5967-	2-	15-	0-	N08829	44120	-0.05	544	15030	104	-71	9.1	77	2.8	6	2.1	41840	48.6	16160	48	0.8
04-	35.5447-	109.5964-	2-	15-	0-	N08830	46590	-0.03	649	16960	63	-61	4.7	34	2.3	3	1.2	16770	14.4	18490	26	0.4
04-	35.6047-	109.5342-	2-	15-	0-	N08832	44980	-0.03	565	17470	55	-56	3.9	31	2.4	4	1.1	15830	13.7	19340	24	0.3
04-	35.6231-	109.5269-	2-	15-	0-	N08834	43660	-0.04	685	16000	63	-68	6.3	45	2.3	5	1.2	24240	20.9	15870	30	0.4
04-	35.6111-	109.5833-	2-	15-	0-	N08835	36720	-0.05	479	12450	102	-67	8.8	79	2.4	5	2.0	47830	55.6	16510	47	0.7
04-	35.5914-	109.6239-	2-	15-	0-	N08837	45720	-0.03	529	25740	66	-61	4.9	37	3.0	4	1.3	18590	15.0	18760	27	0.4
04-	35.1906-	109.9331-	2-	15-	0-	N08838	39040	-0.03	1011	46070	58	-64	4.4	29	1.7	4	0.9	12140	7.5	12520	25	0.2
04-	35.2011-	109.9169-	2-	15-	0-	N08839	48980	-0.04	1410	65680	75	-92	6.9	46	2.5	4	1.7	20100	11.1	11760	32	0.3
04-	35.2217-	109.9119-	2-	15-	0-	N08840	44350	-0.05	708	97130	82	-88	9.0	51	3.6	4	1.7	22640	8.5	10510	39	0.4
04-	35.2261-	109.8822-	2-	15-	0-	N08842	39530	-0.03	906	33940	66	-67	4.2	28	2.0	3	0.9	14230	12.7	14810	28	0.3
04-	35.2267-	109.8878-	2-	15-	0-	N08843	36600	-0.04	1546	75960	67	4553	7.3	46	2.9	4	1.0	25530	13.7	11580	30	0.4
04-	35.2106-	109.8822-	2-	15-	0-	N08844	48710	-0.04	500	75230	60	-87	6.5	38	2.6	4	1.1	16870	4.2	15250	24	0.3
04-	35.1594-	109.9956-	2-	15-	0-	N08845	40840	-0.04	1186	49940	79	-80	5.7	42	2.7	5	1.9	20570	16.7	13760	39	0.4
04-	35.1744-	109.9856-	2-	15-	0-	N08846	29510	-0.04	3557	49530	80	-75	5.6	53	2.1	5	2.6	22600	27.3	6741	39	0.6
04-	35.1875-	109.9786-	2-	15-	0-	N08847	59580	-0.04	624	63470	59	-81	8.3	41	3.5	4	1.3	23500	5.4	13950	25	0.3

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	
04-	35.2586-	109.4208-2-	15-		0-	N08782	11240	401	7711	117	-1	7.2	5.4	-183	-1	-1	10.6	3474	49	2.9	83	0.215
04-	35.2619-	109.4239-2-	15-		0-	N08783	10060	327	6966	62		4.9	4.6	-173	-1	1	9.7	4190	60	4.3	59	0.291
04-	35.2644-	109.4786-2-	15-		0-	N08784	8818	281	8420	54	-1	4.5	3.8	-164	-1	-1	7.3	3675	50	3.1	-41	0.303
04-	35.2903-	109.4369-2-	15-		0-	N08785	7746	327	8492	57	-1	4.4	3.9	-172	-1	-1	7.2	3458	43	2.9	72	0.301
04-	35.2886-	109.4425-2-	15-		0-	N08786	10860	342	8644	79	-1	6.2	4.8	310	-1	-1	9.0	3328	48	3.6	58	0.270
04-	35.3056-	109.4050-2-	15-		0-	N08788	10130	485	8752	60	-1	5.9	4.1	-228	-1	-1	7.5	3014	42	3.4	71	0.289
04-	35.3281-	109.3992-2-	15-		0-	N08789	7575	336	9924	58	-1	4.1	4.0	-174	-1	-1	6.8	3265	38	2.4	64	0.315
04-	35.3297-	109.4092-2-	15-		0-	N08790	7948	290	9123	53	-1	3.6	3.8	314	-1	-1	6.7	3637	34	2.9	-46	0.316
04-	35.3600-	109.3881-2-	15-		0-	N08791	8311	435	7831	66	-1	6.4	5.6	-176	-1	-1	12.5	5825	81	5.2	80	0.253
04-	35.3253-	109.4472-2-	15-		0-	N08792	10730	336	9820	62	-1	5.0	4.0	-191	-1	-1	8.8	3273	44	3.1	-48	0.273
04-	35.3136-	109.4517-2-	15-		0-	N08793	9240	529	10280	55	-1	5.4	5.2	-223	-1	-1	9.2	4298	45	3.9	70	0.282
04-	35.3086-	109.4714-2-	15-		0-	N08794	12220	329	9469	65	-1	5.1	4.3	365	-1	-1	7.6	3334	53	2.7	81	0.287
04-	35.3725-	109.4617-2-	15-		0-	N08795	11870	342	6881	71	-1	5.9	4.2	-163	2	-1	7.5	4314	67	2.4	54	0.313
04-	35.3731-	109.4989-2-	15-		0-	N08796	8311	354	7176	57	-1	4.5	3.6	-182	-1		6.9	4226	76	2.9	50	0.367
04-	35.4403-	109.2319-2-	15-		0-	N08797	12920	389	7929	64	-1	5.5	5.0	336	-1	-1	7.7	4789	68	2.9	62	0.321
04-	35.3822-	109.4694-2-	15-		0-	N08798	7909	420	6096	35	-1	4.4	4.7	-172	-1	-1	10.3	5095	76	4.2	58	0.322
04-	35.3836-	109.4642-2-	99-		0-	N08799	4979	154	4288	67	-1	2.7	2.3	-123	-1		4.3	1659	28	2.5	38	0.330
04-	35.4214-	109.4944-2-	15-		0-	N08801	10060	448	3492	38	-1	7.5	6.9	-192	-1	1	13.7	5955	97	6.9	75	0.337
04-	35.4011-	109.4356-2-	15-		0-	N08802	7931	571	5937	50	-1	6.8	5.7	-208	-1	-1	10.8	6318	101	4.9	68	0.362
04-	35.3769-	109.3931-2-	15-		0-	N08803	8339	280	8054	39	-1	3.9	3.8	288	-1	-1	7.6	3896	46	3.7	-34	0.336
04-	35.4297-	109.4628-2-	99-		0-	N08804	12330	232	2745	63	-1	11.9	11.7	-136	-1	-1	19.8	4346	77	6.9	60	0.211
04-	35.4308-	109.3994-2-	15-		0-	N08805	6541	290	7850	46	-1	4.3	3.8	-171	-1	-1	8.5	3736	42	3.3	37	0.339
04-	35.4675-	109.4178-2-	15-		0-	N08807	5424	311	8052	45	-1	4.1	3.9	-162	1		7.1	3792	40	3.2	52	0.351
04-	35.4728-	109.3831-2-	15-		0-	N08808	9077	382	8317	60	-1	4.8	4.9	-176	-1	-1	10.2	4673	48	4.5	68	0.297
04-	35.4575-	109.4547-2-	15-		0-	N08809	7434	351	8131	48	-1	5.0	5.0	-171	-1	-1	10.0	3216	41	3.5	57	0.254
04-	35.4744-	109.4375-2-	15-		0-	N08810	11880	277	3403	44	-1	7.7	6.0	-160	-1	-1	10.4	3964	66	4.6	74	0.323
04-	35.4500-	109.5097-2-	99-		0-	N08812	7327	222	8543	55	-1	2.9	2.6	-156	-1		5.1	2373	31	1.8	60	0.308
04-	35.4394-	109.5031-2-	15-		0-	N08813	6823	452	6996	41	-1	5.3	6.3	-182	-1	-1	15.0	6237	78	5.5	46	0.290
04-	35.6056-	109.6653-2-	1		0-	N08819	10790	310	8155	58	-1	5.2	4.7	-157	2	-1	10.1	3160	56	3.6	65	0.255
04-	35.6042-	109.6744-2-	1		0-	N08820	9603	331	9151	52	-1	4.5	3.6	-190	-1	-1	7.8	3132	40	3.3	52	0.296
04-	35.6228-	109.6364-2-	1	-	0-	N08821	11580	438	7829	34	-1	4.4	5.2	-188	1		9.7	4602	58	3.8	43	0.314
04-	35.5464-	109.6639-2-	1	-	0-	N08822	9167	509	9464	-18	-1	5.5	5.6	-194	-1	-1	13.3	6807	85	4.9	83	0.343
04-	35.5069-	109.5272-2-	99-		0-	N08824	6657	311	8163	73	-1	4.9	4.9	-157	-1	-1	12.3	3361	51	4.4	71	0.212
04-	35.5308-	109.5306-2-	15-		0-	N08825	6032	144	10030	48	-1	3.2	2.7	-145	-1		5.5	2005	27	1.9	-23	0.260
04-	35.5358-	109.5236-2-	15-		0-	N08826	6809	319	8416	44	-1	4.0	4.7	-164	-1		8.8	4026	53	3.8	46	0.309
04-	35.5025-	109.5889-2-	15-		0-	N08828	12820	357	9479	57	-1	5.8	5.1	-173	-1	-1	9.4	3747	53	3.4	98	0.267
04-	35.5425-	109.5967-2-	15-		0-	N08829	9307	454	9571	78	-1	7.4	7.8	-190	-1	-1	18.2	4916	93	6.2	105	0.224
04-	35.5447-	109.5964-2-	15-		0-	N08830	10650	248	10280	53	-1	4.8	4.3	336	-1	-1	9.0	2747	43	3.3	-19	0.249
04-	35.6047-	109.5342-2-	15-		0-	N08832	9804	287	8948	45	-1	4.5	4.1	-166	-1	-1	8.2	3488	44	3.6	56	0.257
04-	35.6231-	109.5269-2-	15-		0-	N08834	11220	436	8853	41	-1	5.0	5.0	-188	-1	-1	10.1	4620	67	3.9	55	0.297
04-	35.6111-	109.5833-2-	15-		0-	N08835	8729	537	8199	57	-1	6.5	6.9	-194	3	-1	17.1	5934	102	5.6	83	0.244
04-	35.5914-	109.6239-2-	1		0-	N08837	12610	311	9195	58	-1	5.1	4.2	-184	-1	-1	9.1	3040	49	3.1	59	0.238
04-	35.1906-	109.9331-2-	15-		0-	N08838	12260	478	9774	47	-1	4.4	4.8	475	-1	-1	5.8	2566	49	2.4	54	0.316
04-	35.2011-	109.9169-2-	15-		0-	N08839	23030	902	10470	46	-1	6.7	5.1	-273	-1	-1	7.7	3720	72	3.2	82	0.292
04-	35.2217-	109.9119-2-	15-		0-	N08840	25340	840	8795	55	-1	8.8	6.4	445	-1	-1	9.3	2868	60	3.4	76	0.178
04-	35.2261-	109.8822-2-	15-		0-	N08842	10050	397	10550	39	-1	4.0	4.5	-207	-1	-1	6.9	2395	51	2.8	41	0.322
04-	35.2267-	109.8878-2-	15-		0-	N08843	23730	581	9865	59	-1	7.1	5.9	357	-1	-1	8.0	3931	90	3.4	65	0.279
04-	35.2106-	109.8822-2-	15-		0-	N08844	28290	855	8693	-17	-1	6.7	4.5	681	-1	-1	6.9	2460	49	2.7	44	0.254
04-	35.1594-	109.9956-2-	15-		0-	N08845	13190	564	9861	-19	-1	6.0	6.1	-210	-1	-1	9.7	2949	59	3.6	66	0.242
04-	35.1744-	109.9856-2-	15-		0-	N08846	7965	949	7553	38	-1	5.1	5.8	-279	-1	-1	10.5	3421	70	4.8	49	0.330
04-	35.1875-	109.9786-2-	15-		0-	N08847	28810	770	9604	45	-1	8.2	5.5	812	-1	-1	7.6	3752	62	2.6	44	0.283

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.2089-	109.9817-	2-	15-		0-N08948-	09/13/78-	15-	30-		-C-	-	-	-	-	5-1-	4-4-	4-		-1-		-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.00
04-	35.2019-	109.9653-	2-	15-		0-N08949-	09/13/78-	15-	30-		-C-	-	-	-	-	5-1-	4-4-	4-		-1-		-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.59
04-	35.2033-	109.9664-	2-	15-		0-N08950-	09/13/78-	15-	30-		-C-	-	-	-	-	11-	1-	4-	4-	-1-		-2-	3-	3-	3-	1-	-9-	-	-	-	-	1.92
04-	35.2019-	109.9675-	2-	15-		0-N08951-	09/13/78-	15-	30-		-C-	-	-	-	-	11-	1-	4-	4-	-1-		-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.13
04-	35.1853-	109.9939-	2-	15-		0-N08852-	09/13/78-	16-	30-		-C-	-	-	-	-	9-	1-	4-	4-	-1-		-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.28
04-	35.4822-	109.6192-	2-	15-		0-N08854-	09/14/78-	15-	30-		-C-	-	-	-	-	6-	1-	4-	4-	-1-		-2-	3-	4-	3-	2-	-9-	-	-	-	-	2.29
04-	35.4578-	109.5367-	2-	15-		0-N08855-	09/14/78-	16-	30-		-C-	-	-	-	-	7-	1-	6-	4-	6-		-1-		-2-	1-	3-	3-	2-	-9-	-	-	-	-	2.50
04-	35.4536-	109.5572-	2-	15-		0-N08856-	09/14/78-	16-	30-		-C-	-	-	-	-	9-	1-	6-	4-	6-		-1-		-2-	1-	3-	3-	2-	-9-	-	-	-	-	1.67
04-	35.4378-	109.6131-	2-	15-		0-N08857-	09/14/78-	17-	30-		-C-	-	-	-	-	7-	1-	6-	4-	6-		-1-		-2-	3-	3-	3-	2-	-9-	-	-	-	-	2.18
04-	35.4064-	109.6167-	2-	15-		0-N08859-	09/14/78-	17-	30-		-C-	-	-	-	-	8-	1-	6-	4-	6-		-1-		-2-	3-	3-	3-	2-	-9-	-	-	-	-	2.15
04-	35.3469-	109.5886-	2-	15-		0-N08861-	09/14/78-	18-	30-		-C-	-	-	-	-	7-	1-	6-	4-	6-		-1-		-2-	3-	3-	3-	2-	-9-	-	-	-	-	2.18
04-	35.3339-	109.5961-	2-	15-		0-N08862-	09/15/78-	13-	28-		-C-	-	-	-	-	8-	1-	4-	4-	4-		-1-		-2-	1-	3-	3-	2-	-9-	-	-	-	-	2.74
04-	35.3261-	109.5736-	2-	15-		0-N08863-	09/15/78-	14-	29-		-C-	-	-	-	-	7-	1-	6-	4-	6-		-1-		-2-	3-	3-	3-	2-	-9-	-	-	-	-	2.61
04-	35.3161-	109.5886-	2-	15-		0-N08864-	09/15/78-	14-	29-		-C-	-	-	-	-	8-	1-	6-	4-	6-		-1-		-2-	3-	3-	3-	2-	-9-	-	-	-	-	2.62
04-	35.3267-	109.5383-	2-	15-		0-N08865-	09/15/78-	15-	30-		-C-	-	-	-	-	6-	1-	6-	4-	6-		-1-		-2-	3-	3-	3-	2-	-9-	-	-	-	-	2.25
04-	35.3492-	109.5311-	2-	15-		0-N08866-	09/15/78-	15-	30-		-C-	-	-	-	-	5-	1-	6-	4-	6-		-1-		-2-	3-	3-	3-	2-	-9-	-	-	-	-	3.12
04-	35.5972-	109.7392-	2-	15-		0-N08869-	09/13/78-	16-	28-		-C-	-	-	-	-	19-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.08
04-	35.5997-	109.7219-	2-	15-		0-N08870-	09/13/78-	16-	28-		-C-	-	-	-	-	12-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.51
04-	35.5356-	109.7064-	2-	15-		0-N08872-	09/13/78-	17-	26-		-C-	-	-	-	-	7-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.49
04-	35.5017-	109.7250-	2-	15-		0-N08874-	09/13/78-	17-	26-		-C-	-	-	-	-	19-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.26
04-	35.5094-	109.6514-	2-	15-		0-N08875-	09/13/78-	18-	26-		-C-	-	-	-	-	3-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.32
04-	35.5183-	109.6347-	2-	15-		0-N08876-	09/13/78-	18-	26-		-C-	-	-	-	-	6-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	4.26
04-	35.5144-	109.4419-	2-	15-		0-N08877-	09/14/78-	10-	26-		-	-	-	-	-	11-	1-	6-	4-	6-		-1-		-1-	3-	2-	3-	1-	-3-	-	-	-	-	2.51
04-	35.5336-	109.4392-	2-	15-		0-N08878-	09/14/78-	10-	26-		-C-	-	-	-	-	12-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	3.19
04-	35.5006-	109.4211-	2-	15-		0-N08879-	09/14/78-	11-	27-		-	-	-	-	-	6-	1-	6-	4-	6-		-1-		-2-	1-	2-	3-	1-	-1-	-	-	-	-	2.25
04-	35.5144-	109.3742-	2-	15-		0-N08880-	09/14/78-	11-	27-		-C-	-	-	-	-	9-	1-	6-	4-	6-		-1-		-2-	1-	2-	3-	1-	-9-	-	-	-	-	2.39
04-	35.5872-	109.3328-	2-	15-		0-N08882-	09/14/78-	12-	27-		-	-	-	-	-	4-	1-	6-	4-	6-		-1-		-2-	1-	2-	3-	1-	-1-	-	-	-	-	2.24
04-	35.6069-	109.3253-	2-	15-		0-N08883-	09/14/78-	13-	28-		-C-	-	-	-	-	0-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.21
04-	35.5853-	109.3542-	2-	15-		0-N08884-	09/14/78-	13-	28-		-C-	-	-	-	-	9-	1-	6-	4-	6-		-1-		-2-	1-	2-	3-	1-	-9-	-	-	-	-	2.72
04-	35.6064-	109.4197-	2-	15-		0-N08887-	09/14/78-	15-	27-		-C-	-	-	-	-	3-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.39
04-	35.6072-	109.3944-	2-	15-		0-N08889-	09/14/78-	16-	27-		-	-	-	-	-	9-	1-	6-	4-	6-		-1-		-2-	1-	2-	3-	1-	-1-	-	-	-	-	4.31
04-	35.6081-	109.4475-	2-	15-		0-N08890-	09/14/78-	16-	27-		-C-	-	-	-	-	6-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.15
04-	35.5542-	109.4942-	2-	15-		0-N08893-	09/14/78-	18-	25-		-C-	-	-	-	-	4-	1-	6-	4-	6-		-1-		-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.04
04-	35.5483-	109.4800-	2-	15-		0-N08894-	09/14/78-	18-	25-		-C-	-	-	-	-	7-	1-	6-	4-	6-		-1-		-2-	2-	3-	2-	1-	-9-	-	-	-	-	2.35
04-	35.5369-	109.4931-	2-	15-		0-N08895-	09/14/78-	18-	25-		-C-	-	-	-	-	9-	1-	6-	4-	6-		-1-		-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.31
04-	35.5553-	109.4056-	2-	15-		0-N08896-	09/14/78-	19-	25-		-C-	-	-	-	-	11-	1-	6-	4-	6-		-1-		-2-	1-	2-	3-	1-	-9-	-	-	-	-	2.72
04-	35.5506-	109.2572-	2-	15-		0-N08898-	09/15/78-	10-	25-		-C-	-	-	-	-	6-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.46
04-	35.5258-	109.2533-	2-	15-		0-N08899-	09/15/78-	10-	26-		-C-	-	-	-	-	9-	1-	6-	4-	6-		-1-		-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.21
04-	35.5267-	109.2522-	2-	15-		0-N08900-	09/15/78-	11-	27-		-C-	-	-	-	-	6-	1-	6-	4-	6-		-1-		-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.49
04-	35.5236-	109.2322-	2-	15-		0-N08902-	09/15/78-	11-	26-		-C-	-	-	-	-	3-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	6.67
04-	35.5386-	109.1967-	2-	15-		0-N08903-	09/15/78-	12-	26-		-C-	-	-	-	-	15-	1-	6-	4-	6-		-1-		-1-	2-	3-	2-	1-	-9-	-	-	-	-	1.79
04-	35.5064-	109.2111-	2-	15-		0-N08905-	09/15/78-	13-	26-		-C-	-	-	-	-	6-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.54
04-	35.5031-	109.1944-	2-	15-		0-N08906-	09/15/78-	13-	27-		-C-	-	-	-	-	3-	1-	6-	4-	6-		-1-		-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.50
04-	35.5500-	109.2242-	2-	15-		0-N08909-	09/15/78-	15-	28-		-C-	-	-	-	-	9-	1-	6-	4-	6-		-1-		-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.51
04-	35.5656-	109.2203-	2-	15-		0-N08910-	09/15/78-	15-	28-		-	-	-	-	-	9-	1-	6-	4-	6-		-1-		-2-	1-	2-	3-	1-	-1-	-	-	-	-	2.40
04-	35.6047-	109.1261-	2-	15-		0-N08912-	09/15/78-	17-	26-		-	-	-	-	-	9-	1-	6-	4-	6-		-1-		-2-	1-	2-	3-	1-	-1-	-	-	-	-	2.85
04-	35.6239-	109.1453-	2-	15-		0-N08913-	09/15/78-	15-	26-		-	-	-	-	-	9-	1-	6-	4-	6-		-1-		-2-	1-	2-	3-	1-	-1-	-	-	-	-	2.55
04-	35.6214-	109.2869-	2-	15-		0-N08915-	09/15/78-	17-	27-		-C-	-	-	-	-	7-	1-	6-	4-	6-		-1-		-2-	2-	3-	3-	1-	-9-	-	-	-	-	3.00
04-	35.7278-	109.5061-	2-	15-		0-N08916-	09/17/78-	10-	25-		-C-	-	-	-	-	7-	1-	6-	4-	6-		-1-		-2-	3-	2-	3-	1-	-9-	-	-	-	-	1.93
04-	35.7256-	109.5825-	2-	15-		0-N08919-	09/17/78-	11-	26-		-C-	-	-	-	-	7-	1-	6-	4-	6-		-1-		-2-	3-	2-	2-	1-	-9-	-	-	-	-	1.91
04-	35.7006-	109.5944-	2-	15-		0-N08921-	09/17/78-	11-	26-		-C-	-	-	-	-	7-	1-	6-	4-	6-		-1-		-2-	3-	2-	2-	1-	-9-	-	-	-	-	1.84

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
04-35.2089-109.9817-2-15-						0-N08848	-5	-5	-5	32	-20	23	-5	-10	-15	1	23
04-35.2019-109.9653-2-15-						0-N08849	-5	-5	-5	39	-20	-15	-5	-10	-15	1	22
04-35.2033-109.9664-2-15-						0-N08850	-5	7	-5	42	-20	-15	5	-10	-15	1	23
04-35.2019-109.9675-2-15-						0-N08851	-5	-5	-5	32	-20	-15	-5	-10	-15	1	24
04-35.1853-109.9939-2-15-						0-N08852	-5	-5	-5	28	-20	-15	5	-10	-15	1	17
04-35.4822-109.6192-2-15-						0-N08854	-5	5	-5	26	-20	17	8	-10	-15	1	27
04-35.4578-109.5367-2-15-						0-N08855	-5	6	-5	11	-20	-15	6	-10	-15	1	28
04-35.4536-109.5572-2-15-						0-N08856	-5	-5	-5	23	-20	-15	6	-10	-15	-1	33
04-35.4378-109.6131-2-15-						0-N08857	-5	5	-5	24	-20	-15	7	-10	-15	1	36
04-35.4064-109.6167-2-15-						0-N08859	-5	9	-5	30	-20	-15	12	-10	-15	2	50
04-35.3469-109.5886-2-15-						0-N08861	-5	5	-5	19	-20	21	8	-10	-15	1	43
04-35.3339-109.5961-2-15-						0-N08862	-5	5	-5	35	-20	27	13	-10	19	2	95
04-35.3261-109.5736-2-15-						0-N08863	-5	-5	-5	19	-20	-15	6	-10	-15	1	79
04-35.3161-109.5886-2-15-						0-N08864	-5	-5	-5	28	-20	-15	6	-10	-15	2	63
04-35.3267-109.5383-2-15-						0-N08865	-5	-5	-5	15	-20	-15	6	-10	-15	1	28
04-35.3492-109.5311-2-15-						0-N08866	-5	5	-5	11	-20	17	11	-10	-15	1	33
04-35.5972-109.7392-2-15-						0-N08868	-5	-5	-5	21	-20	-15	7	-10	-15	1	28
04-35.5997-109.7219-2-15-						0-N08870	-5	-5	-5	10	-20	-15	-5	-10	-15	1	19
04-35.5356-109.7064-2-15-						0-N08872	-5	-5	-5	18	-20	-15	12	-10	-15	1	21
04-35.5017-109.7250-2-15-						0-N08874	-5	5	-5	15	-20	-15	9	-10	-15	-1	15
04-35.5094-109.6514-2-15-						0-N08875	-5	-5	-5	29	-20	-15	11	-10	-15	1	27
04-35.5183-109.6347-2-15-						0-N08876	-5	6	-5	16	-20	-15	7	-10	-15	1	20
04-35.5144-109.4419-2-15-						0-N08877	-5	9	-5	28	-20	-15	6	-10	-15	-1	14
04-35.5336-109.4392-2-15-						0-N08878	-5	-5	-5	24	-20	-15	6	-10	-15	1	16
04-35.5006-109.4211-2-15-						0-N08879	-5	-5	-5	26	-20	-15	5	-10	-15	1	17
04-35.5144-109.3742-2-15-						0-N08880	-5	-5	-5	28	-20	-15	-5	-10	-15	1	19
04-35.5872-109.3328-2-15-						0-N08882	-5	-5	-5	25	-20	-15	6	-10	-15	-1	16
04-35.6069-109.3253-2-15-						0-N08883	-5	-5	-5	21	-20	-15	9	-10	-15	1	15
04-35.5853-109.3542-2-15-						0-N08884	-5	7	-5	19	-20	-15	-5	-10	-15	-1	13
04-35.6064-109.4197-2-15-						0-N08887	-5	7	-5	22	-20	-15	6	-10	-15	1	24
04-35.6072-109.3944-2-15-						0-N08889	-5	7	-5	21	-20	21	8	-10	-15	1	23
04-35.6081-109.4475-2-15-						0-N08890	-5	-5	-5	15	-20	-15	7	-10	-15	1	16
04-35.5542-109.4942-2-15-						0-N08893	-5	6	-5	16	-20	-15	7	-10	-15	1	14
04-35.5483-109.4800-2-15-						0-N08894	-5	-5	-5	11	-20	-15	11	-10	-15	1	17
04-35.5369-109.4931-2-15-						0-N08895	-5	-5	-5	22	-20	-15	12	-10	-15	1	22
04-35.5553-109.4056-2-15-						0-N08896	-5	-5	-5	25	-20	-15	7	-10	-15	1	16
04-35.5506-109.2572-2-15-						0-N08898	-5	-5	-5	18	-20	-15	9	-10	-15	-1	11
04-35.5258-109.2533-2-15-						0-N08899	-5	7	-5	28	-20	-15	-5	-10	-15	-1	14
04-35.5267-109.2522-2-15-						0-N08900	-5	-5	-5	17	-20	-15	-5	-10	-15	-1	10
04-35.5236-109.2322-2-15-						0-N08902	-5	7	-5	21	-20	18	13	-10	-15	-1	17
04-35.5386-109.1967-2-15-						0-N08903	-5	-5	-5	33	-20	-15	5	-10	-15	1	25
04-35.5064-109.2111-2-15-						0-N08905	-5	-5	-5	15	-20	-15	-5	-10	-15	1	17
04-35.5031-109.1944-2-15-						0-N08906	-5	-5	-5	24	-20	-15	8	-10	-15	1	25
04-35.5500-109.2242-2-15-						0-N08909	-5	5	-5	16	-20	-15	5	-10	-15	1	24
04-35.5656-109.2203-2-15-						0-N08910	-5	8	-5	20	-20	-15	12	-10	-15	1	26
04-35.6047-109.1261-2-15-						0-N08912	-5	5	-5	23	-20	-15	12	-10	-15	1	22
04-35.6239-109.1453-2-15-						0-N08913	-5	-5	-5	29	-20	-15	-5	-10	-15	1	29
04-35.6214-109.2869-2-15-						0-N08915	-5	6	-5	18	-20	-15	10	-10	-15	1	20
04-35.7278-109.5061-2-15-						0-N08916	-5	-5	-5	91	-20	-15	36	-10	-15	1	21
04-35.7256-109.5825-2-15-						0-N08919	-5	-5	-5	18	-20	-15	-5	-10	-15	1	29
04-35.7006-109.5944-2-15-						0-N08921	-5	-5	-5	17	-20	-15	-5	-10	-15	1	29

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
04-	35.2089-	109.9817-	2-	15-	0-	N08848	47580	-0.05	1308	76660	78	-85	7.2	38	3.1	5	1.6	20000	7.4	9072	29	0.3
04-	35.2019-	109.9653-	2-	15-	0-	N08849	57420	-0.06	1224	46970	77	-90	11.5	63	4.3	5	1.3	30190	10.5	9108	36	0.5
04-	35.2033-	109.9664-	2-	15-	0-	N08850	49580	-0.04	549	80810	64	-78	9.0	44	4.1	5	1.4	22490	6.5	11040	31	0.4
04-	35.2019-	109.9675-	2-	15-	0-	N08851	55680	-0.05	542	67170	63	-76	9.1	43	3.7	4	1.3	22970	6.5	12210	26	0.4
04-	35.1853-	109.9939-	2-	15-	0-	N08852	42420	-0.04	1074	61070	69	-85	6.5	36	2.7	4	1.4	18700	8.6	10560	22	0.3
04-	35.4822-	109.6192-	2-	15-	0-	N08854	54790	-0.05	642	10830	64	-71	7.3	42	3.9	4	1.5	22440	13.8	22030	33	0.4
04-	35.4578-	109.5367-	2-	15-	0-	N08855	40710	-0.03	570	13740	54	-58	4.8	40	1.6	3	0.8	20060	21.6	16970	26	0.4
04-	35.4536-	109.5572-	2-	15-	0-	N08856	50200	-0.03	586	18760	46	-58	5.4	23	2.6	3	1.2	15800	7.1	20690	20	0.3
04-	35.4378-	109.6131-	2-	15-	0-	N08857	57270	-0.05	622	31500	67	-68	5.8	31	3.3	3	1.2	19540	7.5	20520	20	0.4
04-	35.4064-	109.6167-	2-	15-	0-	N08858	59250	-0.05	541	32160	64	-68	7.6	43	5.3	4	1.4	27040	7.1	21640	30	0.3
04-	35.3469-	109.5886-	2-	15-	0-	N08861	56360	-0.04	692	20320	60	-62	6.2	39	6.5	4	1.3	20850	9.2	19630	26	0.3
04-	35.3339-	109.5961-	2-	15-	0-	N08862	72680	-0.06	812	31240	80	-57	12.0	55	15.1	5	1.6	32290	5.2	20730	34	0.4
04-	35.3261-	109.5736-	2-	15-	0-	N08863	45240	-0.04	625	27760	47	-65	4.9	32	9.4	3	1.0	15680	13.0	16830	21	0.4
04-	35.3161-	109.5886-	2-	15-	0-	N08864	45150	-0.04	710	29850	60	-66	5.1	41	12.2	4	1.3	22590	15.9	17140	32	0.3
04-	35.3267-	109.5383-	2-	15-	0-	N08865	44240	-0.03	673	15980	50	-59	6.0	35	4.5	3	1.3	20010	15.0	18450	23	0.4
04-	35.3492-	109.5311-	2-	15-	0-	N08866	43340	-0.04	904	16750	65	-58	6.3	44	6.3	4	0.9	27520	25.9	19700	28	0.5
04-	35.5972-	109.7392-	2-	15-	0-	N08868	49060	-0.04	649	15670	48	-69	3.9	25	2.1	4	1.1	15010	9.9	18720	21	0.4
04-	35.5997-	109.7219-	2-	15-	0-	N08870	45110	-0.04	841	19710	68	-71	7.0	38	2.8	4	1.6	24170	18.8	20030	35	0.4
04-	35.5356-	109.7064-	2-	15-	0-	N08872	48300	-0.04	655	9204	63	-63	5.0	40	2.6	4	1.2	18170	16.1	18110	30	0.4
04-	35.5017-	109.7250-	2-	15-	0-	N08874	46000	-0.03	582	10550	51	-57	3.9	30	2.1	4	1.2	14660	12.6	20250	24	0.3
04-	35.5094-	109.6514-	2-	15-	0-	N08875	52480	-0.04	653	12500	51	-69	5.0	33	2.8	4	1.2	16380	10.8	17440	23	0.4
04-	35.5183-	109.6347-	2-	15-	0-	N08876	41790	-0.05	531	9430	98	-67	8.0	62	2.8	6	2.0	34420	49.2	16350	48	0.8
04-	35.5144-	109.4419-	2-	15-	0-	N08877	43380	-0.04	510	5216	60	-58	5.6	44	3.3	4	1.1	17180	21.1	17600	25	0.5
04-	35.5336-	109.4392-	2-	15-	0-	N08878	42580	-0.04	569	7541	68	-56	4.6	45	2.3	5	1.3	18310	27.3	16810	29	0.5
04-	35.5006-	109.4211-	2-	15-	0-	N08879	40400	-0.04	444	5190	51	-61	4.3	31	2.9	4	0.9	12870	12.5	15450	20	0.4
04-	35.5144-	109.3742-	2-	15-	0-	N08880	45930	-0.05	466	5198	64	-70	6.8	47	3.2	5	1.4	19280	14.3	17320	29	0.4
04-	35.5872-	109.3328-	2-	15-	0-	N08882	40720	-0.04	461	5781	63	-57	6.9	47	3.6	4	1.1	15530	13.7	16980	23	0.3
04-	35.6069-	109.3253-	2-	15-	0-	N08883	41140	-0.03	485	3590	46	-55	3.8	35	2.0	4	1.0	12890	12.4	16310	20	0.4
04-	35.5853-	109.3542-	2-	15-	0-	N08884	32170	-0.03	344	3215	40	-46	3.0	37	2.2	4	0.9	10300	24.4	15190	18	0.4
04-	35.6064-	109.4197-	2-	15-	0-	N08887	57260	-0.05	654	12240	59	-60	8.3	41	5.4	4	1.4	25390	11.3	16850	33	0.4
04-	35.6072-	109.3944-	2-	15-	0-	N08889	42990	-0.05	534	6585	82	-60	7.5	85	2.6	5	1.6	31410	57.9	13140	37	0.8
04-	35.6081-	109.4475-	2-	15-	0-	N08890	47210	-0.03	604	6859	47	-61	4.7	31	2.3	4	1.0	16710	15.7	19130	24	0.3
04-	35.5542-	109.4942-	2-	15-	0-	N08893	39350	-0.03	576	6475	50	-62	3.5	27	2.0	3	1.0	11140	13.0	19510	19	0.3
04-	35.5483-	109.4800-	2-	15-	0-	N08894	39900	-0.04	552	6971	61	-61	5.9	37	3.0	4	1.4	18280	21.1	16620	30	0.5
04-	35.5369-	109.4931-	2-	15-	0-	N08895	51910	-0.07	589	9615	57	-59	6.2	37	4.4	4	1.4	19660	13.8	19190	27	0.4
04-	35.5553-	109.4056-	2-	15-	0-	N08896	47840	-0.06	635	9170	55	-52	5.2	37	3.4	4	1.0	18580	17.8	16790	25	0.4
04-	35.5506-	109.2572-	2-	15-	0-	N08898	29380	-0.06	323	2200	31	-41	2.6	34	1.7	3	0.7	11160	23.8	13440	16	0.4
04-	35.5258-	109.2533-	2-	15-	0-	N08899	37960	-0.08	436	4658	63	-57	5.4	58	2.9	4	1.3	16130	16.8	13850	28	0.4
04-	35.5267-	109.2522-	2-	15-	0-	N08900	30870	-0.05	414	3294	44	-42	3.7	47	1.8	4	1.1	12800	26.0	13870	20	0.4
04-	35.5236-	109.2322-	2-	15-	0-	N08902	31810	-0.07	418	4078	63	-45	4.8	155	1.9	7	1.5	19300	96.2	12950	36	1.0
04-	35.5386-	109.1967-	2-	15-	0-	N08903	31200	-0.05	388	5109	34	-45	2.8	23	1.0	3	0.8	6845	8.7	15770	17	0.2
04-	35.5064-	109.2111-	2-	15-	0-	N08905	32050	-0.07	436	3210	50	-51	4.9	67	2.1	4	1.3	15050	27.7	13700	30	0.5
04-	35.5031-	109.1944-	2-	15-	0-	N08906	40700	-0.06	497	4919	56	-56	5.2	45	2.7	4	1.2	14280	14.9	18120	27	0.4
04-	35.5500-	109.2242-	2-	15-	0-	N08909	37970	-0.06	514	4596	66	-56	6.1	47	2.6	5	1.3	15390	28.5	13390	30	0.6
04-	35.5656-	109.2203-	2-	15-	0-	N08910	40750	-0.06	458	4482	49	-62	4.4	36	2.4	3	0.9	12380	12.2	15900	22	0.4
04-	35.6047-	109.1261-	2-	15-	0-	N08912	38660	-0.07	416	5107	64	-60	5.8	55	2.8	4	1.4	18040	29.3	14510	34	0.5
04-	35.6239-	109.1453-	2-	15-	0-	N08913	46890	-0.07	508	6019	66	-60	6.2	43	3.2	5	1.2	17330	14.8	18270	28	0.4
04-	35.6214-	109.2869-	2-	15-	0-	N08915	39080	-0.06	411	3696	52	-48	4.3	65	2.3	5	1.2	14970	28.4	15560	25	0.5
04-	35.7278-	109.5061-	2-	15-	0-	N08916	35870	-0.06	528	8505	40	-58	2.7	19	2.1	3	0.8	10540	13.0	14700	23	0.3
04-	35.7256-	109.5825-	2-	15-	0-	N08919	34940	-0.07	685	22050	44	-55	4.3	30	2.0	3	1.0	15530	14.7	16420	26	0.3
04-	35.7006-	109.5944-	2-	15-	0-	N08921	42790	-0.06	743	31720	44	-54	4.4	30	2.1	3	1.0	14200	8.7	17630	25	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
04-35.2089-109.9817-2-15-						0-N08949	27940	797	8247	57	-1	7.2	5.1	770	-1	-1	6.3	3266	80	2.8	105	0.317
04-35.2019-109.9653-2-15-						0-N08949	20290	691	10960	-25	-1	10.0	6.5	506	-1	1	11.0	3015	79	3.6	72	0.235
04-35.2033-109.9664-2-15-						0-N08950	27210	826	9130	72	-1	8.5	5.6	-292	-1	-1	8.6	2346	66	3.1	71	0.223
04-35.2019-109.9675-2-15-						0-N08951	27920	770	8527	58	-1	8.5	5.2	732	-1	-1	8.8	3471	77	3.1	99	0.242
04-35.1853-109.9939-2-15-						0-N08952	19470	770	9287	42	-1	5.9	5.1	588	-1	-1	6.8	3338	71	3.0	50	0.335
04-35.4822-109.6192-2-15-						0-N08954	12220	364	9688	96	-1	7.2	5.2	-182	-1		10.3	3118	45	3.8	51	0.222
04-35.4578-109.5367-2-15-						0-N08955	9209	297	9106	46	-1	4.4	4.0	238	-1	-1	8.6	3552	60	3.0	54	0.291
04-35.4536-109.5572-2-15-						0-N08956	14720	295	9339	52	-1	5.5	3.8	-174	-1	-1	6.7	2529	43	2.4	89	0.249
04-35.4378-109.6131-2-15-						0-N08957	18780	359	7743	69	-1	6.6	4.4	-188	-1	-1	7.9	2719	64	3.0	-66	0.276
04-35.4064-109.6167-2-15-						0-N08959	23950	358	7472	79	-1	9.2	5.2	-185	-1	-1	11.0	2337	64	3.4	-68	0.195
04-35.3469-109.5886-2-15-						0-N08961	17130	383	7718	69	-1	7.2	4.6	-205	-1	-1	9.5	2614	54	2.7	63	0.229
04-35.3339-109.5961-2-15-						0-N08962	24900	620	4395	80	-1	11.5	6.2	-250	-1	-1	11.3	3930	91	3.7	-11	0.242
04-35.3261-109.5736-2-15-						0-N08963	12110	284	9130	53	-1	4.1	3.8	290	1	-1	7.9	3009	56	2.8	69	0.330
04-35.3161-109.5886-2-15-						0-N08964	13090	283	9333	72	-1	5.6	4.7	309	-1		10.2	2431	59	3.9	66	0.257
04-35.3267-109.5383-2-15-						0-N08965	10670	319	8695	57	-1	5.0	4.0	-184	-1	-1	7.5	3873	61	3.1	41	0.300
04-35.3492-109.5311-2-15-						0-N08966	10690	431	8294	49	-1	5.8	5.3	-194	-1	-1	10.6	5368	76	3.9	93	0.294
04-35.5972-109.7392-2-15-						0-N08968	10030	242	11440	49	-1	4.0	4.1	-159	-1	-1	6.8	2912	40	2.8	65	0.306
04-35.5997-109.7219-2-15-						0-N08970	8905	307	11000	63	-1	5.6	5.7	-166	-1	-1	11.0	3096	52	3.4	77	0.228
04-35.5356-109.7064-2-15-						0-N08972	9465	333	10190	66	-1	5.3	4.6	-190	-1	1	8.1	3554	44	3.8	31	0.307
04-35.5017-109.7250-2-15-						0-N08974	8868	269	10150	51	-1	4.5	4.7	-166	-1		7.0	3146	42	2.7	69	0.323
04-35.5094-109.6514-2-15-						0-N08975	12940	376	9783	51	-1	5.2	4.5	-179	-1		7.8	3049	49	3.1	56	0.297
04-35.5183-109.6347-2-15-						0-N08976	6774	432	9190	62	-1	6.7	7.7	-179	-1	-1	19.3	4975	75	6.2	63	0.221
04-35.5144-109.4419-2-15-						0-N08977	9101	368	7928	58	-1	5.3	4.5	-189	-1	-1	8.4	3585	40	4.2	54	0.299
04-35.5336-109.4392-2-15-						0-N08978	6951	355	8286	56	-1	5.1	5.1	-179	-1	-1	10.5	4723	51	4.5	-35	0.304
04-35.5006-109.4211-2-15-						0-N08979	6498	358	7823	34	-1	4.2	3.7	-170	-1	-1	6.8	3404	36	3.2	74	0.331
04-35.5144-109.3742-2-15-						0-N08980	9601	408	8701	71	-1	6.7	4.7	231	-1	-1	9.6	3466	43	3.6	57	0.249
04-35.5872-109.3328-2-15-						0-N08982	8321	529	5673	54	-1	5.5	4.2	-226	-1	-1	7.7	3052	36	3.2	32	0.291
04-35.6069-109.3253-2-15-						0-N08983	6592	328	7891	50	-1	4.3	4.1	-174	-1	-1	6.9	3424	39	2.9	52	0.320
04-35.5853-109.3542-2-15-						0-N08984	4920	183	4981	39	-1	3.6	3.3	-124	-1		6.7	3412	33	3.3	43	0.406
04-35.6064-109.4197-2-15-						0-N08987	8027	387	5781	64	-1	8.5	4.6	-175	-1	-1	10.7	2893	60	3.3	62	0.223
04-35.6072-109.3944-2-15-						0-N08989	7701	560	7267	67	-1	6.9	6.0	-221	2	-1	14.0	5605	75	6.2	67	0.308
04-35.6081-109.4475-2-15-						0-N08990	9123	400	9234	61	-1	4.3	3.5	-194	-1	-1	7.3	3323	50	3.0	39	0.295
04-35.5542-109.4942-2-15-						0-N08993	5688	261	8897	41	-1	3.3	3.5	262	-1		6.2	2851	35	2.4	-42	0.329
04-35.5483-109.4800-2-15-						0-N08994	7884	288	8892	79	-1	5.0	4.9	-155	-1	-1	10.4	2851	41	5.2	66	0.226
04-35.5369-109.4931-2-15-						0-N08995	8951	340	7563	59	-2	6.1	5.3	-192	-1	-1	9.3	3258	50	5.4	60	0.248
04-35.5553-109.4056-2-15-						0-N08996	7360	372	7277	50	-2	5.6	5.0	-175	-1	-1	8.8	3673	48	4.0	58	0.309
04-35.5506-109.2572-2-15-						0-N08998	4862	193	3971	44	-1	3.1	2.9	-118			6.2	3229	31	2.8	37	0.397
04-35.5258-109.2533-2-15-						0-N08999	6771	340	6521	69	-2	5.9	3.9	-160	-1	-1	8.4	2978	36	3.7	55	0.263
04-35.5267-109.2522-2-15-						0-N09000	4122	217	5110	37	-1	3.8	4.0	-140	1		7.7	3270	32	3.4	45	0.323
04-35.5236-109.2322-2-15-						0-N09002	6405	392	5381	40	-2	5.9	6.3	-168	-1	-1	12.8	5465	48	8.7	59	0.521
04-35.5386-109.1967-2-15-						0-N09003	4821	301	3980	43	-1	2.9	2.6	-143	-1		3.8	2087	27	2.4	32	0.471
04-35.5064-109.2111-2-15-						0-N09005	5437	233	6047	54	-2	5.0	4.0	-134	-1	-1	8.6	3030	33	4.0	56	0.295
04-35.5031-109.1944-2-15-						0-N09006	8903	381	7377	57	-1	5.2	5.3	-191	-1	-1	9.2	3277	37	4.1	36	0.272
04-35.5500-109.2242-2-15-						0-N09009	7908	566	6980	60	-1	4.9	5.2	-204	-1	-1	9.6	4221	42	4.9	48	0.366
04-35.5656-109.2203-2-15-						0-N09010	5164	392	7515	52	-1	4.2	4.0	-173	-1	-1	6.9	3259	39	3.1	46	0.348
04-35.6047-109.1261-2-15-						0-N09012	5636	322	7616	76	-2	5.7	4.8	-156	-1	-1	11.5	3611	37	4.5	65	0.248
04-35.6239-109.1453-2-15-						0-N09013	9756	411	8643	64	-2	5.9	4.4	-202	-1	-1	9.1	3653	37	3.8	49	0.280
04-35.6214-109.2869-2-15-						0-N09015	5308	353	5749	46	-1	4.9	4.2	-168		-1	8.7	3884	42	4.4	47	0.345
04-35.7278-109.5061-2-15-						0-N08916	6214	242	8009	38	-1	3.0	3.2	-147			5.6	2511	34	2.9	-37	0.345
04-35.7256-109.5825-2-15-						0-N09919	10040	283	5973	69	-2	4.5	3.2	-145	-1	-1	7.3	2362	41	3.5	55	0.262
04-35.7006-109.5944-2-15-						0-N08921	12300	333	6230	62	-1	4.6	4.0	-179	-1		7.1	2176	36	2.6	-33	0.259

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.6925-	109.6094-	2-	15-		0-N08922-	09/17/78-	11-	26-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	1-	-	9-	-	-	-	-	2.33
04-	35.7181-	109.6428-	2-	15-		0-N08924-	09/17/78-	12-	26-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	1-	-	9-	-	-	-	-	1.78
04-	35.6611-	109.6489-	2-	15-		0-N08932-	09/17/78-	17-	25-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	3-	1-	-	9-	-	-	-	-	2.32
04-	35.6486-	109.5900-	2-	15-		0-N08933-	09/17/78-	17-	26-		-C-	-	-	-	-	20-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	3-	1-	-	9-	-	-	-	-	1.95
04-	35.6300-	109.6189-	2-	15-		0-N08934-	09/17/78-	17-	20-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	1-	-	9-	-	-	-	-	1.87
04-	35.6253-	109.6089-	2-	15-		0-N08935-	09/17/78-	18-	24-		-	-	-	-	-	15-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	3-	1-	-	1-	-	-	-	-	1.73
04-	35.6389-	109.5725-	2-	15-		0-N08936-	09/17/78-	18-	24-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	3-	1-	-	9-	-	-	-	-	2.17
04-	35.7056-	109.5400-	2-	15-		0-N08937-	09/17/78-	19-	24-		-	-	-	-	-	6-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	1-	-	7-	-	-	-	-	2.13
04-	35.6869-	109.5217-	2-	15-		0-N08938-	09/17/78-	19-	23-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	1-	-	9-	-	-	-	-	1.75
04-	35.6264-	109.5167-	2-	15-		0-N08939-	09/17/78-	19-	23-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	3-	1-	-	9-	-	-	-	-	2.10
04-	35.7772-	109.6297-	2-	15-		0-N08940-	09/19/78-	9-	24-		-C-	-	-	-	-	6-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	1-	2-	-	9-	-	-	-	-	2.03
04-	35.8219-	109.6497-	2-	15-		0-N08941-	09/19/78-	9-	24-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-	1-	-	3-	3-	2-	2-	2-	-	9-	-	-	-	-	1.86
04-	35.8178-	109.6272-	2-	15-		0-N08942-	09/19/78-	9-	24-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	2-	-	9-	-	-	-	-	2.11
04-	35.8517-	109.6567-	2-	15-		0-N08943-	09/19/78-	10-	25-		-C-	-	-	-	-	15-	1-	6-	4-	6-	-	1-	-	3-	3-	2-	2-	2-	-	9-	-	-	-	-	2.00
04-	35.8600-	109.6367-	2-	15-		0-N08944-	09/19/78-	10-	25-		-C-	-	-	-	-	6-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	2-	-	9-	-	-	-	-	2.62
04-	35.8664-	109.6717-	2-	15-		0-N08945-	09/19/78-	10-	25-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	2-	-	9-	-	-	-	-	1.75
04-	35.8342-	109.6783-	2-	15-		0-N08946-	09/19/78-	9-	24-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	2-	-	9-	-	-	-	-	2.30
04-	35.8714-	109.7081-	2-	15-		0-N08947-	09/19/78-	11-	25-		-C-	-	-	-	-	15-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	2-	-	9-	-	-	-	-	2.21
04-	35.7956-	109.6883-	2-	15-		0-N08948-	09/19/78-	11-	25-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	2-	-	9-	-	-	-	-	1.34
04-	35.7850-	109.7097-	2-	15-		0-N08949-	09/19/78-	11-	25-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	2-	-	9-	-	-	-	-	1.78
04-	35.5014-	109.4847-	2-	15-		0-N08950-	09/14/78-	10-	24-		-C-	-	-	-	-	15-	1-	6-	4-	6-	-	1-	-	2-	1-	2-	3-	1-	-	9-	-	-	-	-	2.82
04-	35.3567-	109.5533-	2-	15-		0-N08951-	09/15/78-	16-	30-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	2.06
04-	35.3800-	109.5761-	2-	15-		0-N08952-	09/15/78-	17-	30-		-C-	-	-	-	-	7-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	1.99
04-	35.3822-	109.5478-	2-	15-		0-N08953-	09/15/78-	18-	30-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-	1-	-	2-	1-	3-	3-	2-	-	9-	-	-	-	-	2.71
04-	35.3983-	109.5264-	2-	15-		0-N08954-	09/15/78-	18-	30-		-C-	-	-	-	-	6-	1-	4-	4-	4-	-	1-	-	2-	1-	3-	3-	2-	-	9-	-	-	-	-	2.07
04-	35.3894-	109.5064-	2-	15-		0-N08955-	09/15/78-	19-	30-		-C-	-	-	-	-	13-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	3.68
04-	35.2903-	109.5192-	2-	15-		0-N08956-	09/16/78-	9-	20-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	3-	-	9-	-	-	-	-	2.36
04-	35.2542-	109.5306-	2-	15-		0-N08957-	09/16/78-	9-	20-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	3-	-	9-	-	-	-	-	1.81
04-	35.2694-	109.5556-	2-	15-		0-N08958-	09/15/78-	10-	21-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	3-	-	9-	-	-	-	-	2.39
04-	35.2853-	109.5536-	2-	15-		0-N08959-	09/15/78-	10-	21-		-C-	-	-	-	-	8-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	3-	-	9-	-	-	-	-	2.13
04-	35.2703-	109.5797-	2-	15-		0-N08960-	09/15/78-	10-	21-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	3-	-	9-	-	-	-	-	2.15
04-	35.2525-	109.6100-	2-	15-		0-N08961-	09/15/78-	11-	22-		-C-	-	-	-	-	10-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	2.15
04-	35.2575-	109.6239-	2-	15-		0-N08962-	09/15/78-	12-	22-		-C-	-	-	-	-	11-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	2.15
04-	35.2622-	109.7103-	2-	15-		0-N08964-	09/16/78-	12-	25-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	2-	2-	-	9-	-	-	-	-	1.71
04-	35.2758-	109.6883-	2-	15-		0-N08965-	09/16/78-	13-	25-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	2-	2-	-	9-	-	-	-	-	3.16
04-	35.2819-	109.6858-	2-	15-		0-N08966-	09/16/78-	13-	25-		-C-	-	-	-	-	11-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	2-	2-	-	9-	-	-	-	-	2.96
04-	35.2831-	109.6942-	2-	11-		0-N08967-	09/16/78-	14-	26-	17.8-	C-	-	6.6-	740-		9-	1-	4-	4-	4-	4-	3-	1-	-	3-	3-	3-	2-	-	9-	-	-	-	-	3.28
04-	35.2872-	109.6883-	2-	11-		0-N08968-	09/16/78-	15-	26-	17.5-	C-	-	6.4-	640-		6-	1-	6-	4-	6-	4-	3-	1-	-	3-	2-	3-	2-	-	9-	-	-	-	-	2.47
04-	35.2975-	109.6744-	2-	99-		0-N08969-	09/16/78-	16-	27-		-C-	-	-	-	-	10-	1-	6-	5-	6-	1-	2-	-	-	3-	3-	3-	2-	-	9-	-	-	-	-	2.99
04-	35.3111-	109.6642-	2-	15-		0-N08970-	09/16/78-	16-	27-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	5.70
04-	35.3317-	109.7000-	2-	15-		0-N08971-	09/16/78-	17-	27-		-C-	-	-	-	-	10-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	3.34
04-	35.3664-	109.7147-	2-	15-		0-N08973-	09/16/78-	18-	27-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	2.75
04-	35.3325-	109.7442-	2-	15-		0-N08974-	09/16/78-	18-	27-		-C-	-	-	-	-	10-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	3.86
04-	35.2978-	109.9786-	2-	15-		0-N08978-	09/17/78-	11-	23-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	3.21
04-	35.3106-	109.9753-	2-	15-		0-N08979-	09/17/78-	12-	24-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	2.28
04-	35.3150-	109.9869-	2-	15-		0-N08980-	09/17/78-	12-	24-		-C-	-	-	-	-	11-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	4.05
04-	35.3183-	109.9403-	2-	15-		0-N08981-	09/17/78-	13-	24-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	3.11
04-	35.3114-	109.9375-	2-	15-		0-N08982-	09/17/78-	13-	24-		-C-	-	-	-	-	7-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	4-	2-	-	9-	-	-	-	-	5.11
04-	35.3272-	109.9911-	2-	15-		0-N08983-	09/17/78-	14-	24-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	2.98
04-	35.3503-	109.9539-	2-	15-		0-N08984-	09/17/78-	14-	25-		-C-	-	-	-	-	12-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	2.51
04-	35.3475-	109.8967-	2-	15-		0-N08985-	09/17/78-	15-	25-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-	1-	-	2-	3-	3-	3-	2-	-	9-	-	-	-	-	3.12

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

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
04-35.6925-109.6094-2-15-					0	-N08922	-5	-5	-5	21	-20	-15	9	-10	-15	1	40
04-35.7181-109.6428-2-15-					0	-N08924	-5	5	-5	15	-20	-15	9	-10	-15	1	28
04-35.6611-109.6489-2-15-					0	-N08932	-5	-5	-5	15	-20	-15	-5	-10	-15	1	30
04-35.6486-109.5900-2-15-					0	-N08933	-5	-5	-5	27	-20	-15	9	-10	-15	2	46
04-35.6300-109.6189-2-15-					0	-N08934	-5	5	-5	23	-20	-15	6	-10	-15	1	28
04-35.6253-109.6089-2-15-					0	-N08935	-5	-5	-5	26	-20	-15	-5	-10	-15	1	20
04-35.6389-109.5725-2-15-					0	-N08936	-5	-5	-5	13	-20	15	5	-10	-15	1	24
04-35.7056-109.5400-2-15-					0	-N08937	-5	-5	-5	23	-20	-15	-5	-10	-15	2	21
04-35.6869-109.5217-2-15-					0	-N08938	-5	7	-5	24	-20	-15	9	-10	-15	1	28
04-35.6264-109.5167-2-15-					0	-N08939	-5	-5	-5	26	-20	-15	-5	-10	-15	1	35
04-35.7772-109.6297-2-15-					0	-N08940	-5	-5	-5	18	-20	-15	-5	-10	-15	1	40
04-35.8219-109.6497-2-15-					0	-N08941	-5	5	-5	13	-20	-15	6	-10	-15	1	26
04-35.8178-109.6272-2-15-					0	-N08942	-5	-5	-5	27	-20	-15	5	-10	-15	2	38
04-35.8517-109.6567-2-15-					0	-N08943	-5	-5	-5	21	-20	-15	5	-10	-15	1	23
04-35.8600-109.6367-2-15-					0	-N08944	-5	-5	-5	31	-20	-15	-5	-10	-15	1	30
04-35.8664-109.6717-2-15-					0	-N08945	-5	6	-5	16	-20	-15	6	-10	-15	1	20
04-35.8342-109.6783-2-15-					0	-N08946	-5	6	-5	18	-20	-15	9	-10	-15	2	29
04-35.8714-109.7081-2-15-					0	-N08947	-5	-5	-5	21	-20	-15	-5	-10	-15	1	19
04-35.7956-109.6883-2-15-					0	-N08948	-5	-5	-5	13	-20	-15	-5	-10	-15	1	24
04-35.7850-109.7097-2-15-					0	-N08949	-5	-5	-5	18	-20	-15	9	-10	-15	1	22
04-35.5014-109.4847-2-15-					0	-N08950	-5	5	-5	11	-20	-15	-5	-10	-15	1	20
04-35.3567-109.5533-2-15-					0	-N08951	-5	5	-5	21	-20	-15	8	-10	-15	2	45
04-35.3800-109.5761-2-15-					0	-N08952	-5	-5	-5	14	-20	-15	-5	-10	-15	1	30
04-35.3822-109.5478-2-15-					0	-N08953	-5	-5	-5	17	-20	-15	5	-10	-15	1	28
04-35.3983-109.5264-2-15-					0	-N08954	-5	-5	-5	13	-20	-15	-5	-10	-15	1	21
04-35.3894-109.5064-2-15-					0	-N08955	9	11	-5	28	-20	-15	-5	-10	-15	2	19
04-35.2903-109.5192-2-15-					0	-N08956	-5	-5	-5	17	-20	-15	8	-10	-15	1	27
04-35.2542-109.5306-2-15-					0	-N08957	-5	-5	-5	17	-20	-15	7	-10	-15	2	25
04-35.2694-109.5556-2-15-					0	-N08958	-5	-5	-5	26	-20	-15	8	-10	-15	2	30
04-35.2853-109.5536-2-15-					0	-N08959	-5	-5	-5	22	-20	-15	10	-10	-15	1	24
04-35.2703-109.5797-2-15-					0	-N08960	-5	-5	-5	25	-20	-15	7	-10	-15	1	32
04-35.2525-109.6100-2-15-					0	-N08961	-5	-5	-5	34	-20	16	6	-10	-15	2	52
04-35.2575-109.6239-2-15-					0	-N08962	-5	-5	-5	17	-20	-15	-5	-10	-15	2	48
04-35.2622-109.7103-2-15-					0	-N08964	-5	-5	-5	24	-20	-15	5	-10	-15	1	42
04-35.2758-109.6883-2-15-					0	-N08965	-5	8	-5	16	-20	16	10	-10	-15	1	38
04-35.2819-109.6858-2-15-					0	-N08966	-5	-5	-5	26	-20	-15	5	-10	-15	1	59
04-35.2831-109.6942-2-11-					0	-N08967	-5	-5	-5	15	-20	29	9	-10	-15	2	51
04-35.2872-109.6883-2-11-					0	-N08968	-5	-5	-5	14	-20	-15	-5	-10	-15	1	19
04-35.2975-109.6744-2-99-					0	-N08969	-5	-5	-5	21	-20	-15	9	-10	-15	1	47
04-35.3111-109.6642-2-15-					0	-N08970	-5	-5	-5	24	-20	-15	5	-10	-15	1	49
04-35.3317-109.7000-2-15-					0	-N08971	-5	-5	-5	21	-20	-15	-5	-10	-15	2	59
04-35.3664-109.7147-2-15-					0	-N08973	-5	-5	-5	17	-20	16	-5	-10	-15	1	54
04-35.3325-109.7442-2-15-					0	-N08974	-5	-5	-5	21	-20	-15	6	-10	-15	2	73
04-35.2978-109.9786-2-15-					0	-N08978	-5	-5	-5	18	-20	-15	-5	-10	-15	2	76
04-35.3106-109.9753-2-15-					0	-N08979	-5	-5	-5	18	-20	-15	-5	-10	-15	1	23
04-35.3150-109.9869-2-15-					0	-N08980	-5	-5	-5	17	-20	-15	-5	-10	-15	1	26
04-35.3183-109.9403-2-15-					0	-N08981	-5	8	-5	19	-20	-15	8	-10	-15	1	26
04-35.3114-109.9375-2-15-					0	-N08982	-5	9	-5	25	-20	20	9	-10	-15	1	66
04-35.3272-109.9911-2-15-					0	-N08983	-5	-5	-5	26	-20	-15	-5	-10	-15	1	27
04-35.3503-109.9539-2-15-					0	-N08984	-5	6	-5	18	-20	18	-5	-10	-15	-1	28
04-35.3475-109.8967-2-15-					0	-N08985	-5	-5	-5	25	-20	-15	-5	-10	-15	1	39

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

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
04-	35.6925-	109.6094-	2-	15-	0-	N08932	49700	-0.07	634	58440	54	-57	6.5	32	3.5	5	1.2	19000	9.4	14360	23	0.3
04-	35.7181-	109.6428-	2-	15-	0-	N08934	42250	-0.07	633	33360	48	-66	4.7	32	2.3	3	0.9	13260	8.6	15610	26	0.3
04-	35.6611-	109.6489-	2-	15-	0-	N08932	38010	-0.08	451	43970	56	-67	6.5	48	3.2	4	1.1	23370	23.4	15280	24	0.4
04-	35.6486-	109.5900-	2-	15-	0-	N08933	48390	-0.08	536	63500	55	-60	7.4	55	3.8	5	1.3	21830	7.7	18740	27	0.3
04-	35.6300-	109.6189-	2-	15-	0-	N08934	45140	-0.06	516	29000	46	-54	5.6	35	3.3	3	1.0	17700	10.5	17820	22	0.3
04-	35.6253-	109.6089-	2-	15-	0-	N08935	31700	-0.06	497	9581	36	-52	2.7	19	1.3	2	0.7	12360	12.6	15730	16	0.2
04-	35.6389-	109.5725-	2-	15-	0-	N08936	35040	-0.07	571	16090	58	-57	5.7	42	2.3	3	1.4	20880	21.5	15950	35	0.4
04-	35.7056-	109.5400-	2-	15-	0-	N08937	47160	-0.07	684	17030	54	-54	5.7	37	4.4	3	1.2	20740	13.3	18760	33	0.4
04-	35.6869-	109.5217-	2-	15-	0-	N08938	42100	-0.06	651	10890	40	-53	4.3	23	2.6	3	1.0	15110	9.1	18680	25	0.3
04-	35.6264-	109.5167-	2-	15-	0-	N08939	47430	-0.07	627	17520	53	-67	4.8	29	2.9	4	1.1	17450	11.1	16910	24	0.3
04-	35.7772-	109.6297-	2-	15-	0-	N08940	45410	-0.08	496	49850	51	-66	7.4	44	3.5	4	1.1	20910	9.5	16690	31	0.4
04-	35.8219-	109.6497-	2-	15-	0-	N08941	41980	-0.06	502	13720	48	-54	5.4	33	2.4	3	1.1	15260	13.3	18160	27	0.3
04-	35.8178-	109.6272-	2-	15-	0-	N08942	49470	-0.06	446	21010	34	-52	4.9	26	1.8	3	0.9	15300	7.8	19080	16	0.3
04-	35.8517-	109.6567-	2-	15-	0-	N08943	34680	-0.06	403	13400	28	-54	2.7	24	1.6	2	0.6	9063	14.0	17490	13	0.2
04-	35.8600-	109.6367-	2-	15-	0-	N08944	48340	-0.08	480	31490	59	-59	6.0	35	3.9	4	1.2	19200	7.1	21250	36	0.3
04-	35.8664-	109.6717-	2-	15-	0-	N08945	34710	-0.05	421	17980	32	-50	2.8	25	1.8	2	0.9	9337	13.4	19530	17	0.2
04-	35.8342-	109.6783-	2-	15-	0-	N08946	54620	-0.07	468	12970	50	-53	6.5	37	3.2	4	1.2	19530	12.6	21500	26	0.3
04-	35.8714-	109.7081-	2-	15-	0-	N08947	31960	-0.06	457	13160	36	-50	2.9	26	2.2	3	0.7	9383	18.2	16440	18	0.3
04-	35.7956-	109.6883-	2-	15-	0-	N08948	34970	-0.06	462	16090	34	-51	3.6	24	2.1	2	0.9	10950	8.3	18040	23	0.2
04-	35.7850-	109.7097-	2-	15-	0-	N08949	33620	-0.05	418	9865	34	-46	2.8	34	-0.7	2	0.9	10630	20.1	16300	18	0.4
04-	35.5014-	109.4847-	2-	15-	0-	N08950	35780	-0.06	476	6557	55	-50	4.1	42	1.6	4	1.2	15260	24.4	14450	25	0.5
04-	35.3567-	109.5533-	2-	15-	0-	N08951	50630	-0.07	682	17710	55	-59	5.4	31	5.4	4	1.0	15690	7.7	19590	22	0.3
04-	35.3800-	109.5761-	2-	15-	0-	N08952	41750	-0.08	541	12870	56	-60	5.1	31	4.4	3	1.3	18550	14.5	18360	25	0.4
04-	35.3822-	109.5478-	2-	15-	0-	N08953	41210	-0.07	566	15670	58	-55	5.8	48	4.0	4	1.1	20730	23.4	18040	35	0.5
04-	35.3983-	109.5264-	2-	15-	0-	N08954	38280	-0.05	607	9521	42	-50	3.8	29	2.6	3	1.0	14560	17.7	16720	23	0.3
04-	35.3894-	109.5064-	2-	15-	0-	N08955	46380	-0.08	702	17410	64	-54	7.2	62	3.6	5	1.3	28530	28.7	14840	35	0.6
04-	35.2903-	109.5192-	2-	15-	0-	N08956	44590	-0.08	584	5993	65	-69	6.6	41	2.7	4	1.4	21760	20.8	18040	31	0.5
04-	35.2542-	109.5306-	2-	15-	0-	N08957	45090	-0.06	547	6010	47	-62	4.5	27	2.0	4	1.1	14060	9.4	18790	21	0.4
04-	35.2694-	109.5556-	2-	15-	0-	N08958	45810	-0.07	592	5555	57	-63	5.7	36	3.2	4	1.2	17660	14.1	20100	28	0.3
04-	35.2853-	109.5536-	2-	15-	0-	N08959	46600	-0.07	555	5750	56	-75	4.6	32	2.6	-1	1.0	13400	10.5	20750	23	0.2
04-	35.2703-	109.5797-	2-	15-	0-	N08960	45800	-0.09	552	7276	63	-70	7.3	42	4.3	4	1.4	21420	13.1	18010	31	0.5
04-	35.2525-	109.6100-	2-	15-	0-	N08961	53220	-0.07	617	33450	54	-64	6.6	43	4.2	3	1.2	19950	9.5	18030	30	0.3
04-	35.2575-	109.6239-	2-	15-	0-	N08962	47680	-0.06	682	22210	51	-60	5.4	31	3.4	4	1.1	18450	10.1	20950	24	0.4
04-	35.2622-	109.7103-	2-	15-	0-	N08964	46440	-0.09	647	56900	71	-75	8.5	42	3.6	4	1.4	22860	9.9	17970	36	0.4
04-	35.2758-	109.6883-	2-	15-	0-	N08965	38520	-0.06	1007	28070	71	-73	6.9	57	2.7	5	1.0	25740	30.2	14120	40	0.6
04-	35.2819-	109.6858-	2-	15-	0-	N08966	45230	-0.06	774	33740	59	-68	6.0	39	3.2	4	1.2	20040	18.5	16500	33	0.5
04-	35.2831-	109.6942-	2-	11-	0-	N08967	53660	-0.09	871	30110	80	-77	7.2	67	3.1	6	1.3	23400	20.4	15060	30	0.4
04-	35.2872-	109.6883-	2-	11-	0-	N08968	33530	-0.06	499	10300	58	-62	3.7	39	-0.9	3	0.7	15260	22.7	16190	32	0.4
04-	35.2975-	109.6744-	2-	99-	0-	N08969	39900	-0.06	662	21170	61	728	4.8	43	2.5	5	1.2	19520	24.5	18790	33	0.5
04-	35.3111-	109.6642-	2-	15-	0-	N08970	43140	-0.06	660	20650	52	1794	5.4	38	2.5	4	1.2	21470	18.9	16090	29	0.4
04-	35.3317-	109.7000-	2-	15-	0-	N08971	46680	-0.06	842	22530	49	-61	4.2	28	2.3	3	1.1	13010	9.8	21000	25	0.4
04-	35.3664-	109.7147-	2-	15-	0-	N08973	45000	-0.07	673	20230	49	-68	5.7	30	3.1	3	1.3	17200	9.6	19920	38	0.3
04-	35.3325-	109.7442-	2-	15-	0-	N08974	51410	-0.07	673	29340	66	-75	6.6	39	3.7	5	1.3	22800	16.6	17150	30	0.5
04-	35.2978-	109.9786-	2-	15-	0-	N08978	51580	-0.07	527	44120	55	-64	7.0	45	4.3	4	1.2	22920	12.4	17370	31	0.3
04-	35.3106-	109.9753-	2-	15-	0-	N08979	39230	-0.06	759	15990	45	-56	2.9	22	1.1	4	1.0	11620	11.9	18420	22	0.3
04-	35.3150-	109.9869-	2-	15-	0-	N08980	41580	-0.09	653	19190	97	-67	9.1	70	2.5	5	1.9	38210	44.0	16270	48	0.7
04-	35.3183-	109.9403-	2-	15-	0-	N08981	46150	-0.07	572	29310	71	-72	5.9	47	2.9	5	1.4	24140	21.1	17950	27	0.5
04-	35.3114-	109.9375-	2-	15-	0-	N08982	56340	-0.09	689	55040	78	-69	11.6	60	4.7	6	1.4	37750	24.8	18710	41	0.5
04-	35.3272-	109.9911-	2-	15-	0-	N08983	42940	-0.08	811	69710	54	-61	6.3	51	2.1	5	1.1	22180	17.6	15710	28	0.4
04-	35.3503-	109.9539-	2-	15-	0-	N08984	38920	-0.08	666	73250	62	-67	7.0	44	2.8	5	1.4	19810	17.4	15460	36	0.4
04-	35.3475-	109.8967-	2-	15-	0-	N08985	52140	-0.07	562	34240	75	-71	6.9	39	3.3	4	1.2	21380	14.9	18440	34	0.4

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)														
							Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
04-	35.6925-	109.6094-	2-	15-		0-N08922	56180	185	5150	57	-2	6.5	3.9	570	-1	-1	8.4	3228	44	3.7	28	0.277
04-	35.7181-	109.6428-	2-	15-		0-N08924	15760	389	7169	42	-2	4.6	3.6	-181	-1	-1	6.3	2854	37	3.5	-66	0.283
04-	35.6611-	109.6489-	2-	15-		0-N08932	16590	385	7270	57	-2	6.1	4.7	-177	-1	-1	10.0	3043	50	3.7	55	0.232
04-	35.6486-	109.5900-	2-	15-		0-N08933	29590	449	5033	85	-2	8.3	5.3	255	-1	-1	9.3	3437	48	4.3	45	0.210
04-	35.6300-	109.6189-	2-	15-		0-N08934	20180	376	6075	63	-1	5.4	3.9	-184	-1	-1	7.6	3215	50	2.9	36	0.246
04-	35.6253-	109.6089-	2-	15-		0-N08935	6992	224	6202	43	-1	2.5	2.7	-135			5.3	2452	37	2.1	-31	0.326
04-	35.6389-	109.5725-	2-	15-		0-N08936	8405	289	7016	72	-2	4.9	4.7	-151	-1	-1	9.3	3089	48	3.3	-20	0.233
04-	35.7056-	109.5400-	2-	15-		0-N08937	9133	288	7056	71	-1	5.6	4.9	-171	-1	-1	9.1	2910	53	2.7	47	0.234
04-	35.6869-	109.5217-	2-	15-		0-N08938	9418	265	8128	55	-1	4.1	3.6	-159	-1		6.4	2444	38	1.8	81	0.273
04-	35.6264-	109.5167-	2-	15-		0-N08939	11100	370	8754	40	-2	4.9	4.6	-178	-1	-1	8.0	3416	49	2.7	79	0.263
04-	35.7772-	109.6297-	2-	15-		0-N08940	22590	405	6726	75	-2	7.8	4.5	429	-1	-1	8.7	2509	46	2.6	69	0.233
04-	35.8219-	109.6497-	2-	15-		0-N08941	13220	336	6592	62	-1	5.2	3.0	339	-1	-1	6.5	2448	35	2.9	41	0.286
04-	35.8178-	109.6272-	2-	15-		0-N08942	20770	331	6174	63	-2	5.5	2.9	-174	-1	-1	6.0	2574	46	1.8	54	0.352
04-	35.8517-	109.6567-	2-	15-		0-N08943	9753	256	6600	39	-1	3.0	2.3	-143			4.6	2478	27	2.2	-25	0.435
04-	35.8600-	109.6367-	2-	15-		0-N08944	13210	315	5720	87	-2	6.3	5.6	247	-1	-1	10.5	2297	46	3.5	-45	0.250
04-	35.8664-	109.6717-	2-	15-		0-N08945	10300	233	7057	49	-1	3.1	2.6	-152			4.9	2345	23	2.3	-20	0.357
04-	35.8342-	109.6783-	2-	15-		0-N08946	17700	433	5787	57	-2	6.2	4.4	-193	-1	-1	7.6	2962	54	2.6	67	0.303
04-	35.8714-	109.7081-	2-	15-		0-N08947	7773	244	5477	-13	-1	2.9	2.7	-136			5.2	2719	33	2.5	45	0.425
04-	35.7956-	109.6883-	2-	15-		0-N08948	8554	192	6114	56	-1	4.1	3.2	-126	-1		5.5	1637	25	2.3	46	0.244
04-	35.7850-	109.7097-	2-	15-		0-N08949	6551	263	5408	61	-1	3.6	2.5	-154			5.2	2102	29	2.8	44	0.342
04-	35.5014-	109.4847-	2-	15-		0-N08950	5596	285	7571	54	-1	4.3	5.3	-153	1	-1	8.7	4296	45	3.5	40	0.324
04-	35.3567-	109.5533-	2-	15-		0-N08951	11580	344	6229	52	-2	5.4	3.1	277	-1	-1	6.6	3198	52	3.0	-28	0.312
04-	35.3800-	109.5761-	2-	15-		0-N08952	7651	263	7697	65	-2	5.6	4.1	-150	-1	-1	8.6	2644	42	3.3	27	0.231
04-	35.3822-	109.5478-	2-	15-		0-N08953	8437	324	7293	76	-2	5.4	4.5	-181	-1	-1	9.1	3687	56	4.0	36	0.298
04-	35.3983-	109.5264-	2-	15-		0-N08954	6442	239	7984	59	-1	3.7	3.7	-149		-1	7.7	3251	41	2.4	55	0.269
04-	35.3894-	109.5064-	2-	15-		0-N08955	11950	473	4355	-20	-2	6.7	5.5	-186	-1	-1	11.6	4982	93	5.2	82	0.317
04-	35.2903-	109.5192-	2-	15-		0-N08956	8069	384	9078	69	-2	6.2	5.7	-180	-1	-1	10.6	2872	54	4.0	53	0.223
04-	35.2542-	109.5306-	2-	15-		0-N08957	8075	312	9051	63	-1	4.7	4.3	-190	-1	-1	7.5	2762	34	3.0	43	0.241
04-	35.2694-	109.5556-	2-	15-		0-N08958	10150	510	9056	49	-2	5.7	4.8	-212	-1	-1	7.6	3520	46	2.8	84	0.314
04-	35.2853-	109.5536-	2-	15-		0-N08959	9461	504	9709	38	-2	4.4	3.0	-208	-1	-1	6.1	3555	38	2.8	55	0.349
04-	35.2703-	109.5797-	2-	15-		0-N08960	11340	413	9242	70	-2	6.7	4.8	-184	-1	-1	9.9	2866	43	3.9	72	0.217
04-	35.2525-	109.6100-	2-	15-		0-N08961	16850	389	7574	53	-2	6.8	4.5	-214	-1	-1	8.1	2811	60	3.6	79	0.265
04-	35.2575-	109.6239-	2-	15-		0-N08962	13920	350	9170	60	-1	5.6	4.1	-184	-1	-1	7.5	3278	56	2.8	65	0.287
04-	35.2622-	109.7103-	2-	15-		0-N08964	22000	637	7225	61	-2	8.4	5.9	-231	-1	-1	9.0	2844	49	4.4	69	0.190
04-	35.2758-	109.6883-	2-	15-		0-N08965	13590	541	9176	45	-1	5.7	5.3	-198	-1	-1	10.1	4459	71	4.3	58	0.313
04-	35.2819-	109.6858-	2-	15-		0-N08966	12850	521	9386	67	-1	5.5	5.1	339	-1	-1	9.4	3453	59	3.0	47	0.315
04-	35.2831-	109.6942-	2-	11-		0-N08967	18220	558	10980	57	-2	6.4	6.0	-251	-1	-1	10.6	5094	79	3.9	103	0.309
04-	35.2872-	109.6883-	2-	11-		0-N08968	5690	267	9135	65	-1	3.5	4.1	266	-1	-1	9.2	3219	36	3.8	43	0.268
04-	35.2975-	109.6744-	2-	99-		0-N08969	8581	322	12650	57	-1	4.9	4.7	369	-1		9.5	3567	58	4.1	41	0.315
04-	35.3111-	109.6642-	2-	15-		0-N08970	13110	363	12290	47	-1	5.3	4.1	-209	-1		8.0	3869	65	2.7	81	0.712
04-	35.3317-	109.7000-	2-	15-		0-N08971	14290	296	10650	42	-1	4.2	3.3	367	-1	-1	6.1	3118	46	3.2		0.548
04-	35.3664-	109.7147-	2-	15-		0-N08973	11610	249	10200	91	-2	5.6	4.2	-164	-1		7.9	2532	43	2.7	54	0.348
04-	35.3325-	109.7442-	2-	15-		0-N08974	19620	377	9838	59	-2	6.5	5.6	-187	-1	1	10.4	3321	61	4.3	82	0.371
04-	35.2978-	109.9786-	2-	15-		0-N08979	21610	446	7882	57	-2	7.0	5.2	551	1	-1	9.1	3255	59	2.8	80	0.353
04-	35.3106-	109.9753-	2-	15-		0-N08979	9461	280	9752	-13	-1	3.4	3.5	245			5.2	3110	45	1.8	37	0.438
04-	35.3150-	109.9869-	2-	15-		0-N08980	13790	467	8949	48	-2	7.3	7.6	-192	-1	-1	15.1	5582	90	5.8	65	0.268
04-	35.3183-	109.9403-	2-	15-		0-N08981	17470	374	9421	60	-2	6.0	5.2	-181	-1	-1	11.0	3411	61	4.9	87	0.283
04-	35.3114-	109.9375-	2-	15-		0-N08982	31510	709	5208	65	-2	9.5	6.9	560	-1	-1	14.5	5508	105	6.4	127	0.352
04-	35.3272-	109.9911-	2-	15-		0-N08983	21950	568	6251	39	-2	5.9	4.3	291	-1	-1	8.3	5196	71	3.5	47	0.359
04-	35.3503-	109.9539-	2-	15-		0-N08984	20020	490	6604	63	-2	7.4	6.3	318	-1	-1	9.4	3128	45	4.0	47	0.267
04-	35.3475-	109.8967-	2-	15-		0-N08985	18650	378	8845	61	-2	7.0	5.0	-184	-1		10.9	3466	54	4.6	87	0.286

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.3358-	109.9103-	2-	15-		0-N08996-	09/17/78-	16-	25-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	3.35
04-	35.3661-	109.8764-	2-	15-		0-N08988-	09/17/78-	18-	25-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	2.86
04-	35.3364-	109.8692-	2-	15-		0-N08989-	09/18/78-	10-	22-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	2.18
04-	35.3647-	109.8331-	2-	15-		0-N08990-	09/18/78-	11-	23-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	2.72
04-	35.3558-	109.8078-	2-	15-		0-N08991-	09/18/78-	11-	23-		-C-	-	-	-	-	11-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	2.54
04-	35.3447-	109.7928-	2-	15-		0-N08992-	09/18/78-	12-	23-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.27
04-	35.3150-	109.8156-	2-	15-		0-N08994-	09/18/78-	13-	24-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.64
04-	35.2939-	109.8169-	2-	15-		0-N08995-	09/18/78-	13-	23-		-C-	-	-	-	-	7-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.12
04-	35.2858-	109.8422-	2-	15-		0-N08996-	09/18/78-	13-	23-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	1.85
04-	35.3019-	109.8464-	2-	15-		0-N08997-	09/18/78-	14-	23-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.00
04-	35.2806-	109.8661-	2-	15-		0-N08998-	09/18/78-	14-	23-		-C-	-	-	-	-	6-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.69
04-	35.2997-	109.7994-	2-	15-		0-N08999-	09/18/78-	15-	23-		-C-	-	-	-	-	6-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	1.80
04-	35.2814-	109.8344-	2-	15-		0-N09000-	09/18/78-	15-	23-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.90
04-	35.2578-	109.8692-	2-	15-		0-N09001-	09/18/78-	16-	23-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.50
04-	35.2508-	109.8544-	2-	15-		0-N09002-	09/18/78-	16-	23-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	1.80
04-	35.2986-	109.7669-	2-	15-		0-N09003-	09/18/78-	17-	23-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.30
04-	35.2656-	109.7939-	2-	15-		0-N09004-	09/18/78-	18-	23-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	4.40
04-	35.2628-	109.7861-	2-	15-		0-N09005-	09/18/78-	18-	23-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	3.10
04-	35.4608-	109.6597-	2-	15-		0-N09006-	09/19/78-	10-	22-		-C-	-	-	-	-	4-	1-	4-	4-	4-	-1-	-	-2-	1-	3-	3-	1-	-9-	-	-	-	-	2.00
04-	35.4572-	109.6569-	2-	15-		0-N09007-	09/19/78-	10-	22-		-C-	-	-	-	-	5-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.30
04-	35.4600-	109.6747-	2-	15-		0-N09008-	09/19/78-	10-	22-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-1-	-	-2-	1-	3-	3-	1-	-9-	-	-	-	-	2.40
04-	35.3942-	109.7008-	2-	15-		0-N09010-	09/19/78-	12-	23-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	4-	1-	-9-	-	-	-	-	2.20
04-	35.3928-	109.6986-	2-	15-		0-N09011-	09/19/78-	12-	23-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	4-	1-	-9-	-	-	-	-	2.00
04-	35.4842-	109.6781-	2-	15-		0-N09013-	09/19/78-	13-	23-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	3.60
04-	35.4442-	109.7219-	2-	15-		0-N09015-	09/19/78-	14-	23-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	4-	1-	-9-	-	-	-	-	2.30
04-	35.4336-	109.7364-	2-	15-		0-N09016-	09/19/78-	14-	23-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	1.60
04-	35.4558-	109.7356-	2-	15-		0-N09017-	09/19/78-	14-	23-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.51
04-	35.4869-	109.7478-	2-	15-		0-N09019-	09/19/78-	15-	23-		-C-	-	-	-	-	11-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.47
04-	35.4697-	109.7822-	2-	15-		0-N09020-	09/19/78-	15-	23-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	4-	1-	-9-	-	-	-	-	2.35
04-	35.4753-	109.7881-	2-	15-		0-N09021-	09/19/78-	15-	23-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	4-	1-	-9-	-	-	-	-	2.55
04-	35.4008-	109.7806-	2-	15-		0-N09022-	09/19/78-	16-	23-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	3.40
04-	35.3778-	109.8017-	2-	15-		0-N09023-	09/19/78-	16-	23-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	3.35
04-	35.4178-	109.8164-	2-	15-		0-N09024-	09/19/78-	17-	23-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.80
04-	35.4214-	109.8181-	2-	15-		0-N09025-	09/19/78-	17-	23-		-C-	-	-	-	-	11-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	2.81
04-	35.4322-	109.8278-	2-	15-		0-N09026-	09/19/78-	17-	23-		-C-	-	-	-	-	11-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.11
04-	35.3942-	109.8564-	2-	15-		0-N09027-	09/19/78-	18-	23-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	2.35
04-	35.3908-	109.8703-	2-	15-		0-N09028-	09/19/78-	18-	23-		-C-	-	-	-	-	11-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.23
04-	35.4081-	109.8947-	2-	15-		0-N09030-	09/20/78-	8-	19-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.99
04-	35.4211-	109.8892-	2-	15-		0-N09032-	09/20/78-	9-	20-		-C-	-	-	-	-	12-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.75
04-	35.4117-	109.9311-	2-	15-		0-N09033-	09/20/78-	9-	20-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	1.95
04-	35.4217-	109.9375-	2-	15-		0-N09034-	09/20/78-	10-	21-		-C-	-	-	-	-	11-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	1.88
04-	35.4058-	109.9478-	2-	15-		0-N09035-	09/20/78-	10-	21-		-C-	-	-	-	-	11-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	2.10
04-	35.3797-	109.9372-	2-	15-		0-N09036-	09/20/78-	11-	22-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	2.18
04-	35.4386-	109.9392-	2-	15-		0-N09037-	09/20/78-	12-	24-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.21
04-	35.4408-	109.9314-	2-	15-		0-N09038-	09/20/78-	12-	24-		-C-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.01
04-	35.4736-	109.9364-	2-	15-		0-N09040-	09/20/78-	13-	24-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	3.33
04-	35.4644-	109.9447-	2-	15-		0-N09041-	09/20/78-	14-	24-		-C-	-	-	-	-	12-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.85
04-	35.4992-	109.9644-	2-	15-		0-N09043-	09/20/78-	17-	23-		-C-	-	-	-	-	10-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	2.73
04-	35.4592-	109.8872-	2-	15-		0-N09044-	09/20/78-	18-	23-		-C-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	2.73
04-	35.4867-	109.8514-	2-	15-		0-N09046-	09/20/78-	19-	22-		-C-	-	-	-	-	8-	1-	4-	4-	4-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	3.88
04-	35.5325-	109.8222-	2-	15-		0-N09049-	09/20/78-	11-	22-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	3.00

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

DOE SAMPLE NUMBER						USGS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
04	35.3358	109.9103	2	15	0	N08986	-5	6	-5	28	-20	-15	6	-10	-15	1	61
04	35.3661	109.8764	2	15	0	N08988	-5	-5	-5	19	-20	-15	12	-10	-15	1	40
04	35.3364	109.8692	2	15	0	N08989	-5	-5	-5	43	-20	-15	7	-10	-15	1	42
04	35.3647	109.8331	2	15	0	N08990	-5	-5	-5	21	-20	21	-5	-10	-15	1	25
04	35.3558	109.8078	2	15	0	N08991	-5	-5	-5	21	-20	-15	-5	-10	-15	-1	32
04	35.3447	109.7928	2	15	0	N08992	-5	-5	-5	10	-20	24	-5	-10	-15	1	29
04	35.3150	109.8156	2	15	0	N08994	-5	-5	-5	17	-20	-15	-5	-10	-15	1	29
04	35.2939	109.8169	2	15	0	N08995	-5	-5	-5	25	-20	-15	-5	-10	-15	1	50
04	35.2858	109.8422	2	15	0	N08996	-5	-5	-5	23	-20	-15	-5	-10	-15	1	29
04	35.3019	109.8464	2	15	0	N08997	-5	-5	-5	18	-20	-15	-5	-10	-15	1	27
04	35.2806	109.8661	2	15	0	N08998	-5	-5	-5	23	-20	-15	-5	-10	-15	1	65
04	35.2997	109.7994	2	15	0	N08999	-5	7	-5	25	-20	-15	-5	-10	-15	1	27
04	35.2814	109.8344	2	15	0	N09000	-5	-5	-5	25	-20	22	-5	-10	-15	1	36
04	35.2578	109.8692	2	15	0	N09001	-5	-5	-5	21	-20	-15	-5	-10	-15	1	43
04	35.2508	109.8544	2	15	0	N09002	-5	6	-5	20	-20	-15	-5	-10	-15	2	28
04	35.2986	109.7669	2	15	0	N09003	-5	-5	-5	21	-20	16	7	-10	-15	2	30
04	35.2656	109.7939	2	15	0	N09004	-5	5	-5	25	-20	-15	10	-10	-15	2	23
04	35.2628	109.7861	2	15	0	N09005	-5	5	-5	21	-20	-15	5	-10	-15	2	60
04	35.4608	109.6597	2	15	0	N09006	-5	5	-5	21	-20	-15	7	-10	-15	2	28
04	35.4572	109.6569	2	15	0	N09007	-5	-5	-5	20	-20	-15	-5	-10	-15	2	24
04	35.4600	109.6747	2	15	0	N09008	-5	6	-5	21	-20	-15	7	-10	-15	2	20
04	35.3942	109.7008	2	15	0	N09010	-5	-5	5	23	-20	-15	6	-10	-15	2	44
04	35.3928	109.6986	2	15	0	N09011	-5	-5	-5	19	-20	-15	7	-10	-15	2	25
04	35.4842	109.6781	2	15	0	N09013	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	21
04	35.4442	109.7219	2	15	0	N09015	-5	-5	-5	16	-20	-15	6	-10	-15	2	21
04	35.4336	109.7364	2	15	0	N09016	-5	-5	-5	22	-20	-15	7	-10	-15	2	27
04	35.4558	109.7356	2	15	0	N09017	-5	-5	-5	18	-20	-15	-5	-10	-15	2	30
04	35.4869	109.7478	2	15	0	N09019	-5	-5	-5	16	-20	-15	6	-10	-15	2	25
04	35.4697	109.7822	2	15	0	N09020	-5	-5	-5	13	-20	-15	5	-10	-15	2	26
04	35.4753	109.7881	2	15	0	N09021	-5	-5	-5	14	-20	-15	-5	-10	-15	2	25
04	35.4008	109.7806	2	15	0	N09022	-5	5	-5	21	-20	-15	5	-10	-15	2	81
04	35.3778	109.8017	2	15	0	N09023	-5	-5	-5	30	-20	21	5	-10	-15	2	77
04	35.4178	109.8164	2	15	0	N09024	-5	5	-5	18	-20	-15	8	-10	-15	2	49
04	35.4214	109.8181	2	15	0	N09025	-5	5	-5	25	-20	-15	6	-10	-15	2	60
04	35.4322	109.8278	2	15	0	N09026	-5	-5	-5	13	-20	-15	6	-10	-15	2	41
04	35.3942	109.8564	2	15	0	N09027	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	36
04	35.3908	109.8703	2	15	0	N09029	-5	-5	-5	18	-20	-15	7	-10	-15	2	40
04	35.4081	109.8947	2	15	0	N09030	-5	-5	-5	37	-20	-15	12	-10	-15	3	77
04	35.4211	109.8892	2	15	0	N09032	-5	-5	-5	27	-20	-15	7	-10	-15	2	74
04	35.4117	109.9311	2	15	0	N09033	-5	6	-5	22	-20	15	-5	-10	-15	2	41
04	35.4217	109.9375	2	15	0	N09034	-5	-5	-5	17	-20	-15	-5	-10	-15	2	37
04	35.4058	109.9478	2	15	0	N09035	-5	-5	-5	20	-20	-15	-5	-10	-15	2	29
04	35.3797	109.9372	2	15	0	N09036	-5	5	-5	17	-20	-15	10	-10	21	2	22
04	35.4386	109.9392	2	15	0	N09037	-5	-5	-5	11	-20	-15	11	-10	-15	2	20
04	35.4408	109.9314	2	15	0	N09038	-5	-5	-5	12	-20	-15	6	-10	-15	2	17
04	35.4736	109.9364	2	15	0	N09040	-5	6	-5	37	-20	26	7	-10	-15	2	90
04	35.4644	109.9447	2	15	0	N09041	-5	5	-5	27	-20	18	6	-10	-15	2	77
04	35.4992	109.9644	2	15	0	N09043	-5	-5	-5	25	-20	31	9	-10	-15	2	30
04	35.4592	109.8872	2	15	0	N09044	-5	-5	-5	19	-20	-15	-5	-10	-15	2	24
04	35.4867	109.8514	2	15	0	N09046	-5	5	-5	26	-20	-15	-5	-10	-15	2	27
04	35.5325	109.8222	2	15	0	N09049	-5	-5	-5	23	-20	-15	5	-10	-15	2	94

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
04-	35.3358-	109.9103-	2-	15-	0-	N08986	52920	-0.07	598	48850	53	-62	7.4	40	4.3	4	1.2	22820	11.3	18520	24	0.4
04-	35.3661-	109.8764-	2-	15-	0-	N08988	48040	-0.07	612	32850	58	-62	4.8	29	2.8	4	1.1	15320	12.5	18920	23	0.4
04-	35.3364-	109.8692-	2-	15-	0-	N08989	56650	-0.10	499	48120	72	-72	10.3	60	5.3	4	1.5	28700	7.9	20760	42	0.4
04-	35.3647-	109.8331-	2-	15-	0-	N08990	39990	-0.07	705	85500	64	-71	6.7	47	3.4	5	1.3	20470	17.8	16430	35	0.5
04-	35.3558-	109.8078-	2-	15-	0-	N08991	42940	-0.07	569	84460	43	-63	6.0	44	2.5	4	1.2	17520	11.2	17650	27	0.4
04-	35.3447-	109.7928-	2-	15-	0-	N08992	44990	-0.07	636	55370	52	-64	5.8	33	2.9	4	1.1	17500	12.2	15140	22	0.3
04-	35.3150-	109.8156-	2-	15-	0-	N08994	45080	-0.09	796	52260	70	-71	9.8	61	3.5	4	1.5	29040	21.1	14680	51	0.6
04-	35.2939-	109.8169-	2-	15-	0-	N08995	47600	-0.07	618	60890	58	-72	7.8	41	4.3	4	1.2	21240	10.1	16400	34	0.4
04-	35.2858-	109.8422-	2-	15-	0-	N08996	46510	-0.07	582	73440	63	-74	6.5	41	3.2	5	1.4	17820	8.1	14170	33	0.3
04-	35.3019-	109.8464-	2-	15-	0-	N08997	41330	-0.07	875	71450	78	-68	5.9	42	2.0	5	1.5	15520	10.1	13660	35	0.4
04-	35.2806-	109.8661-	2-	15-	0-	N08998	50290	-0.10	575	42660	77	-73	10.5	63	5.3	5	1.5	31320	19.3	15770	41	0.5
04-	35.2997-	109.7994-	2-	15-	0-	N08999	41130	-0.05	644	67360	60	-86	5.4	37	2.5	4	1.4	16160	8.2	13570	30	0.3
04-	35.2814-	109.8344-	2-	15-	0-	N09000	45910	-0.05	927	54430	81	-72	7.2	51	3.2	5	1.5	21990	21.6	14670	34	0.5
04-	35.2578-	109.8692-	2-	15-	0-	N09001	45170	-0.06	765	51280	76	-72	7.7	49	4.7	5	1.6	26600	18.0	15590	35	0.5
04-	35.2508-	109.8544-	2-	15-	0-	N09002	46890	-0.04	539	69380	65	-94	6.9	41	3.8	5	1.4	18490	6.1	11150	27	0.3
04-	35.2986-	109.7669-	2-	15-	0-	N09003	48080	-0.04	754	19390	50	-74	4.7	34	2.2	4	0.7	19110	13.7	17550	25	0.3
04-	35.2656-	109.7939-	2-	15-	0-	N09004	45570	-0.06	729	16170	108	-73	7.5	54	2.7	5	1.4	31670	41.7	16530	40	0.7
04-	35.2628-	109.7861-	2-	15-	0-	N09005	52740	-0.06	645	32650	68	-70	7.8	46	6.4	4	1.0	23950	10.3	19690	33	0.4
04-	35.4608-	109.6597-	2-	15-	0-	N09006	42850	-0.03	669	12500	46	-70	3.9	31	2.5	3	1.3	14560	11.5	15830	26	0.3
04-	35.4572-	109.6569-	2-	15-	0-	N09007	45850	-0.04	773	18110	47	-73	4.9	35	2.7	4	1.2	16780	12.4	16500	23	0.3
04-	35.4600-	109.6747-	2-	15-	0-	N09008	43270	-0.05	716	12970	58	-66	3.7	36	1.9	4	1.2	16690	17.9	17820	28	0.4
04-	35.3942-	109.7008-	2-	15-	0-	N09010	54200	-0.06	702	33770	56	-73	7.6	45	4.0	3	0.8	20600	7.9	18210	26	0.3
04-	35.3928-	109.6986-	2-	15-	0-	N09011	50370	-0.03	581	17630	48	-78	4.7	30	3.2	3	1.4	16230	10.1	17070	25	0.3
04-	35.4842-	109.6781-	2-	15-	0-	N09013	39730	-0.04	676	9362	72	-72	5.3	48	-1.1	5	1.6	29140	39.4	16340	33	0.6
04-	35.4442-	109.7219-	2-	15-	0-	N09015	43480	-0.04	747	12740	59	-64	4.2	27	2.1	3	1.2	16580	15.7	17750	22	0.4
04-	35.4336-	109.7364-	2-	15-	0-	N09016	47960	-0.05	762	15050	46	-64	4.8	30	2.5	3	0.8	16640	8.4	17650	25	0.3
04-	35.4558-	109.7356-	2-	15-	0-	N09017	47300	-0.05	652	20070	58	-66	4.8	39	2.4	4	1.2	18880	13.8	17880	26	0.3
04-	35.4869-	109.7478-	2-	15-	0-	N09019	43500	-0.05	577	16870	54	-60	5.8	40	2.4	4	1.1	21660	17.7	17270	28	0.4
04-	35.4697-	109.7822-	2-	15-	0-	N09020	48590	-0.04	673	19260	54	-59	4.5	30	2.5	3	1.2	15280	10.3	20150	26	0.3
04-	35.4753-	109.7881-	2-	15-	0-	N09021	46590	-0.04	636	18660	45	-66	4.8	25	2.0	3	1.1	15080	11.3	17170	22	0.3
04-	35.4008-	109.7806-	2-	15-	0-	N09022	58480	-0.07	557	43440	60	-70	8.5	46	4.1	4	1.2	22790	4.6	21470	30	0.3
04-	35.3778-	109.8017-	2-	15-	0-	N09023	54020	-0.07	673	43940	55	-60	8.9	43	4.6	4	1.3	23880	5.1	21530	29	0.3
04-	35.4178-	109.8164-	2-	15-	0-	N09024	48240	-0.03	542	21990	57	-74	5.9	34	3.0	4	1.4	19400	12.0	19250	26	0.3
04-	35.4214-	109.8181-	2-	15-	0-	N09025	50290	-0.03	567	25410	54	-76	5.8	33	3.5	4	0.8	17390	10.3	20580	25	0.3
04-	35.4322-	109.8278-	2-	15-	0-	N09026	50610	-0.03	672	30110	56	-69	5.3	30	2.8	3	1.3	15420	9.2	19560	24	0.3
04-	35.3942-	109.8564-	2-	15-	0-	N09027	42900	-0.03	593	22020	42	-64	4.4	34	2.5	4	0.7	13710	9.2	18680	22	0.3
04-	35.3908-	109.8703-	2-	15-	0-	N09028	51250	-0.06	583	21600	49	-67	4.0	23	2.8	3	1.1	14350	7.1	20250	21	0.3
04-	35.4081-	109.8947-	2-	15-	0-	N09030	69650	-0.10	462	32540	78	-65	11.8	52	6.7	5	1.5	32870	5.0	20680	39	0.4
04-	35.4211-	109.8892-	2-	15-	0-	N09032	61750	-0.08	525	31020	75	-65	8.4	51	5.5	4	1.5	25220	8.1	19560	37	0.3
04-	35.4117-	109.9311-	2-	15-	0-	N09033	45630	-0.06	405	39150	43	-61	5.1	29	2.5	4	0.8	15350	8.0	18540	23	0.3
04-	35.4217-	109.9375-	2-	15-	0-	N09034	44340	-0.07	353	38500	44	-71	4.7	26	2.8	4	1.0	14150	9.8	18660	22	0.3
04-	35.4058-	109.9478-	2-	15-	0-	N09035	39500	-0.07	333	47030	50	-68	6.1	36	2.6	4	1.1	15640	15.2	16480	23	0.4
04-	35.3797-	109.9372-	2-	15-	0-	N09036	41250	-0.06	557	20320	53	-57	6.2	33	1.9	3	1.2	16710	13.5	17790	27	0.4
04-	35.4386-	109.9392-	2-	15-	0-	N09037	34370	-0.05	395	20290	40	-54	3.4	33	-0.8	3	0.9	13660	22.2	16930	19	0.3
04-	35.4408-	109.9314-	2-	15-	0-	N09038	34960	-0.06	326	19280	36	-62	3.5	29	1.3	3	0.7	11780	18.0	15460	16	0.4
04-	35.4736-	109.9364-	2-	15-	0-	N09040	58720	-0.10	418	41790	84	155	11.4	55	6.9	5	1.7	33870	8.1	22350	47	0.4
04-	35.4644-	109.9447-	2-	15-	0-	N09041	56320	-0.07	473	38220	78	-64	8.4	40	4.7	4	1.4	25490	7.9	23650	31	0.4
04-	35.4992-	109.9644-	2-	15-	0-	N09043	44670	-0.07	502	31290	59	-59	9.9	51	2.6	4	1.3	23530	12.2	16790	25	0.3
04-	35.4592-	109.8872-	2-	15-	0-	N09044	41200	-0.05	642	12270	58	-64	4.2	34	1.7	4	1.1	15880	18.1	15920	27	0.4
04-	35.4867-	109.8514-	2-	15-	0-	N09046	39200	-0.08	720	15640	98	-68	9.1	69	2.8	5	2.0	40200	46.6	16710	51	0.7
04-	35.5325-	109.8222-	2-	15-	0-	N09049	60060	-0.07	625	36430	61	-66	7.0	36	3.6	4	1.3	22030	6.5	20850	32	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
04-	35.3358-	109.9103-	2-	15-	0-	N08986	27160	450	6643	65	-2	6.9	4.1	476	-1	-1	9.1	3216	65	2.8	66	0.368
04-	35.3661-	109.8764-	2-	15-	0-	N08988	17820	357	9592	50	-2	5.0	4.2	-188	-1	-1	8.9	3480	47	4.3	-36	0.321
04-	35.3364-	109.8692-	2-	15-	0-	N08989	29850	622	5538	92	-2	11.0	5.7	-234	-1	-1	11.5	4040	56	5.0	99	0.190
04-	35.3647-	109.8331-	2-	15-	0-	N08990	26990	504	5978	49	-2	7.1	5.6	499	-1	-1	9.8	3486	47	4.4	-33	0.278
04-	35.3558-	109.8078-	2-	15-	0-	N08991	31870	445	6182	57	-2	6.5	4.5	686	-1	-1	8.3	3415	41	3.3	51	0.306
04-	35.3447-	109.7928-	2-	15-	0-	N08992	20240	493	8186	45	-2	5.7	3.6	491	-1	-1	7.0	3553	60	2.7	60	0.324
04-	35.3150-	109.8156-	2-	15-	0-	N08994	21560	511	7716	89	-2	8.4	5.9	406	-1	-1	10.7	4084	65	3.7	65	0.247
04-	35.2939-	109.8169-	2-	15-	0-	N08995	21050	460	7677	74	-2	7.5	4.1	357	-1		8.1	2739	56	3.7	37	0.262
04-	35.2858-	109.8422-	2-	15-	0-	N08996	22480	633	8952	48	-2	7.4	6.1	557	-1	-1	8.0	2855	69	3.5	26	0.231
04-	35.3019-	109.8464-	2-	15-	0-	N08997	16720	669	8459	-17	-2	6.3	5.9	447	-1	-1	7.8	3085	68	4.3	41	0.256
04-	35.2806-	109.8661-	2-	15-	0-	N08998	23820	486	9233	77	-2	9.8	6.5	450	-1	-1	13.0	4287	66	4.7	82	0.207
04-	35.2997-	109.7994-	2-	15-	0-	N08999	19130	580	8720	55	-1	6.6	5.5	-240	-1	-1	7.2	2982	54	3.4	43	0.250
04-	35.2814-	109.8344-	2-	15-	0-	N09000	19230	523	8734	63	-1	7.1	6.0	390	-1	-1	11.0	4165	76	4.4	-37	0.264
04-	35.2578-	109.8692-	2-	15-	0-	N09001	20130	492	9075	96	-1	9.3	6.5	433	-1	-1	11.2	3644	63	4.0	78	0.223
04-	35.2508-	109.8544-	2-	15-	0-	N09002	23300	619	9318	55	-1	7.4	6.3	-271	-1	-1	8.1	3173	55	3.7	39	0.222
04-	35.2986-	109.7669-	2-	15-	0-	N09003	11490	292	9510	61	-1	4.9	4.2	242	-1	-1	8.3	2898	51	2.1	81	0.277
04-	35.2656-	109.7939-	2-	15-	0-	N09004	8772	491	10020	50	-1	5.6	7.1	-245	-1	-1	16.0	5545	91	5.2	-56	0.275
04-	35.2628-	109.7861-	2-	15-	0-	N09005	17780	368	9562	81	-1	7.7	5.4	511	-1	-1	11.2	3008	60	3.8	93	0.277
04-	35.4608-	109.6597-	2-	15-	0-	N09006	7012	248	9149	52	-1	4.2	4.9	-174	-1		6.6	2627	35	2.9	33	0.303
04-	35.4572-	109.6569-	2-	15-	0-	N09007	9724	266	9579	53	-1	4.7	4.9	-177	-1	-1	8.4	2698	49	2.9	-33	0.274
04-	35.4600-	109.6747-	2-	15-	0-	N09008	9965	280	9793	52	-1	4.1	4.3	-196	1	-1	7.6	3334	49	3.1	30	0.316
04-	35.3942-	109.7008-	2-	15-	0-	N09010	15440	289	11160	78	-1	6.9	4.7	-210	-1	-1	8.3	2758	49	3.4	59	0.265
04-	35.3928-	109.6986-	2-	15-	0-	N09011	13570	329	9514	59	-1	5.4	5.8	-198	-1	-1	7.2	2893	46	2.3	-18	0.278
04-	35.4842-	109.6781-	2-	15-	0-	N09013	5209	393	8988	57	-1	4.7	5.8	-191	-1	-1	13.0	4809	72	4.6	41	0.277
04-	35.4442-	109.7219-	2-	15-	0-	N09015	6240	269	10290	51	-1	3.9	4.8	285	-1	-1	9.1	3010	45	3.5	-15	0.253
04-	35.4336-	109.7364-	2-	15-	0-	N09016	10880	246	10620	68	-1	5.0	4.1	322	-1	-1	8.2	2075	38	2.9	53	0.195
04-	35.4558-	109.7356-	2-	15-	0-	N09017	11510	373	9739	40	-1	5.2	4.2	248	1	-1	8.5	3239	53	2.9	66	0.295
04-	35.4869-	109.7478-	2-	15-	0-	N09019	10820	344	10020	76	-1	5.2	4.1	395	-1	-1	7.9	3070	54	3.0	47	0.313
04-	35.4697-	109.7822-	2-	15-	0-	N09020	12390	241	11540	58	-1	4.9	3.6	342	-1	-1	6.9	2732	43	1.7	-15	0.341
04-	35.4753-	109.7881-	2-	15-	0-	N09021	11550	250	10980	43	-1	4.5	3.9	342	-1		6.7	2695	41	2.1	58	0.381
04-	35.4008-	109.7806-	2-	15-	0-	N09022	29950	464	7335	46	-2	7.4	5.4	342	-1	-1	8.7	3188	59	3.3	65	0.391
04-	35.3778-	109.8017-	2-	15-	0-	N09023	28210	441	7121	59	-2	7.9	4.6	528	-1	-1	8.5	2858	59	3.0	112	0.394
04-	35.4178-	109.8164-	2-	15-	0-	N09024	19870	360	8216	-19	-1	6.0	3.9	-205	-1	-1	7.4	3491	53	2.8	-32	0.378
04-	35.4214-	109.8181-	2-	15-	0-	N09025	18970	352	8435	67	-1	5.6	4.1	-195	-1	-1	8.6	2846	50	2.6	66	0.327
04-	35.4322-	109.8278-	2-	15-	0-	N09026	11870	289	10260	52	-1	4.9	3.7	397	-1	-1	7.1	2159	47	3.0	36	0.297
04-	35.3942-	109.8564-	2-	15-	0-	N09027	14050	289	9210	47	-1	4.6	3.4	-193	-1		6.9	2673	39	2.4	65	0.341
04-	35.3908-	109.8703-	2-	15-	0-	N09028	13240	275	9133	56	-1	4.6	2.5	303	-1	-1	5.7	2735	47	2.8	52	0.391
04-	35.4081-	109.8947-	2-	15-	0-	N09030	24370	432	5346	76	-2	12.0	6.7	-196	2	-1	13.4	2895	75	2.9	86	0.223
04-	35.4211-	109.8892-	2-	15-	0-	N09032	26920	427	7158	76	-2	9.1	5.6	251	-1	-1	11.4	3100	65	3.3	77	0.241
04-	35.4117-	109.9311-	2-	15-	0-	N09033	17610	423	8287	45	-1	5.5	4.1	-201	-1	-1	6.4	3260	42	2.6	51	0.305
04-	35.4217-	109.9375-	2-	15-	0-	N09034	22220	406	7903	47	-2	5.3	3.6	-196	-1	-1	5.9	3434	36	2.2	69	0.319
04-	35.4058-	109.9478-	2-	15-	0-	N09035	19760	372	8288	56	-2	6.1	4.5	-178	-1	-1	8.5	3014	33	3.8	-63	0.247
04-	35.3797-	109.9372-	2-	15-	0-	N09036	12310	286	9045	62	-1	4.7	4.1	372	-1	-1	7.7	3255	43	2.9	55	0.283
04-	35.4386-	109.9392-	2-	15-	0-	N09037	9249	328	8008	-15	-1	3.7	2.5	-172	-1		6.4	3435	35	2.9	43	0.345
04-	35.4408-	109.9314-	2-	15-	0-	N09038	9116	309	7822	37	-1	3.3	2.8	-161			5.5	3139	32	2.7	-26	0.365
04-	35.4736-	109.9364-	2-	15-	0-	N09040	30830	524	6444	80	-2	10.7	6.6	520	-1	-1	13.6	3696	73	4.1	104	0.245
04-	35.4644-	109.9447-	2-	15-	0-	N09041	24650	451	7021	70	-2	8.3	5.2	433	-1	-1	10.9	2928	63	3.0	93	0.261
04-	35.4992-	109.9644-	2-	15-	0-	N09043	22970	448	7979	53	-2	6.3	5.1	306	-1	-1	7.8	5846	66	2.5	54	0.350
04-	35.4592-	109.8872-	2-	15-	0-	N09044	8048	291	9615	38	-1	3.8	4.7	309		-1	8.1	3624	50	3.0	45	0.337
04-	35.4867-	109.8514-	2-	15-	0-	N09046	8150	483	8551	75	-2	6.6	6.7	252	-1	1	15.1	5577	91	6.0	-91	0.257
04-	35.5325-	109.8222-	2-	15-	0-	N09049	29370	339	9562	60	-2	7.3	4.5	373	-1	-1	9.4	2842	60	3.6	51	0.319

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.5383-	109.8322-	2-	15-	0-	N09050-	09/20/78-	12-	23-		-C-	-		-	-	8-	1-	4-	4-	4-	-1-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	3.13
04-	35.5531-	109.7822-	2-	15-	0-	N09052-	09/20/78-	13-	23-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.83
04-	35.5736-	109.7881-	2-	15-	0-	N09054-	09/20/78-	14-	24-		-C-	-		-	-	10-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	3.07
04-	35.5989-	109.7531-	2-	15-	0-	N09055-	09/20/78-	14-	24-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.28
04-	35.5897-	109.7611-	2-	15-	0-	N09056-	09/20/78-	15-	24-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	4-	1-	-9-	-	-	-	-	2.61
04-	35.5747-	109.8633-	2-	15-	0-	N09057-	09/20/78-	17-	23-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	3.34
04-	35.5844-	109.8217-	2-	15-	0-	N09058-	09/20/78-	17-	22-		-C-	-		-	-	3-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	4.52
04-	35.6047-	109.8011-	2-	15-	0-	N09059-	09/20/78-	18-	22-		-C-	-		-	-	7-	1-	6-	4-	6-	-1-	-2-	3-	3-	4-	1-	-9-	-	-	-	-	3.88
04-	35.7253-	109.9683-	2-	15-	0-	N09062-	09/25/78-	14-	26-		-C-	-		-	-	8-	1-	6-	5-	6-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	1.72
04-	35.7128-	109.9936-	2-	15-	0-	N09063-	09/25/78-	14-	26-		-C-	-		-	-	11-	1-	6-	5-	1-	-1-	-1-	3-	3-	3-	2-	-9-	-	-	-	-	1.86
04-	35.7714-	109.9836-	2-	15-	0-	N09064-	09/25/78-	14-	26-		-C-	-		-	-	5-	1-	6-	5-	1-	-1-	-1-	3-	3-	3-	2-	-9-	-	-	-	-	2.39
04-	35.7775-	109.9608-	2-	15-	0-	N09066-	09/25/78-	15-	26-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	5.14
04-	35.7914-	109.9883-	2-	15-	0-	N09069-	09/25/78-	15-	26-		-C-	-		-	-	13-	1-	6-	4-	1-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	4.05
04-	35.8206-	109.9697-	2-	15-	0-	N09070-	09/25/78-	16-	26-		-C-	-		-	-	5-	1-	6-	4-	1-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	4.87
04-	35.8378-	109.9758-	2-	15-	0-	N09071-	09/25/78-	16-	26-		-C-	-		-	-	7-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	2-	-9-	-	-	-	-	2.74
04-	35.8542-	109.9997-	2-	15-	0-	N09073-	09/25/78-	17-	25-		-C-	-		-	-	10-	1-	6-	5-	6-	-1-	-2-	3-	3-	1-	2-	-9-	-	-	-	-	3.15
04-	35.8867-	109.9556-	2-	15-	0-	N09075-	09/25/78-	17-	24-		-C-	-		-	-	12-	1-	6-	4-	1-	-1-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	4.93
04-	35.8956-	109.9892-	2-	15-	0-	N09076-	09/25/78-	17-	24-		-C-	-		-	-	13-	1-	6-	4-	1-	-1-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	11.04
04-	35.9086-	109.9483-	2-	15-	0-	N09077-	09/25/78-	17-	24-		-C-	-		-	-	31-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	2-	-9-	-	-	-	-	3.20
04-	35.9419-	109.9058-	2-	15-	0-	N09079-	09/25/78-	18-	24-		-C-	-		-	-	12-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	2-	-9-	-	-	-	-	2.94
04-	35.8597-	109.9314-	2-	15-	0-	N09080-	09/25/78-	19-	23-		-C-	-		-	-	17-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	2-	-9-	-	-	-	-	4.15
04-	35.9358-	109.9600-	2-	15-	0-	N09081-	09/26/78-	10-	27-		-C-	-		-	-	10-	1-	6-	4-	1-	-1-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	5.22
04-	35.9514-	109.9350-	2-	15-	0-	N09082-	09/26/78-	10-	27-		-C-	-		-	-	14-	1-	6-	4-	1-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	5.63
04-	35.9569-	109.9336-	2-	15-	0-	N09083-	09/26/78-	10-	27-		-C-	-		-	-	10-	1-	6-	4-	1-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	4.63
04-	35.9628-	109.9108-	2-	15-	0-	N09084-	08/26/78-	12-	30-		-C-	-		-	-	8-	1-	6-	4-	1-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	5.59
04-	35.9658-	109.9089-	2-	15-	0-	N09085-	09/26/78-	12-	30-		-C-	-		-	-	5-	1-	6-	4-	1-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	11.15
04-	35.9389-	109.9944-	2-	15-	0-	N09089-	09/26/78-	13-	31-		-C-	-		-	-	5-	1-	6-	4-	1-	-1-	-2-	3-	3-	1-	1-	-9-	-	-	-	-	6.08
04-	35.7192-	109.8944-	2-	15-	0-	N09091-	09/26/78-	15-	31-		-C-	-		-	-	10-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-9-	-	-	-	-	1.98
04-	35.7253-	109.8939-	2-	15-	0-	N09092-	09/26/78-	15-	31-		-C-	-		-	-	17-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-9-	-	-	-	-	3.65
04-	35.7006-	109.8925-	2-	15-	0-	N09093-	09/26/78-	15-	31-		-C-	-		-	-	13-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-9-	-	-	-	-	2.09
04-	35.6831-	109.8939-	2-	15-	0-	N09094-	09/26/78-	15-	31-		-C-	-		-	-	11-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-9-	-	-	-	-	2.43
04-	35.6689-	109.9000-	2-	15-	0-	N09096-	09/26/78-	15-	31-		-C-	-		-	-	14-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-9-	-	-	-	-	2.26
04-	35.6328-	109.9111-	2-	15-	0-	N09097-	09/26/78-	15-	31-		-C-	-		-	-	7-	1-	6-	5-	6-	-1-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	3.24
04-	35.6267-	109.9019-	2-	15-	0-	N09098-	09/26/78-	16-	30-		-C-	-		-	-	8-	1-	6-	5-	6-	-1-	-2-	3-	3-	1-	1-	-9-	-	-	-	-	2.32
04-	35.6122-	109.9131-	2-	15-	0-	N09099-	09/26/78-	16-	31-		-C-	-		-	-	20-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-9-	-	-	-	-	2.73
04-	35.5944-	109.9139-	2-	15-	0-	N09100-	09/26/78-	16-	31-		-C-	-		-	-	14-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-9-	-	-	-	-	3.19
04-	35.8464-	108.7600-	2-	15-	0-	N09102-	09/18/78-	14-	28-		-	-		-	-	5-	1-	6-	4-	6-	-1-	-2-	3-	3-	1-	2-	-1-	-	-	-	-	3.22
04-	35.8433-	108.7592-	2-	15-	0-	N09103-	09/18/78-	14-	28-		-	-		-	-	6-	1-	6-	4-	6-	-1-	-2-	3-	3-	1-	2-	-1-	-	-	-	-	3.17
04-	35.8611-	108.7561-	2-	15-	0-	N09104-	09/18/78-	15-	28-		-	-		-	-	7-	1-	6-	4-	6-	-1-	-2-	2-	2-	1-	2-	-1-	-	-	-	-	3.00
04-	35.8694-	108.7725-	2-	15-	0-	N09105-	09/18/78-	15-	28-		-	-		-	-	8-	1-	6-	5-	6-	-1-	-2-	1-	3-	3-	2-	-1-	-	-	-	-	3.55
04-	35.8800-	108.7925-	2-	15-	0-	N09106-	09/18/78-	15-	27-		-	-		-	-	4-	1-	6-	4-	6-	-1-	-2-	1-	4-	3-	2-	-1-	-	-	-	-	2.61
04-	35.8942-	108.7961-	2-	15-	0-	N09107-	09/18/78-	16-	26-		-	-		-	-	7-	1-	6-	4-	6-	-1-	-2-	1-	4-	3-	2-	-1-	-	-	-	-	2.36
04-	35.9239-	108.8169-	2-	12-	0-	N09111-	09/18/78-	17-	23-	14.0-	-	-	7.3-	205-		6-	1-	6-	4-	6-	3-	3-	1-	2-	1-	3-	2-	2-	-1-	-	-	-	-	3.31
04-	35.9250-	108.8228-	2-	12-	0-	N09112-	09/18/78-	17-	23-	13.0-	-	-	7.1-	211-		6-	1-	6-	4-	6-	2-	2-	1-	2-	1-	3-	2-	2-	-1-	-	-	-	-	7.15
04-	35.6822-	108.7772-	2-	15-	0-	N09113-	09/19/78-	9-	20-		-	-		-	-	10-	1-	6-	4-	6-	-1-	-2-	4-	3-	1-	3-	-1-	-	-	-	-	3.30
04-	35.6853-	108.7967-	2-	15-	0-	N09114-	09/19/78-	9-	21-		-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	2-	1-	3-	-1-	-	-	-	-	3.28
04-	35.6967-	108.8278-	2-	15-	0-	N09116-	09/19/78-	10-	22-		-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	3-	-1-	-	-	-	-	3.51
04-	35.6981-	108.8281-	2-	15-	0-	N09117-	09/19/78-	10-	22-		-	-		-	-	10-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	3-	-1-	-	-	-	-	3.67
04-	35.7081-	108.8758-	2-	15-	0-	N09119-	09/19/78-	11-	23-		-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	1-	3-	2-	2-	-1-	-	-	-	-	4.94
04-	35.7175-	108.8108-	2-	15-	0-	N09120-	09/19/78-	11-	23-		-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	2-	-1-	-	-	-	-	7.29
04-	35.7119-	108.7886-	2-	15-	0-	N09121-	09/19/78-	12-	23-		-	-		-	-	6-	1-	6-	4-	6-	-1-	-2-	3-	2-	1-	2-	-1-	-	-	-	-	3.90

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
04-	35.5383-	109.8322-	2-	15-	0-	N09050	-5	5	-5	14	-20	-15	-5	-10	-15	2	24
04-	35.5531-	109.7822-	2-	15-	0-	N09052	-5	5	-5	24	-20	-15	6	-10	-15	2	60
04-	35.5736-	109.7881-	2-	15-	0-	N09054	-5	-5	-5	13	-20	-15	-5	-10	-15	2	20
04-	35.5889-	109.7531-	2-	15-	0-	N09055	-5	5	-5	-10	-20	-15	8	-10	-15	2	25
04-	35.5897-	109.7611-	2-	15-	0-	N09056	-5	-5	-5	21	-20	-15	-5	-10	-15	2	21
04-	35.5747-	109.8633-	2-	15-	0-	N09057	-5	-5	-5	22	-20	-15	6	-10	-15	2	50
04-	35.5844-	109.8217-	2-	15-	0-	N09058	-5	-5	-5	34	-20	-15	6	-10	-15	3	137
04-	35.6047-	109.8011-	2-	15-	0-	N09059	-5	-5	-5	-10	-20	-15	5	-10	-15	2	84
04-	35.7253-	109.9683-	2-	15-	0-	N09062	-5	6	-5	14	-20	-15	9	-10	-15	2	32
04-	35.7128-	109.9936-	2-	15-	0-	N09063	-5	-5	-5	17	-20	-15	6	-10	-15	2	30
04-	35.7714-	109.9836-	2-	15-	0-	N09064	-5	-5	-5	29	-20	22	6	-10	-15	2	28
04-	35.7775-	109.9608-	2-	15-	0-	N09066	-5	10	-5	20	-20	-15	8	-10	-15	2	24
04-	35.7914-	109.9883-	2-	15-	0-	N09068	-5	6	-5	14	-20	-15	5	-10	-15	2	24
04-	35.8206-	109.9697-	2-	15-	0-	N09070	-5	7	-5	18	-20	-15	10	-10	-15	2	21
04-	35.8378-	109.9758-	2-	15-	0-	N09071	-5	-5	-5	33	-20	-15	6	-10	-15	2	29
04-	35.8542-	109.9997-	2-	15-	0-	N09073	-5	-5	-5	10	-20	-15	12	-10	-15	2	20
04-	35.8867-	109.9556-	2-	15-	0-	N09075	-5	-5	-5	16	-20	-15	-5	-10	-15	3	22
04-	35.8956-	109.9892-	2-	15-	0-	N09076	-5	16	-5	12	-20	-15	8	-10	-15	2	16
04-	35.9086-	109.9483-	2-	15-	0-	N09077	-5	-5	-5	26	-20	-15	13	-10	-15	3	28
04-	35.9419-	109.9058-	2-	15-	0-	N09079	-5	-5	-5	36	-20	-15	-5	-10	-15	2	22
04-	35.8597-	109.9314-	2-	15-	0-	N09080	-5	-5	-5	33	-20	16	8	-10	-15	3	34
04-	35.9358-	109.9600-	2-	15-	0-	N09081	-5	5	-5	16	-20	-15	-5	-10	-15	2	18
04-	35.9514-	109.9350-	2-	15-	0-	N09082	-5	6	-5	20	-20	-15	16	-10	-15	2	22
04-	35.9569-	109.9336-	2-	15-	0-	N09083	-5	-5	-5	16	-20	-15	9	-10	-15	2	18
04-	35.9628-	109.9108-	2-	15-	0-	N09084	-5	-5	-5	12	-20	-15	12	-10	-15	2	14
04-	35.9658-	109.9089-	2-	15-	0-	N09085	-5	13	-5	-10	-20	-15	12	-10	-15	2	17
04-	35.9389-	109.9944-	2-	15-	0-	N09089	-5	7	-5	14	-20	-15	12	-10	-15	2	15
04-	35.7192-	109.8944-	2-	15-	0-	N09091	-5	-5	-5	16	-20	-15	12	-10	-15	2	39
04-	35.7 53-	109.8939-	2-	15-	0-	N09092	-5	6	-5	36	-20	15	9	-10	-15	3	48
04-	35.7006-	109.8925-	2-	15-	0-	N09093	-5	-5	-5	18	-20	-15	10	-10	-15	2	36
04-	35.6931-	109.8939-	2-	15-	0-	N09094	-5	-5	-5	22	-20	-15	-5	-10	-15	2	30
04-	35.6689-	109.9000-	2-	15-	0-	N09096	-5	7	-5	27	-20	-15	8	-10	-15	2	36
04-	35.6328-	109.9111-	2-	15-	0-	N09097	-5	-5	-5	18	-20	-15	9	-10	-15	-1	1
04-	35.6267-	109.9019-	2-	15-	0-	N09098	-5	-5	-5	21	-20	-15	7	-10	-15	3	28
04-	35.6122-	109.9131-	2-	15-	0-	N09099	-5	-5	-5	27	-20	-15	5	-10	-15	3	65
04-	35.5944-	109.9139-	2-	15-	0-	N09100	-5	-5	-5	22	-20	18	14	-10	-15	3	49
04-	35.8464-	108.7600-	2-	15-	0-	N09102	-5	-5	-5	17	-20	-15	11	-10	-15	1	21
04-	35.8433-	108.7592-	2-	15-	0-	N09103	-5	-5	-5	30	-20	-15	40	-10	-15	1	26
04-	35.8611-	108.7561-	2-	15-	0-	N09104	-5	-5	-5	21	-20	-15	19	-10	-15	1	18
04-	35.8694-	108.7725-	2-	15-	0-	N09105	-5	6	-5	21	-20	15	8	-10	-15	1	27
04-	35.8800-	108.7925-	2-	15-	0-	N09106	-5	-5	-5	14	-20	-15	6	-10	-15	1	19
04-	35.8942-	108.7961-	2-	15-	0-	N09107	-5	-5	-5	21	-20	-15	-5	-10	-15	1	26
04-	35.9239-	108.8169-	2-	12-	0-	N09111	-5	-5	-5	21	-20	-15	10	-10	-15	1	29
04-	35.9250-	108.8228-	2-	12-	0-	N09112	-5	-5	-5	-10	28	-15	16	-10	-15	-1	12
04-	35.6822-	108.7772-	2-	15-	0-	N09113	-5	-5	-5	17	-20	-15	17	-10	-15	2	26
04-	35.6853-	108.7967-	2-	15-	0-	N09114	-5	-5	-5	22	-20	-15	15	-10	-15	1	23
04-	35.6967-	108.8278-	2-	15-	0-	N09116	-5	-5	-5	21	-20	-15	12	-10	-15	1	19
04-	35.6981-	108.8281-	2-	15-	0-	N09117	-5	7	-5	23	-20	-15	15	-10	-15	1	32
04-	35.7081-	108.8758-	2-	15-	0-	N09119	-5	-5	-5	16	-20	19	11	-10	-15	2	28
04-	35.7175-	108.8108-	2-	15-	0-	N09120	-5	-5	-5	17	-20	-15	13	-10	-15	1	25
04-	35.7119-	108.7886-	2-	15-	0-	N09121	-5	-5	-5	20	-20	-15	8	-10	-15	2	33

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
04-	35.5383-	109.8322-2-	15-	0-	N09050		41360	-0.06	690	14730	66	-57	4.9	38	1.7	4	1.4	21480	25.7	16870	30	0.5
04-	35.5531-	109.7822-2-	15-	0-	N09052		49380	-0.06	676	25510	50	-71	5.4	36	1.7	4	1.2	18510	11.3	18500	26	0.3
04-	35.5736-	109.7881-2-	15-	0-	N09054		40660	-0.07	684	14970	86	-66	6.5	52	2.2	5	1.8	28440	32.9	18590	41	0.7
04-	35.5889-	109.7531-2-	15-	0-	N09055		45430	-0.05	711	17640	69	-58	5.0	39	2.4	3	1.3	18220	17.1	16830	35	0.4
04-	35.5897-	109.7611-2-	15-	0-	N09056		39290	-0.05	672	12430	57	-55	4.7	28	2.1	4	1.1	17340	20.4	17400	30	0.4
04-	35.5747-	109.8633-2-	15-	0-	N09057		54150	-0.07	574	24720	56	-66	5.2	32	3.4	4	1.1	16450	7.9	22700	25	0.4
04-	35.5844-	109.8217-2-	15-	0-	N09058		61250	-0.10	562	49640	82	-66	11.5	53	6.6	4	1.6	33160	6.6	24030	39	0.4
04-	35.6047-	109.8011-2-	15-	0-	N09059		54140	-0.06	625	31410	56	-64	5.4	27	3.3	3	1.3	19440	7.1	22350	34	0.2
04-	35.7253-	109.9683-2-	15-	0-	N09062		50250	-0.05	650	22600	45	-61	4.0	19	2.0	3	1.1	13130	6.7	19430	23	0.2
04-	35.7128-	109.9936-2-	15-	0-	N09063		54980	-0.06	739	23830	49	-72	3.7	19	1.8	3	1.1	12710	6.4	23160	24	0.2
04-	35.7714-	109.9836-2-	15-	0-	N09064		50100	-0.08	1141	49140	73	-73	11.6	49	3.2	4	2.1	28570	11.2	17650	39	0.4
04-	35.7775-	109.9608-2-	15-	0-	N09066		49590	-0.07	548	11850	121	-56	9.1	57	3.1	6	1.7	30760	38.5	15740	57	0.8
04-	35.7914-	109.9883-2-	15-	0-	N09068		41940	-0.06	623	8784	89	-56	5.2	34	2.3	6	1.4	21210	32.3	18860	41	0.6
04-	35.8206-	109.9697-2-	15-	0-	N09070		52550	-0.07	630	8244	110	-60	4.2	29	2.4	7	1.2	13920	28.2	22950	48	0.6
04-	35.8378-	109.9758-2-	15-	0-	N09071		62410	-0.09	591	13720	72	-60	8.8	46	6.9	5	1.5	25130	12.1	16980	40	0.6
04-	35.8542-	109.9997-2-	15-	0-	N09073		47670	-0.06	587	10030	69	-52	5.5	32	4.0	4	1.2	16420	19.3	19910	34	0.6
04-	35.8867-	109.9556-2-	15-	0-	N09075		56280	-0.06	631	5744	83	-42	4.9	25	3.7	7	1.2	12450	21.6	25560	37	0.7
04-	35.8956-	109.9892-2-	15-	0-	N09076		49160	-0.08	589	4056	290	-50	8.3	34	3.0	15	1.9	16660	82.7	25410	129	1.7
04-	35.9086-	109.9483-2-	15-	0-	N09077		64960	-0.09	564	5486	104	-63	8.4	53	6.8	6	1.7	23640	14.0	22780	48	0.6
04-	35.9419-	109.9058-2-	15-	0-	N09079		46200	-0.06	506	4768	65	-59	6.6	44	3.7	4	1.3	18450	16.6	18070	24	0.5
04-	35.8597-	109.9314-2-	15-	0-	N09080		78820	-0.08	617	8436	83	-55	8.8	44	6.4	7	1.5	21920	7.4	19060	39	0.4
04-	35.9358-	109.9600-2-	15-	0-	N09081		41540	-0.07	613	4076	89	-57	3.9	29	2.3	7	1.3	12940	33.9	22140	31	0.7
04-	35.9514-	109.9350-2-	15-	0-	N09082		61500	-0.10	586	6166	176	85	8.4	58	5.6	7	1.9	26820	36.2	23740	79	0.9
04-	35.9569-	109.9336-2-	15-	0-	N09083		51410	-0.07	580	6324	88	-53	7.0	34	3.4	6	1.3	18130	30.3	23020	35	0.7
04-	35.9628-	109.9108-2-	15-	0-	N09084		45120	-0.06	598	4119	80	-48	4.3	26	2.4	7	1.3	12690	34.5	22540	36	0.7
04-	35.9658-	109.9089-2-	15-	0-	N09085		44460	-0.08	618	3220	233	-52	5.9	36	2.6	14	1.9	16440	81.6	20560	100	1.6
04-	35.9389-	109.9944-2-	15-	0-	N09089		44560	-0.08	570	8336	146	-56	7.8	41	4.2	8	1.9	23610	56.1	20380	68	1.1
04-	35.7192-	109.8944-2-	15-	0-	N09091		54530	-0.06	750	46460	61	-63	6.5	33	3.8	3	1.4	20550	4.9	17130	32	0.3
04-	35.7253-	109.8939-2-	15-	0-	N09092		80050	-0.10	552	62500	82	-60	10.3	47	6.5	6	1.4	32390	4.5	18050	42	0.4
04-	35.7006-	109.8925-2-	15-	0-	N09093		54630	-0.07	623	23780	55	-70	4.5	25	2.5	4	1.1	14600	6.3	19020	25	0.3
04-	35.6831-	109.8939-2-	15-	0-	N09094		48510	-0.07	644	22150	78	-68	6.6	40	3.4	4	1.7	24940	17.0	20170	39	0.4
04-	35.6689-	109.9000-2-	15-	0-	N09096		56190	-0.08	773	25020	65	-76	6.6	38	3.9	4	0.9	20300	8.5	19810	30	0.3
04-	35.6328-	109.9111-2-	15-	0-	N09097		47070	-0.03	601	22460	65	-81	6.0	37	2.0	4	1.4	22450	16.7	18180	31	0.4
04-	35.6267-	109.9019-2-	15-	0-	N09098		48350	-0.03	625	18030	60	-66	3.9	28	2.7	3	1.4	15850	9.8	18090	24	0.3
04-	35.6122-	109.9131-2-	15-	0-	N09099		60630	-0.04	650	27660	69	-65	8.0	40	6.0	4	1.4	24480	6.8	23930	33	0.3
04-	35.5944-	109.9139-2-	15-	0-	N09100		63260	-0.03	660	34590	71	-74	8.0	43	4.6	5	1.4	23160	5.2	20580	32	0.3
04-	35.8464-	108.7600-2-	15-	0-	N09102		50460	-0.03	763	7962	61	-88	5.7	29	3.1	5	0.7	15570	13.4	20220	27	0.4
04-	35.8433-	108.7592-2-	15-	0-	N09103		56590	-0.03	756	13610	77	-74	5.5	27	6.0	5	1.3	18740	14.6	18710	28	0.4
04-	35.8611-	108.7561-2-	15-	0-	N09104		47990	-0.03	696	9594	64	-68	5.0	33	4.8	4	0.9	15740	18.6	20630	30	0.4
04-	35.8694-	108.7725-2-	15-	0-	N09105		43210	-0.03	618	13180	66	-75	3.6	41	5.1	5	1.3	15830	27.8	15780	27	0.6
04-	35.8800-	108.7925-2-	15-	0-	N09106		42580	-0.03	541	5665	44	-72	3.7	28	3.6	4	1.1	11020	11.2	19460	22	0.3
04-	35.8942-	108.7961-2-	15-	0-	N09107		49060	-0.03	707	8322	58	-73	3.7	31	5.0	4	1.2	13430	14.6	18320	24	0.4
04-	35.9239-	108.8169-2-	12-	0-	N09111		42550	-0.03	629	7833	74	-73	3.7	36	5.9	4	1.0	16680	34.7	20010	36	0.7
04-	35.9250-	108.8228-2-	12-	0-	N09112		36120	-0.03	506	5758	159	-90	2.7	56	3.7	780	1.9	19750	94.3	15440	67	1.2
04-	35.6822-	108.7772-2-	15-	0-	N09113		65150	-0.03	701	9777	63	-91	7.4	30	4.7	5	1.4	23020	8.4	19040	32	0.4
04-	35.6853-	108.7967-2-	15-	0-	N09114		61800	-0.04	839	13440	81	-90	6.7	29	3.4	5	1.5	19710	7.4	20800	31	0.4
04-	35.6967-	108.8278-2-	15-	0-	N09116		50160	-0.03	977	4123	91	-77	7.3	36	3.7	5	0.7	16170	21.4	22730	40	0.6
04-	35.6981-	108.8281-2-	15-	0-	N09117		61700	-0.09	695	11360	70	-81	6.4	33	3.7	6	1.2	21890	16.0	20130	34	0.4
04-	35.7081-	108.8758-2-	15-	0-	N09119		70550	-0.11	964	13360	127	-96	12.5	59	4.9	6	2.3	39530	40.1	18970	71	0.8
04-	35.7175-	108.8108-2-	15-	0-	N09120		54340	-0.09	1251	8498	146	-72	7.6	71	3.7	7	2.5	24390	74.9	19200	68	1.3
04-	35.7119-	108.7886-2-	15-	0-	N09121		72410	-0.09	757	12180	76	-76	8.6	31	4.9	6	1.5	24590	6.2	20790	32	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
04-35.5383-109.8322-2-15-						0-N09050	9638	340	9463	52	-1	4.4	5.3	-174	-1	-1	9.7	4687	56	3.5	47	0.323
04-35.5531-109.7822-2-15-						0-N09052	14750	317	10880	45	-1	4.8	3.7	-179	-1	-1	7.3	3553	55	2.6	-26	0.388
04-35.5736-109.7881-2-15-						0-N09054	9864	326	9397	82	-2	5.8	6.7	311	-1	-1	14.5	4078	61	5.0	59	0.212
04-35.5889-109.7531-2-15-						0-N09055	10930	266	9731	64	-1	4.9	4.9	335	-1	-1	8.9	3173	45	2.5	55	0.256
04-35.5897-109.7611-2-15-						0-N09056	5646	296	9289	60	-1	4.0	4.3	-163	-1		9.0	3809	55	3.6	-41	0.290
04-35.5747-109.8633-2-15-						0-N09057	18730	322	8272	64	-2	5.6	3.9	-175	-1	-1	8.1	2973	56	3.5	59	0.412
04-35.5844-109.8217-2-15-						0-N09058	42090	495	5643	98	-2	11.2	6.5	-212	-1	-1	12.4	3634	86	3.4	-100	0.365
04-35.6047-109.8011-2-15-						0-N09059	24810	290	10380	71	-1	6.2	4.1	446	-1	-1	7.6	2225	56	3.5	78	0.511
04-35.7253-109.9683-2-15-						0-N09062	10200	224	11720	46	-1	4.1	3.2	336			5.8	2456	38	2.3	48	0.297
04-35.7128-109.9936-2-15-						0-N09063	11460	215	12390	56	-1	4.2	3.8	421	-1	-1	6.1	2587	40	-1.3	56	0.305
04-35.7714-109.9836-2-15-						0-N09064	15190	362	9005	-24	-2	7.7	7.0	345	-1	-1	10.2	4442	54	3.1	91	0.234
04-35.7775-109.9608-2-15-						0-N09066	8525	407	7352	72	-2	7.5	8.0	-197	2	-1	20.8	6020	82	6.7	71	0.247
04-35.7914-109.9883-2-15-						0-N09068	6485	347	8608	58	-1	4.5	8.3	-176	2	-1	16.5	4915	61	5.4	63	0.245
04-35.8206-109.9697-2-15-						0-N09070	6590	271	7078	63	-2	5.1	8.2	257	-1	-1	19.5	4744	53	5.0	65	0.250
04-35.8378-109.9758-2-15-						0-N09071	15390	307	6562	80	-2	10.2	7.1	-170	2	-1	13.4	3836	61	4.9	-79	0.204
04-35.8542-109.9997-2-15-						0-N09073	6310	220	6970	65	-1	6.0	5.2	-158	-1	-1	11.6	3692	45	4.9	-78	0.272
04-35.8867-109.9556-2-15-						0-N09075	5933	203	4656	87	-1	6.2	6.7	-144	2	-1	16.6	4411	45	5.8	79	0.297
04-35.8956-109.9892-2-15-						0-N09076	6378	390	4338	68	-2	6.4	24.1	-173	4	2	61.1	7287	55	14.0	91	0.181
04-35.9086-109.9483-2-15-						0-N09077	12290	319	6867	110	-2	10.0	8.2	-175	1	-1	19.4	3978	54	5.3	98	0.165
04-35.9419-109.9058-2-15-						0-N09079	8620	426	8378	72	-2	6.6	5.1	-200	-1	-1	10.6	3506	43	4.1	60	0.277
04-35.8597-109.9314-2-15-						0-N09080	11510	280	5464	68	-2	10.7	6.6	-186	-1	-1	15.0	4908	81	5.4	-14	0.277
04-35.9358-109.9600-2-15-						0-N09081	4709	273	6557	55	-1	4.5	6.0	-151	-1	-1	17.0	4648	47	5.5	-43	0.307
04-35.9514-109.9350-2-15-						0-N09082	8415	333	4262	110	-2	10.0	13.1	-163	2	-1	35.2	4075	62	6.8	-60	0.160
04-35.9569-109.9336-2-15-						0-N09083	8037	291	6535	95	-2	7.4	6.5	-177	-1	-1	17.2	4018	50	5.8	-49	0.269
04-35.9628-109.9108-2-15-						0-N09084	4684	262	6183	69	-1	5.1	6.0	-155	1	-1	16.6	4525	46	6.7	88	0.337
04-35.9658-109.9089-2-15-						0-N09085	7101	429	4715	63	-2	6.0	16.8	-179	3	2	50.4	7333	49	13.5	-56	0.221
04-35.9389-109.9944-2-15-						0-N09089	6366	336	5592	74	-2	7.4	11.3	-156	3	-1	33.6	4849	56	9.6	105	0.181
04-35.7192-109.8944-2-15-						0-N09091	14770	343	8760	68	-2	7.0	5.2	366	-1	-1	8.1	2425	51	3.5	61	0.244
04-35.7253-109.8939-2-15-						0-N09092	26050	433	3493	56	-2	11.4	5.7	343	-1	-1	13.3	4672	96	3.8	124	0.274
04-35.7006-109.8925-2-15-						0-N09093	14160	293	9647	53	-1	5.1	3.8	315	-1	-1	7.1	2759	50	3.0	66	0.294
04-35.6831-109.8939-2-15-						0-N09094	10170	309	9879	58	-2	6.6	6.2	-162	-1	-1	11.1	3402	53	4.1	102	0.219
04-35.6689-109.9000-2-15-						0-N09096	15410	364	9035	-19	-1	6.6	5.1	-203	-1	-1	8.9	3258	61	2.5	84	0.254
04-35.6328-109.9111-2-15-						0-N09097	11020	333	11520	66	-1	5.0	5.3	-198	-1	-1	9.8	4328	65	2.9	36	0.331
04-35.6267-109.9019-2-15-						0-N09098	9574	233	10900	65	-1	4.4	4.6	-183	-1	-1	7.3	2686	46	2.3	46	0.318
04-35.6122-109.9131-2-15-						0-N09099	19530	295	8105	94	-1	8.1	5.2	422	-1	-1	11.1	2704	56	2.6	113	0.246
04-35.5944-109.9139-2-15-						0-N09100	16980	330	6618	64	-1	8.3	5.2	-210	-1	-1	9.1	3210	63	2.6	-32	0.351
04-35.8464-108.7600-2-15-						0-N09102	5793	355	12790	53	-1	5.5	4.6	-214	-1	-1	11.5	3844	45	3.0	30	0.280
04-35.8433-108.7592-2-15-						0-N09103	9799	363	10920	62	-1	6.4	5.3	-228	-1	-1	11.8	3485	56	3.6	132	0.269
04-35.8611-108.7561-2-15-						0-N09104	6134	333	10900	117	1	5.6	5.2	-203	-1	-1	10.6	2992	37	3.4	45	0.283
04-35.8694-108.7725-2-15-						0-N09105	6396	341	9937	58	1	5.3	4.9	-193	-1	-1	10.9	4278	43	4.5	24	0.326
04-35.8800-108.7925-2-15-						0-N09106	10100	246	9395	57	-1	4.3	3.7	-174	-1	-1	7.3	2535	33	2.5	33	0.358
04-35.8942-108.7961-2-15-						0-N09107	8211	275	11470	57	-1	4.6	5.0	-209	-1	-1	8.5	2984	40	3.0	-27	0.278
04-35.9239-108.8169-2-12-						0-N09111	4493	456	11250	91	-1	5.9	6.1	-230	2	-1	14.1	4992	35	4.2	55	0.235
04-35.9250-108.8228-2-12-						0-N09112	-3378	964	9956	67	-1	6.2	10.4	-292	4	1	31.2	10080	50	8.4	29	0.229
04-35.6822-108.7772-2-15-						0-N09113	14260	366	11720	55	-1	7.7	5.5	-222	-1	-1	12.7	3239	67	3.4	100	0.260
04-35.6853-108.7967-2-15-						0-N09114	9053	424	14640	86	2	6.6	6.0	-261	-1	-1	12.4	3824	61	3.0	57	0.265
04-35.6967-108.8278-2-15-						0-N09116	4757	259	14610	110	1	5.9	6.6	-208	-1	-1	15.9	3929	42	4.8	37	0.221
04-35.6981-108.8281-2-15-						0-N09117	12130	430	11720	53	-2	6.8	6.0	-210	-1	-1	12.9	5011	71	4.0	62	0.284
04-35.7081-108.8758-2-15-						0-N09119	9372	537	16130	98	-3	12.7	9.1	-233	2	-1	22.5	6340	109	8.1	106	0.220
04-35.7175-108.8108-2-15-						0-N09120	7106	510	12230	78	-2	9.4	9.6	-233	2	-1	25.9	7298	74	9.1	114	0.281
04-35.7119-108.7886-2-15-						0-N09121	12400	405	12370	61	-2	8.7	6.5	-230	-1	-1	12.5	4669	79	4.0	-29	0.312

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-35.7333-108.7842-2-15-						0-N09122-09/19/78-12-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.66
04-35.7492-108.7792-2-15-						0-N09123-09/19/78-12-			24-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.54
04-35.7303-108.8475-2-15-						0-N09124-09/19/78-12-			24-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.92
04-35.7600-108.8150-2-15-						0-N09126-09/19/78-13-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.39
04-35.8156-108.8764-2-15-						0-N09128-09/19/78-14-			24-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-2-2-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.82
04-35.8381-108.8828-2-15-						0-N09129-09/19/78-14-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.63
04-35.8458-108.8842-2-15-						0-N09130-09/19/78-14-			24-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.26
04-35.8436-108.8875-2-15-						0-N09131-09/19/78-14-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.54
04-35.8489-108.8969-2-15-						0-N09132-09/19/78-15-			24-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.98
04-35.8844-108.8853-2-15-						0-N09133-09/19/78-15-			24-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-1-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.64
04-35.9092-108.8931-2-15-						0-N09135-09/19/78-15-			24-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.03
04-35.9386-108.9147-2-12-						0-N09136-09/19/78-16-			24-15.0-		-	-	6.2-	240-	-	9-1-6-4-6-2-2-3-2-3-3-3-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.80
04-35.9092-108.9208-2-15-						0-N09137-09/19/78-16-			23-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.93
04-35.9475-108.9117-2-12-						0-N09138-09/19/78-16-			23-14.0-		-	-	6.8-	300-	-	7-1-6-4-6-3-3-1-2-1-3-3-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.27
04-35.9606-108.9175-2-12-						0-N09139-09/19/78-17-			23-14.0-		-	-	6.8-	150-	-	7-1-6-4-6-3-2-1-2-1-3-3-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.91
04-35.8386-108.8586-2-15-						0-N09140-09/19/78-17-			23-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.57
04-35.7686-108.9025-2-15-						0-N09142-09/20/78-	9-		20-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.58
04-35.7669-108.8972-2-15-						0-N09143-09/20/78-	9-		20-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.82
04-35.7786-108.8686-2-15-						0-N09145-09/20/78-	9-		21-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-1-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.84
04-35.7947-108.8808-2-15-						0-N09146-09/20/78-10-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.65
04-35.7931-108.8958-2-15-						0-N09147-09/20/78-10-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.86
04-35.7906-108.9075-2-15-						0-N09148-09/20/78-11-			25-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.71
04-35.7889-108.9211-2-15-						0-N09149-09/20/78-11-			25-		-	-	-	-	-	11-1-6-4-6-	-1-	-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.84
04-35.7853-108.9264-2-15-						0-N09150-09/20/78-11-			25-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.68
04-35.7725-108.8539-2-15-						0-N09151-09/20/78-12-			26-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.07
04-35.7733-108.8636-2-15-						0-N09152-09/20/78-12-			26-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.21
04-35.8156-108.8144-2-15-						0-N09153-09/20/78-12-			26-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.08
04-35.8281-108.7992-2-15-						0-N09155-09/20/78-13-			27-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-2-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.51
04-35.8308-108.7875-2-15-						0-N09156-09/20/78-13-			26-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.89
04-35.6997-108.9922-2-15-						0-N09158-09/20/78-15-			27-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.94
04-35.6922-108.9594-2-15-						0-N09159-09/20/78-15-			27-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.43
04-35.6950-108.9342-2-15-						0-N09160-09/20/78-15-			26-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.04
04-35.7378-108.8861-2-15-						0-N09161-09/20/78-16-			24-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.33
04-35.7161-108.9492-2-15-						0-N09162-09/20/78-17-			26-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.83
04-35.7286-108.9894-2-15-						0-N09163-09/20/78-17-			25-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-1-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
04-35.7306-108.9878-2-15-						0-N09164-09/20/78-17-			25-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.25
04-35.9367-108.9767-2-15-						0-N09165-09/20/78-18-			24-		-	-	-	-	-	4-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.55
04-35.9753-108.9361-2-15-						0-N09167-09/21/78-	9-		23-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-4-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.19
04-35.9833-108.9358-2-15-						0-N09168-09/21/78-	9-		23-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-4-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66
04-35.9836-108.9269-2-15-						0-N09169-09/21/78-10-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.22
04-35.9822-108.9264-2-15-						0-N09170-09/21/78-10-			24-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.38
04-35.9925-108.9742-2-15-						0-N09171-09/21/78-10-			25-		-	-	-	-	-	3-1-6-4-6-	-1-	-2-3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.84
04-35.9928-108.9803-2-15-						0-N09173-09/21/78-10-			25-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.89
04-35.9539-108.9933-2-15-						0-N09174-09/21/78-11-			26-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
04-35.9494-108.9914-2-15-						0-N09175-09/21/78-11-			26-		-	-	-	-	-	4-1-6-4-6-	-1-	-2-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.73
04-35.9347-108.9439-2-15-						0-N09176-09/21/78-11-			26-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60
04-35.8683-108.9456-2-15-						0-N09178-09/21/78-12-			26-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40
04-35.7928-108.9986-2-15-						0-N09179-09/21/78-12-			26-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
04-35.6647-108.9167-2-15-						0-N09181-09/21/78-13-			27-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.04
04-35.6636-108.8939-2-15-						0-N09183-09/21/78-14-			27-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.52
04-35.6639-108.8914-2-15-						0-N09184-09/21/78-14-			27-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.52

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
04	35.7333	108.7842	2	15	0	0-N09122	-5	6	-5	31	34	-15	11	-10	-15	2	27
04	35.7492	108.7792	2	15	0	0-N09123	-5	5	-5	25	-20	-15	25	-10	-15	1	26
04	35.7303	108.8475	2	15	0	0-N09124	-5	-5	-5	21	-20	-15	9	-10	-15	1	21
04	35.7600	108.8150	2	15	0	0-N09126	-5	5	-5	18	-20	15	13	-10	-15	1	23
04	35.8156	108.8764	2	15	0	0-N09128	-5	-5	-5	22	-20	-15	6	-10	-15	1	28
04	35.8381	108.8828	2	15	0	0-N09129	-5	6	-5	30	-20	18	8	-10	-15	1	26
04	35.8458	108.8842	2	15	0	0-N09130	-5	-5	-5	28	-20	-15	6	-10	-15	2	27
04	35.8436	108.8875	2	15	0	0-N09131	-5	7	-5	23	-20	-15	11	-10	-15	1	16
04	35.8489	108.8969	2	15	0	0-N09132	-5	-5	-5	33	-20	-15	11	-10	-15	2	28
04	35.8844	108.8853	2	15	0	0-N09133	-5	-5	-5	21	-20	-15	5	-10	-15	1	25
04	35.9092	108.8931	2	15	0	0-N09135	-5	6	-5	25	-20	-15	11	-10	-15	2	32
04	35.9386	108.9147	2	12	0	0-N09136	-5	7	-5	14	-20	-15	7	-10	-15	1	25
04	35.9092	108.9208	2	15	0	0-N09137	-5	6	-5	28	-20	-15	8	-10	-15	1	34
04	35.9475	108.9117	2	12	0	0-N09138	-5	5	-5	-10	-20	-15	5	-10	-15	1	17
04	35.9606	108.9175	2	12	0	0-N09139	-5	5	-5	13	-20	-15	-5	-10	-15	-1	19
04	35.8386	108.8586	2	15	0	0-N09140	-5	5	-5	34	-20	19	15	-10	-15	2	33
04	35.7686	108.9025	2	15	0	0-N09142	-5	-5	-5	36	-20	-15	17	-10	-15	2	19
04	35.7669	108.8972	2	15	0	0-N09143	-5	-5	-5	27	-20	-15	9	-10	-15	2	23
04	35.7786	108.8686	2	15	0	0-N09145	-5	-5	-5	31	-20	-15	13	-10	-15	2	30
04	35.7947	108.8808	2	15	0	0-N09146	-5	9	-5	15	-20	-15	11	-10	-15	2	24
04	35.7931	108.8958	2	15	0	0-N09147	-5	-5	-5	27	-20	20	8	-10	-15	1	21
04	35.7906	108.9075	2	15	0	0-N09148	-5	-5	-5	24	-20	-15	13	-10	-15	1	24
04	35.7889	108.9211	2	15	0	0-N09149	-5	-5	-5	35	-20	33	7	-10	-15	1	23
04	35.7853	108.9264	2	15	0	0-N09150	-5	5	-5	28	-20	23	11	-10	-15	2	24
04	35.7725	108.8539	2	15	0	0-N09151	-5	-5	-5	21	-20	-15	9	-10	-15	1	21
04	35.7733	108.8636	2	15	0	0-N09152	-5	5	-5	25	-20	-15	6	-10	-15	1	18
04	35.8156	108.8144	2	15	0	0-N09153	-5	-5	-5	23	-20	-15	5	-10	-15	1	24
04	35.8281	108.7992	2	15	0	0-N09155	-5	-5	-5	40	-20	-15	-5	-10	-15	2	39
04	35.8308	108.7875	2	15	0	0-N09156	-5	5	-5	13	-20	-15	6	-10	-15	1	25
04	35.6997	108.9922	2	15	0	0-N09158	-5	-5	-5	24	-20	15	7	-10	-15	1	23
04	35.6922	108.9594	2	15	0	0-N09159	-5	-5	-5	22	-20	-15	10	-10	-15	-1	3
04	35.6950	108.9342	2	15	0	0-N09160	-5	6	-5	22	-20	-15	14	-10	-15	1	23
04	35.7378	108.8861	2	15	0	0-N09161	-5	-5	-5	27	-20	-15	13	-10	-15	1	26
04	35.7161	108.9492	2	15	0	0-N09162	-5	-5	-5	30	-20	-15	9	-10	-15	1	19
04	35.7286	108.9894	2	15	0	0-N09163	-5	-5	-5	21	-20	-15	6	-10	-15	2	23
04	35.7306	108.9878	2	15	0	0-N09164	-5	5	-5	14	-20	-15	8	-10	-15	1	20
04	35.9367	108.9767	2	15	0	0-N09165	-5	-5	-5	19	-20	-15	8	-10	-15	-1	17
04	35.9753	108.9361	2	15	0	0-N09167	-5	-5	-5	15	-20	-15	6	-10	-15	1	18
04	35.9833	108.9358	2	15	0	0-N09168	-5	-5	-5	17	-20	-15	6	-10	-15	-1	14
04	35.9836	108.9269	2	15	0	0-N09169	-5	-5	-5	24	-20	-15	-5	-10	-15	1	18
04	35.9822	108.9264	2	15	0	0-N09170	-5	7	-5	17	-20	-15	7	-10	-15	1	27
04	35.9925	108.9742	2	15	0	0-N09171	-5	-5	-5	21	-20	-15	8	-10	-15	-1	18
04	35.9928	108.9803	2	15	0	0-N09173	-5	-5	-5	17	-20	-15	6	-10	-15	1	31
04	35.9539	108.9933	2	15	0	0-N09174	-5	-5	-5	14	-20	16	-5	-10	-15	-1	27
04	35.9494	108.9914	2	15	0	0-N09175	-5	-5	-5	13	-20	-15	10	-10	-15	-1	14
04	35.9347	108.9439	2	15	0	0-N09176	-5	7	-5	29	-20	19	6	-10	17	1	35
04	35.8683	108.9456	2	15	0	0-N09178	-5	5	-5	16	-20	18	-5	-10	-15	-1	12
04	35.7928	108.9986	2	15	0	0-N09179	-5	6	-5	21	-20	18	7	-10	-15	1	27
04	35.6647	108.9167	2	15	0	0-N09181	-5	-5	-5	33	-20	-15	12	-10	-15	1	25
04	35.6636	108.8939	2	15	0	0-N09183	-5	-5	-5	37	-20	17	18	-10	-15	2	29
04	35.6639	108.8914	2	15	0	0-N09184	-5	-5	-5	19	-20	-15	8	-10	-15	1	19

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
04-	35.7333-	108.7842-2-15-				0-N09122	64290	-0.09	1039	9804	91	-85	8.4	34	4.4	5	1.6	21170	18.6	21160	46	0.5
04-	35.7492-	108.7792-2-15-				0-N09123	73730	-0.11	707	11460	86	130	11.4	37	7.7	5	1.7	32070	8.3	19170	52	0.5
04-	35.7303-	108.8475-2-15-				0-N09124	66010	-0.08	859	10250	92	-72	9.7	33	5.5	6	1.7	26200	15.1	22350	40	0.5
04-	35.7600-	108.8150-2-15-				0-N09125	64360	-0.08	722	7304	74	-69	7.1	28	3.7	5	1.3	20640	13.4	23090	26	0.4
04-	35.8156-	108.8764-2-15-				0-N09128	57100	-0.08	1232	12480	72	-82	7.1	31	3.6	5	1.5	18830	15.4	21410	29	0.4
04-	35.8381-	108.8828-2-15-				0-N09129	74770	-0.12	696	10860	95	-80	14.3	51	8.2	6	2.0	36210	8.5	20630	45	0.6
04-	35.8458-	108.8842-2-15-				0-N09130	68490	-0.09	883	7495	83	-71	9.2	43	5.4	6	1.7	26430	17.9	22230	41	0.6
04-	35.8436-	108.8875-2-15-				0-N09131	57840	-0.08	846	4575	77	-58	6.5	42	4.0	6	1.3	17650	21.7	20930	32	0.6
04-	35.8489-	108.8969-2-15-				0-N09132	71700	-0.10	777	6690	72	-77	9.1	40	6.9	6	1.3	20450	9.0	20940	31	0.4
04-	35.8844-	108.8853-2-15-				0-N09133	55430	-0.09	649	9358	71	-74	7.2	33	6.7	5	1.4	20850	15.5	21980	35	0.5
04-	35.9092-	108.8931-2-15-				0-N09135	59440	-0.08	639	5417	74	-76	9.7	45	6.0	4	1.6	22680	13.2	21260	36	0.5
04-	35.9386-	108.9147-2-12-				0-N09136	56090	-0.08	652	12690	74	-63	5.5	29	4.5	6	1.2	17100	21.6	19560	34	0.5
04-	35.9092-	108.9208-2-15-				0-N09137	65630	-0.09	488	4553	78	-62	7.0	40	5.2	6	1.2	22360	13.5	20490	34	0.5
04-	35.9475-	108.9117-2-12-				0-N09138	45750	-0.08	626	7323	70	-69	4.9	39	5.2	5	1.4	15300	29.2	19850	40	0.5
04-	35.9606-	108.9175-2-12-				0-N09139	38220	-0.07	597	10070	82	-64	3.8	44	3.2	5	1.5	17780	43.3	17500	42	0.8
04-	35.8386-	108.8586-2-15-				0-N09140	70640	-0.09	891	9954	84	-68	9.4	48	4.7	6	1.6	26370	18.5	19590	44	0.6
04-	35.7686-	108.9025-2-15-				0-N09142	67570	-0.10	502	5076	90	88	6.1	25	6.5	7	1.3	16290	11.7	17780	42	0.4
04-	35.7669-	108.8972-2-15-				0-N09143	63460	-0.10	1128	12360	79	-68	10.4	39	7.0	5	1.8	25660	16.9	18700	44	0.6
04-	35.7786-	108.8686-2-15-				0-N09145	71280	-0.09	698	7482	90	-69	9.7	42	6.3	5	1.7	25070	9.5	22560	51	0.5
04-	35.7947-	108.8808-2-15-				0-N09146	55790	-0.08	1239	7953	84	-67	7.4	33	3.4	6	1.6	21050	23.0	19860	43	0.6
04-	35.7931-	108.8958-2-15-				0-N09147	67770	-0.09	528	7511	72	-72	8.6	42	4.0	6	1.2	20960	12.5	19970	32	0.5
04-	35.7906-	108.9075-2-15-				0-N09148	62040	-0.10	815	6303	84	-73	10.4	37	6.2	6	1.8	25770	13.1	22380	42	0.5
04-	35.7889-	108.9211-2-15-				0-N09149	82900	-0.10	463	7271	85	-62	19.2	56	7.1	6	1.6	22200	7.3	20940	37	0.4
04-	35.7853-	108.9264-2-15-				0-N09150	70510	-0.09	804	10770	69	-63	8.5	38	6.8	6	1.4	20380	9.5	20040	38	0.4
04-	35.7725-	108.8539-2-15-				0-N09151	59910	-0.09	947	9316	75	-77	6.9	32	3.9	6	1.5	17640	15.2	21140	33	0.5
04-	35.7733-	108.8636-2-15-				0-N09152	58390	-0.11	885	11910	126	-88	9.3	79	5.4	7	2.4	41440	56.0	17730	70	1.1
04-	35.8156-	108.8144-2-15-				0-N09153	67240	-0.09	800	11880	94	-75	9.0	41	5.8	5	1.7	27800	12.2	21640	49	0.6
04-	35.8281-	108.7992-2-15-				0-N09155	68310	-0.09	679	12140	71	-70	7.9	30	4.7	6	1.4	24640	7.8	21300	37	0.5
04-	35.8308-	108.7875-2-15-				0-N09156	51270	-0.08	678	9676	89	-78	6.4	35	2.1	6	1.2	23650	29.1	18340	39	0.7
04-	35.6997-	108.9922-2-15-				0-N09158	59540	-0.10	801	8550	87	-72	9.5	41	5.5	5	1.9	22170	21.9	24150	43	0.6
04-	35.6922-	108.9594-2-15-				0-N09159	57630	-0.03	665	3881	71	-74	6.2	35	5.7	5	1.4	16240	17.4	19220	31	0.6
04-	35.6950-	108.9342-2-15-				0-N09160	57620	-0.03	695	4885	51	-72	4.7	31	4.5	5	0.6	13300	9.4	24710	27	0.4
04-	35.7378-	108.8861-2-15-				0-N09161	70720	-0.04	752	7226	90	-78	6.8	31	5.4	6	1.7	17380	14.1	24860	39	0.6
04-	35.7161-	108.9492-2-15-				0-N09162	58270	-0.04	846	5787	98	-64	10.0	47	5.9	6	1.2	26520	31.6	20950	44	0.8
04-	35.7286-	108.9894-2-15-				0-N09163	49610	-0.04	579	3759	59	-58	15.6	38	9.7	4	2.8	18210	19.2	20320	25	0.4
04-	35.7306-	108.9878-2-15-				0-N09164	47750	-0.03	659	3715	60	-65	6.0	42	3.7	5	0.7	16400	18.2	19770	25	0.5
04-	35.9367-	108.9767-2-15-				0-N09165	32260	-0.02	491	7577	28	-66	3.8	42	1.1	3	0.8	20540	23.3	16640	14	0.3
04-	35.9753-	108.9361-2-15-				0-N09167	34130	-0.03	506	9202	37	-62	3.4	42	1.3	3	0.9	17450	21.2	17060	13	0.3
04-	35.9833-	108.9358-2-15-				0-N09168	33030	-0.03	629	7990	36	-57	5.1	53	1.8	3	0.6	26060	33.4	14840	18	0.5
04-	35.9836-	108.9269-2-15-				0-N09169	35160	-0.05	821	2462	50	-53	8.2	52	3.5	4	1.3	26540	38.6	15870	23	0.6
04-	35.9822-	108.9264-2-15-				0-N09170	44990	-0.02	629	4517	47	-78	3.4	32	3.0	4	0.7	12410	15.2	20510	21	0.4
04-	35.9925-	108.9742-2-15-				0-N09171	28050	-0.02	472	11130	24	377	3.4	30	1.7	2	0.4	14570	12.2	15050	11	0.3
04-	35.9928-	108.9803-2-15-				0-N09173	44120	-0.03	432	3941	45	-72	4.1	34	2.4	4	1.0	12560	11.3	20490	17	0.4
04-	35.9539-	108.9933-2-15-				0-N09174	37600	-0.03	329	20720	31	-71	4.8	28	2.6	3	1.0	15460	13.6	13810	17	0.2
04-	35.9494-	108.9914-2-15-				0-N09175	31510	-0.03	492	9336	35	-55	5.2	65	-1.1	3	0.6	30790	36.4	18250	15	0.5
04-	35.9347-	108.9439-2-15-				0-N09176	44710	-0.05	457	65740	51	-65	14.4	50	6.1	4	2.0	20650	9.7	16100	21	0.4
04-	35.8683-	108.9456-2-15-				0-N09178	29880	-0.04	410	2198	64	-36	3.8	27	2.4	5	1.0	9475	30.7	15000	28	0.5
04-	35.7928-	108.9986-2-15-				0-N09179	51690	-0.06	458	24190	73	-50	14.4	50	8.2	5	2.3	25050	22.7	18210	37	0.5
04-	35.6647-	108.9167-2-15-				0-N09181	63570	-0.10	600	12550	73	137	8.0	33	4.6	6	1.2	18210	11.3	19700	31	0.5
04-	35.6636-	108.8939-2-15-				0-N09183	63930	-0.12	790	7022	92	-72	12.6	41	7.5	6	1.9	27940	8.4	19200	48	0.5
04-	35.6639-	108.8914-2-15-				0-N09184	56070	-0.08	758	5180	79	-67	8.3	34	4.3	5	1.5	18560	16.4	21460	37	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	
04-	35.7333-	108.7842-	2-	15-	0-	N09122	8592	465	11540	59	2	7.5	6.3	-220	-1	-1	15.7	5981	79	4.2	-83	0.297
04-	35.7492-	108.7792-	2-	15-	0-	N09123	13010	402	9197	125	-3	12.3	7.0	-199	-1	-1	15.5	3696	79	3.8	354	0.228
04-	35.7303-	108.8475-	2-	15-	0-	N09124	12730	397	11990	83	-2	8.8	6.4	-222	-1	-1	15.0	3980	65	5.1	125	0.261
04-	35.7600-	108.8150-	2-	15-	0-	N09126	10170	370	11620	75	-2	7.4	5.5	-206	-1	-1	12.2	4469	65	3.6	-23	0.278
04-	35.8156-	108.8764-	2-	15-	0-	N09128	8781	610	11090	72	-2	6.2	5.6	-229	-1	-1	13.7	4800	58	4.1	64	0.279
04-	35.8381-	108.8828-	2-	15-	0-	N09129	12460	340	10420	112	-3	13.1	7.8	376	-1	-1	16.0	4644	82	4.1	186	0.227
04-	35.8458-	108.8842-	2-	15-	0-	N09130	10230	332	10380	73	-2	9.6	7.0	-220	-1	-1	15.0	4794	75	5.1	-78	0.284
04-	35.8436-	108.8875-	2-	15-	0-	N09131	6395	297	8980	91	-2	7.1	6.1	-178	-1	-1	13.9	5242	62	6.9	82	0.327
04-	35.8489-	108.8969-	2-	15-	0-	N09132	8909	296	10200	68	-2	8.4	5.7	-190	-1	-1	13.3	4938	73	5.0	-86	0.299
04-	35.8844-	108.8853-	2-	15-	0-	N09133	8106	352	10360	88	-2	7.5	6.1	-183	-1	-1	11.9	3520	49	3.3	83	0.222
04-	35.9092-	108.8931-	2-	15-	0-	N09135	8394	703	9235	86	-2	8.4	5.2	-276	-1	-1	12.8	3988	55	3.9	-86	0.237
04-	35.9386-	108.9147-	2-	12-	0-	N09136	11580	352	8866	74	-2	6.6	6.2	-202	-1	1	13.5	4646	55	4.1	-10	0.281
04-	35.9092-	108.9208-	2-	15-	0-	N09137	10960	255	7219	62	-2	8.0	4.9	-166	-1	-1	13.9	4349	62	4.1	53	0.283
04-	35.9475-	108.9117-	2-	12-	0-	N09138	5757	284	10500	70	-2	5.4	5.6	-168	-1	-1	14.0	3624	40	4.8	64	0.234
04-	35.9606-	108.9175-	2-	12-	0-	N09139	5016	471	9250	64	-2	5.6	5.5	-209	1	-1	15.4	5277	48	5.7	64	0.254
04-	35.8386-	108.8586-	2-	15-	0-	N09140	11890	429	10030	74	-2	9.7	6.4	-218	-1	-1	16.0	6337	86	4.3		0.286
04-	35.7686-	108.9025-	2-	15-	0-	N09142	6053	107	5774	62	3	8.8	6.5	338	-1	-1	12.9	4538	75	4.2	114	0.355
04-	35.7669-	108.8972-	2-	15-	0-	N09143	10059	340	8457	99	-2	10.6	6.2	-177	-1	-1	14.6	3817	71	5.4	99	0.262
04-	35.7786-	108.8686-	2-	15-	0-	N09145	10870	299	10350	92	-2	10.0	6.9	-206	-1	-1	13.6	4171	74	4.8	114	0.282
04-	35.7947-	108.8808-	2-	15-	0-	N09146	10420	408	11690	63	-2	7.2	6.7	-203	-1	-1	15.3	5052	66	6.3	64	0.304
04-	35.7931-	108.8958-	2-	15-	0-	N09147	10430	444	8978	68	-2	8.5	6.2	-202	-1	-1	10.9	5062	75	3.6	-60	0.354
04-	35.7906-	108.9075-	2-	15-	0-	N09148	8178	294	10450	122	-2	9.5	6.6	-180	-1	-1	15.6	3913	58	5.5	-84	0.238
04-	35.7889-	108.9211-	2-	15-	0-	N09149	13420	249	8828	86	-2	11.9	7.1	-192	-1	-1	13.1	4488	85	4.2	137	0.293
04-	35.7853-	108.9264-	2-	15-	0-	N09150	10020	407	8137	70	-2	9.1	6.3	-208	-1	-1	11.9	4738	70	4.2	116	0.309
04-	35.7725-	108.8539-	2-	15-	0-	N09151	9747	378	9593	67	-2	6.6	5.6	-200	-1	-1	12.0	4697	60	4.5	-59	0.339
04-	35.7733-	108.8636-	2-	15-	0-	N09152	7374	576	13340	93	-2	10.4	10.2	-223	3	-1	24.3	6930	93	8.8	102	0.256
04-	35.8156-	108.8144-	2-	15-	0-	N09153	7454	381	11960	84	-2	9.6	7.4	-227	-1	-1	15.6	4817	66	4.2	101	0.262
04-	35.8281-	108.7992-	2-	15-	0-	N09155	11430	408	10330	56	-2	8.6	7.2	-221	-1	-1	13.1	4859	73	4.2	-26	0.344
04-	35.8308-	108.7875-	2-	15-	0-	N09156	7226	508	11800	59	-2	6.1	6.6	-209	-1	-1	13.2	6073	85	5.5	75	0.370
04-	35.6997-	108.9922-	2-	15-	0-	N09158	10710	297	10920	115	-2	9.0	6.6	-173	-1	-1	17.2	3572	51	5.2	121	0.229
04-	35.6922-	108.9594-	2-	15-	0-	N09159	6846	256	9272	78	-1	7.2	5.0	-182	-1	-1	12.2	3647	56	3.6	103	0.281
04-	35.6950-	108.9342-	2-	15-	0-	N09160	6694	205	9851	82	-1	5.9	4.6	-167	-1	-1	10.2	2919	45	3.0	56	0.298
04-	35.7378-	108.8861-	2-	15-	0-	N09161	10030	334	10540	71	-1	7.7	7.1	-241	-1	-1	13.5	3989	62	4.5	98	0.247
04-	35.7161-	108.9492-	2-	15-	0-	N09162	9711	294	8584	129	2	9.7	7.6	-198	-2	-1	19.1	4482	63	6.1	104	0.253
04-	35.7286-	108.9894-	2-	15-	0-	N09163	6320	228	7275	88	-1	8.3	5.8	-145	2	1	10.6	3161	45	3.4	108	0.302
04-	35.7306-	108.9878-	2-	15-	0-	N09164	5516	233	7309	65	1	5.8	4.2	-167	-1	-1	9.6	3319	50	3.0	49	0.339
04-	35.9367-	108.9767-	2-	15-	0-	N09165	8419	359	6405	52	-1	3.3	2.4	-180	-1		5.0	3397	57	2.3	58	0.510
04-	35.9753-	108.9361-	2-	15-	0-	N09167	9208	350	7019	45	-1	3.0	2.2	-206	-1	-1	4.9	3008	52	2.2	-24	0.447
04-	35.9833-	108.9358-	2-	15-	0-	N09168	4702	375	7074	75	-1	4.3	3.6	-193	-1	-1	8.5	4003	53	4.2	60	0.313
04-	35.9836-	108.9269-	2-	15-	0-	N09169	4913	425	7785	55	-1	5.6	4.3	-182	1	-1	9.8	4213	54	3.9	79	0.329
04-	35.9822-	108.9264-	2-	15-	0-	N09170	6607	324	11500	57	-1	4.1	3.5	-193	-1	-1	6.8	3137	34	2.5	44	0.350
04-	35.9925-	108.9742-	2-	15-	0-	N09171	5888	321	6024	38	-1	2.8	1.9	-176	-1		4.0	2447	48	1.7	-21	0.460
04-	35.9928-	108.9803-	2-	15-	0-	N09173	9975	336	9802	44	-1	4.2	3.8	-221	-1	-1	6.3	2491	37	2.3	-20	0.300
04-	35.9539-	108.9933-	2-	15-	0-	N09174	16180	320	7612	49	-1	4.2	3.2	-194	-1		4.6	2198	37	2.3	-21	0.413
04-	35.9494-	108.9914-	2-	15-	0-	N09175	6603	412	6904	65	-1	4.0	2.8	-192	-1		6.9	3843	65	3.7	-21	0.396
04-	35.9347-	108.9439-	2-	15-	0-	N09176	34020	410	5961	78	-1	9.5	4.8	304	-1	-1	8.6	3049	41	2.8	72	0.186
04-	35.8683-	108.9456-	2-	15-	0-	N09178	3918	230	3324	39	-1	3.7	6.2	-137	-1	1	11.1	2429	26	4.5	24	0.306
04-	35.7928-	108.9986-	2-	15-	0-	N09179	10530	244	6210	107	-1	10.4	6.0	-160	-1	-1	15.0	3345	49	4.6	140	0.247
04-	35.6647-	108.9167-	2-	15-	0-	N09181	11130	399	9304	68	-2	7.9	5.7	-200	-1	-1	11.7	4781	74	4.3	-20	0.345
04-	35.6636-	108.8939-	2-	15-	0-	N09183	10960	350	9889	120	-3	10.4	7.0	307	-1	-1	14.5	3696	63	4.1	146	0.243
04-	35.6639-	108.8914-	2-	15-	0-	N09184	6480	308	11550	91	-2	7.1	5.9	-194	-1	-1	13.5	3919	46	3.1	89	0.261

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.6792-	108.8839-	2-	99-	0-	N09185-	09/21/78-	14-	27-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	-	-	-	-	-1-	-	-	-	-	-	3.44
04-	35.8922-	108.6522-	2-	15-	0-	N09186-	09/21/78-	16-	28-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	2.79
04-	35.9086-	108.6558-	2-	15-	0-	N09187-	09/21/78-	16-	28-		-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-	2-	3-	2-	1-	2-	-1-	-	-	-	-	3.12
04-	35.9761-	108.7725-	2-	99-	0-	N09190-	09/21/78-	18-	24-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	-	-1-	3-	1-	2-	-1-	-	-	-	-	4.30
04-	35.9650-	108.7514-	2-	99-	0-	N09191-	09/21/78-	18-	25-		-C-	-	-	-	-	4-	1-	6-	4-	6-	-1-	-	-	-3-	3-	2-	2-	-1-	-	-	-	-	4.75
04-	35.9239-	108.7586-	2-	99-	0-	N09193-	09/22/78-	8-	21-		-C-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	-	-1-	3-	2-	1-	-1-	-	-	-	-	4.03
04-	35.9564-	108.6492-	2-	15-	0-	N09194-	09/22/78-	9-	24-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	2-	1-	1-	-1-	-	-	-	-	1.94
04-	35.9689-	108.6667-	2-	15-	0-	N09195-	09/22/78-	9-	24-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	2-	1-	-1-	-	-	-	-	3.95
04-	35.9839-	108.6875-	2-	15-	0-	N09198-	09/22/78-	10-	25-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.37
04-	35.9725-	108.7083-	2-	15-	0-	N09199-	09/22/78-	10-	25-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	3-	1-	-1-	-	-	-	-	2.66
04-	35.9717-	108.7108-	2-	15-	0-	N09200-	09/22/78-	10-	25-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	3-	1-	-1-	-	-	-	-	2.63
04-	35.9969-	108.7103-	2-	15-	0-	N09201-	09/22/78-	10-	26-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	1-	3-	3-	1-	-1-	-	-	-	-	3.47
04-	35.9464-	108.6550-	2-	15-	0-	N09202-	09/22/78-	11-	27-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	5.30
04-	35.9417-	108.6706-	2-	99-	0-	N09203-	09/22/78-	11-	27-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	-	-3-	3-	2-	1-	-1-	-	-	-	-	4.76
04-	35.9356-	108.6697-	2-	15-	0-	N09204-	09/22/78-	11-	27-		-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-	2-	3-	3-	3-	1-	-1-	-	-	-	-	4.41
04-	35.9172-	108.6614-	2-	15-	0-	N09205-	09/22/78-	11-	27-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.43
04-	35.8803-	108.7014-	2-	15-	0-	N09206-	09/22/78-	12-	27-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	3-	1-	-1-	-	-	-	-	4.22
04-	35.9042-	108.7439-	2-	99-	0-	N09207-	09/22/78-	12-	27-		-C-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-	-	-1-	3-	2-	1-	-1-	-	-	-	-	3.92
04-	35.8525-	108.7358-	2-	15-	0-	N09208-	09/22/78-	13-	28-		-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.74
04-	35.8494-	108.6717-	2-	15-	0-	N09211-	09/22/78-	13-	27-		-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	6.91
04-	35.8628-	108.6461-	2-	15-	0-	N09212-	09/22/78-	13-	27-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.66
04-	35.8322-	108.6278-	2-	15-	0-	N09213-	09/22/78-	13-	27-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.24
04-	35.8189-	108.7008-	2-	15-	0-	N09214-	09/22/78-	14-	27-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.65
04-	35.7844-	108.7219-	2-	15-	0-	N09217-	09/22/78-	15-	27-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	3.86
04-	35.7631-	108.7300-	2-	15-	0-	N09219-	09/22/78-	16-	26-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	3.83
04-	35.8011-	108.6650-	2-	15-	0-	N09221-	09/22/78-	17-	26-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	3.90
04-	35.7783-	108.6656-	2-	15-	0-	N09222-	09/22/78-	17-	26-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	4.15
04-	35.7739-	108.6506-	2-	15-	0-	N09223-	09/22/78-	17-	25-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	4.14
04-	35.7944-	108.6411-	2-	15-	0-	N09224-	09/22/78-	17-	25-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	4.07
04-	35.7931-	108.6394-	2-	99-	0-	N09225-	09/22/78-	17-	25-		-C-	-	-	-	-	14-	1-	6-	4-	6-	-1-	-	-	-3-	3-	1-	2-	-1-	-	-	-	-	11.39
04-	35.7736-	108.6144-	2-	15-	0-	N09227-	09/22/78-	18-	24-		-	-	-	-	-	4-	1-	6-	4-	6-	-1-	-	2-	3-	3-	2-	2-	-1-	-	-	-	-	3.04
04-	35.7917-	108.5483-	2-	15-	0-	N09229-	09/23/78-	9-	24-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	4.21
04-	35.7894-	108.5267-	2-	15-	0-	N09231-	09/27/78-	8-	23-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.53
04-	35.7786-	108.5056-	2-	15-	0-	N09232-	09/27/78-	9-	23-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	2.98
04-	35.7917-	108.4772-	2-	15-	0-	N09234-	09/27/78-	9-	23-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	2.26
04-	35.7961-	108.4508-	2-	15-	0-	N09235-	09/27/78-	9-	24-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	2.81
04-	35.7956-	108.4531-	2-	15-	0-	N09236-	09/27/78-	9-	24-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	2.61
04-	35.7981-	108.4142-	2-	15-	0-	N09237-	09/27/78-	9-	24-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	2.95
04-	35.8025-	108.4186-	2-	11-	0-	N09238-	09/27/78-	9-	24-		-C-	-	-	-	-	9-	1-	6-	4-	6-	1-	2-	4-	-3-	3-	3-	1-	1-	-9-	-	-	-	-	2.96
04-	35.7956-	108.3778-	2-	15-	0-	N09239-	09/27/78-	10-	25-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.00
04-	35.7764-	108.3133-	2-	15-	0-	N09242-	09/27/78-	11-	26-		-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.63
04-	35.7786-	109.1053-	2-	15-	0-	N09243-	09/07/78-	13-	27-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	1-	3-	2-	2-	-1-	-	-	-	-	2.60
04-	35.7650-	109.1036-	2-	15-	0-	N09244-	09/27/78-	13-	27-		-	-	-	-	-	5-	1-	6-	4-	6-	-1-	-	2-	1-	3-	3-	2-	-1-	-	-	-	-	2.56
04-	35.7614-	109.1047-	2-	15-	0-	N09245-	09/27/78-	13-	27-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.19
04-	35.7597-	109.0583-	2-	15-	0-	N09246-	09/27/78-	14-	27-		-	-	-	-	-	4-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	1.51
04-	35.9200-	109.0169-	2-	15-	0-	N09248-	09/28/78-	9-	21-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	2-	2-	-1-	-	-	-	-	1.97
04-	35.9231-	109.0172-	2-	15-	0-	N09249-	09/28/78-	9-	21-		-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-	2-	3-	3-	3-	2-	-1-	-	-	-	-	1.71
04-	35.9403-	109.0339-	2-	15-	0-	N09250-	09/28/78-	9-	22-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	4-	1-	2-	-1-	-	-	-	-	1.68
04-	35.9700-	109.0356-	2-	15-	0-	N09251-	09/28/78-	10-	22-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	2.13
04-	35.9672-	109.0408-	2-	15-	0-	N09252-	09/28/78-	10-	22-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	2-	4-	4-	1-	2-	-1-	-	-	-	-	3.19
04-	35.9894-	109.0533-	2-	15-	0-	N09253-	09/28/78-	10-	23-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	4-	1-	2-	-1-	-	-	-	-	2.62

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
04-	35.6792-	108.8839-	2-	99-	0-	N09195	-5	-5	-5	21	-20	-15	11	-10	-15	1	20
04-	35.8922-	108.6522-	2-	15-	0-	N09196	-5	-5	-5	26	-20	-15	10	-10	-15	1	23
04-	35.9086-	108.6558-	2-	15-	0-	N09197	-5	-5	-5	20	-20	-15	-5	-10	-15	1	45
04-	35.9761-	108.7725-	2-	99-	0-	N09190	-5	6	-5	17	-20	-15	8	-10	-15	1	13
04-	35.9650-	108.7514-	2-	99-	0-	N09191	-5	-5	-5	23	-20	15	12	-10	-15	1	21
04-	35.9239-	108.7586-	2-	99-	0-	N09193	-5	-5	-5	17	-20	-15	6	-10	-15	1	22
04-	35.9564-	108.6492-	2-	15-	0-	N09194	-5	5	-5	23	-20	-15	10	-10	-15	2	29
04-	35.9689-	108.6667-	2-	15-	0-	N09195	-5	8	-5	25	-20	16	29	-10	-15	2	24
04-	35.9839-	108.6875-	2-	15-	0-	N09198	-5	-5	-5	11	-20	15	14	-10	-15	1	23
04-	35.9725-	108.7083-	2-	15-	0-	N09199	-5	5	-5	20	-20	-15	11	-10	-15	1	32
04-	35.9717-	108.7108-	2-	15-	0-	N09200	-5	-5	-5	15	-20	-15	5	-10	-15	1	28
04-	35.9969-	108.7103-	2-	15-	0-	N09201	-5	-5	-5	-10	-20	-15	5	-10	-15	1	21
04-	35.9464-	108.6550-	2-	15-	0-	N09202	-5	9	-5	14	-20	-15	13	-10	-15	1	29
04-	35.9417-	108.6706-	2-	99-	0-	N09203	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	23
04-	35.9356-	108.6697-	2-	15-	0-	N09204	-5	-5	-5	19	-20	-15	11	-10	-15	2	23
04-	35.9172-	108.6614-	2-	15-	0-	N09205	-5	-5	-5	17	-20	-15	5	-10	-15	1	30
04-	35.8803-	108.7014-	2-	15-	0-	N09206	-5	-5	-5	12	-20	-15	10	-10	-15	1	22
04-	35.9042-	108.7439-	2-	99-	0-	N09207	-5	-5	-5	17	-20	-15	13	-10	-15	1	21
04-	35.8525-	109.7358-	2-	15-	0-	N09208	-5	-5	-5	24	-20	-15	7	-10	-15	2	18
04-	35.8494-	108.6717-	2-	15-	0-	N09211	5	13	-5	12	-20	-15	10	-10	-15	1	25
04-	35.8628-	108.6461-	2-	15-	0-	N09212	-5	-5	-5	26	-20	17	10	-10	-15	2	23
04-	35.8322-	108.6278-	2-	15-	0-	N09213	-5	8	-5	25	-20	-15	10	-10	-15	2	31
04-	35.8189-	108.7008-	2-	15-	0-	N09214	-5	-5	-5	26	-20	-15	7	-10	-15	2	22
04-	35.7844-	108.7219-	2-	15-	0-	N09217	-5	-5	-5	37	-20	-15	-5	-10	-15	2	23
04-	35.7631-	108.7300-	2-	15-	0-	N09219	-5	5	-5	31	-20	18	9	-10	-15	2	25
04-	35.8011-	108.6650-	2-	15-	0-	N09221	-5	-5	-5	25	-20	-15	9	-10	-15	2	23
04-	35.7783-	108.6656-	2-	15-	0-	N09222	-5	-5	-5	31	-20	-15	14	-10	-15	2	19
04-	35.7739-	108.6506-	2-	15-	0-	N09223	-5	-5	-5	30	-20	15	12	-10	-15	2	27
04-	35.7944-	108.6411-	2-	15-	0-	N09224	-5	5	-5	29	-20	-15	11	-10	-15	2	29
04-	35.7931-	108.6394-	2-	99-	0-	N09225	-5	-5	-5	-10	-20	-15	17	-10	-15	1	21
04-	35.7736-	108.6144-	2-	15-	0-	N09227	-5	5	-5	18	-20	-15	10	-10	-15	2	21
04-	35.7917-	108.5483-	2-	15-	0-	N09229	-5	-5	-5	12	-20	-15	13	-10	-15	1	11
04-	35.7894-	108.5267-	2-	15-	0-	N09231	-5	-5	-5	35	-20	20	18	-10	-15	2	21
04-	35.7786-	108.5056-	2-	15-	0-	N09232	-5	-5	-5	14	-20	-15	6	-10	-15	1	13
04-	35.7917-	108.4772-	2-	15-	0-	N09234	-5	-5	-5	12	-20	-15	9	-10	-15	1	13
04-	35.7961-	108.4508-	2-	15-	0-	N09235	-5	-5	-5	26	-20	-15	12	-10	-15	1	19
04-	35.7956-	108.4531-	2-	15-	0-	N09236	-5	-5	-5	20	-20	-15	11	-10	-15	1	13
04-	35.7981-	108.4142-	2-	15-	0-	N09237	-5	-5	-5	18	-20	-15	10	-10	-15	2	19
04-	35.8025-	109.4186-	2-	11-	0-	N09238	-5	-5	-5	19	-20	-15	16	-10	-15	2	20
04-	35.7956-	108.3778-	2-	15-	0-	N09239	-5	-5	-5	23	-20	-15	9	-10	-15	2	23
04-	35.7764-	108.3133-	2-	15-	0-	N09242	-5	-5	-5	20	-20	17	11	-10	-15	1	14
04-	35.7786-	109.1053-	2-	15-	0-	N09243	-5	-5	-5	17	-20	-15	9	-10	-15	2	27
04-	35.7650-	109.1036-	2-	15-	0-	N09244	-5	-5	-5	28	-20	-15	10	-10	-15	1	27
04-	35.7614-	109.1047-	2-	15-	0-	N09245	-5	-5	-5	17	-20	-15	6	-10	-15	1	14
04-	35.7597-	109.0583-	2-	15-	0-	N09246	-5	-5	-5	20	-20	-15	-5	-10	-15	-1	17
04-	35.9200-	109.0169-	2-	15-	0-	N09248	-5	5	-5	23	-20	24	11	-10	-15	1	16
04-	35.9231-	109.0172-	2-	15-	0-	N09249	-5	-5	-5	10	-20	38	7	-10	-15	-1	21
04-	35.9403-	109.0339-	2-	15-	0-	N09250	-5	-5	-5	22	-20	60	9	-10	-15	1	29
04-	35.9700-	109.0356-	2-	15-	0-	N09251	-5	10	-5	32	-20	-15	-5	-10	-15	1	39
04-	35.9672-	109.0408-	2-	15-	0-	N09252	-5	8	-5	27	-20	-15	11	-10	-15	1	25
04-	35.9894-	109.0533-	2-	15-	0-	N09253	-5	-5	-5	30	-20	-15	6	-10	-15	2	30

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
04-35.6792-108.8839-2-99-						0-N09195	59490	-0.08	643	4364	59	-62	6.8	35	3.6	5	1.2	18740	11.8	22300	35	0.4
04-35.8922-108.6522-2-15-						0-N09196	51490	-0.08	656	7567	54	-75	4.8	18	3.3	4	1.1	12430	8.2	19590	27	0.3
04-35.9086-108.6558-2-15-						0-N09197	56330	-0.10	717	18050	71	-78	7.1	30	5.4	4	1.4	21460	14.8	17880	-10	0.5
04-35.9761-108.7725-2-99-						0-N09190	38720	-0.07	747	5066	59	-63	4.1	33	2.7	3	1.0	13730	27.1	19070	30	0.5
04-35.9650-108.7514-2-99-						0-N09191	45390	-0.07	624	4583	60	-67	4.2	38	3.0	5	1.2	13190	17.0	17290	34	0.5
04-35.9239-108.7586-2-99-						0-N09193	46010	-0.08	580	6114	68	-67	3.1	31	2.3	5	1.2	11690	31.4	20070	27	0.6
04-35.9564-108.6492-2-15-						0-N09194	39350	-0.09	437	21140	40	-64	6.1	41	2.5	3	1.1	19170	16.3	18930	30	0.3
04-35.9689-108.6667-2-15-						0-N09195	58810	-0.09	603	11460	74	238	9.2	26	4.4	5	1.4	22440	14.0	18040	39	0.4
04-35.9839-108.6875-2-15-						0-N09198	43430	-0.08	819	7507	57	-70	3.7	26	2.2	5	1.1	11490	24.8	16940	31	0.6
04-35.9725-108.7083-2-15-						0-N09199	66440	-0.11	795	29780	79	-91	9.9	36	2.8	5	1.8	29490	16.8	17650	40	0.5
04-35.9717-108.7108-2-15-						0-N09200	56040	-0.08	745	17050	71	-73	5.6	25	3.0	4	1.2	15970	15.5	18350	37	0.4
04-35.9969-108.7103-2-15-						0-N09201	46290	-0.07	779	10670	57	-66	4.3	30	2.6	4	1.2	13670	20.5	19270	31	0.5
04-35.9464-108.6550-2-15-						0-N09202	49280	-0.09	921	11240	89	-78	5.0	29	2.7	6	1.6	18580	39.5	16880	40	0.7
04-35.9417-108.6706-2-99-						0-N09203	51870	-0.11	792	14750	95	168	8.0	45	4.4	6	2.0	26520	36.5	19640	53	0.9
04-35.9356-108.6697-2-15-						0-N09204	55400	-0.09	701	16450	86	160	7.0	41	4.3	5	1.5	22700	24.4	18820	40	0.6
04-35.9172-108.6614-2-15-						0-N09205	50800	-0.07	862	13970	43	-66	3.3	16	3.0	3	1.0	11440	10.2	21810	26	0.3
04-35.8803-108.7014-2-15-						0-N09206	53980	-0.09	918	8983	77	-79	6.1	28	2.4	6	1.5	15180	23.7	21210	38	0.6
04-35.9042-108.7439-2-99-						0-N09207	42130	-0.10	786	11890	82	-72	6.6	38	3.6	5	1.8	19490	34.7	15380	45	0.7
04-35.8525-108.7358-2-15-						0-N09208	48050	-0.08	769	11460	74	-68	6.0	38	4.6	5	1.4	16360	24.7	18130	37	0.6
04-35.8494-108.6717-2-15-						0-N09211	44110	-0.10	992	9720	118	-66	6.9	54	3.6	7	2.0	30280	67.4	14960	66	1.1
04-35.8628-108.6461-2-15-						0-N09212	63500	-0.11	633	10600	64	-76	7.2	26	5.3	5	1.2	18620	7.7	17050	35	0.5
04-35.8322-108.6278-2-15-						0-N09213	62760	-0.12	636	12020	74	142	9.8	40	6.0	5	1.6	26110	10.6	17880	43	0.5
04-35.8189-108.7008-2-15-						0-N09214	51040	-0.09	672	7760	82	-62	7.5	39	4.7	5	1.4	20970	18.8	17180	43	0.6
04-35.7844-108.7219-2-15-						0-N09217	64650	-0.09	849	10460	72	-62	8.0	25	4.6	5	1.3	21150	12.6	21350	36	0.5
04-35.7631-108.7300-2-15-						0-N09219	70160	-0.11	946	9476	67	-71	7.5	33	4.7	5	1.4	21600	9.3	21820	42	0.4
04-35.8011-108.6650-2-15-						0-N09221	61730	-0.12	829	13360	91	-74	10.3	42	6.1	6	1.9	27700	20.6	18670	43	0.6
04-35.7783-108.6656-2-15-						0-N09222	72030	-0.11	673	13770	87	119	11.0	47	7.2	6	1.7	28330	6.9	21110	52	0.4
04-35.7739-108.6506-2-15-						0-N09223	78520	-0.10	782	9922	77	62	10.0	38	6.6	6	1.6	22860	9.6	22760	41	0.5
04-35.7944-108.6411-2-15-						0-N09224	70360	-0.12	655	10260	84	-74	8.6	30	5.1	6	1.5	22800	6.5	20230	39	0.4
04-35.7931-108.6394-2-99-						0-N09225	58150	-0.11	712	4130	284	-66	6.4	68	3.5	14	2.2	19890	90.6	19330	123	1.4
04-35.7736-108.6144-2-15-						0-N09227	48360	-0.03	605	8090	71	-55	5.5	34	3.9	5	1.4	16380	12.3	22150	31	0.4
04-35.7917-108.5483-2-15-						0-N09228	29140	-0.07	457	14920	106	151	4.1	41	2.4	6	1.3	13290	40.8	16220	57	0.8
04-35.7894-108.5267-2-15-						0-N09231	61060	-0.09	755	11170	78	-56	8.2	35	4.9	5	1.3	20130	9.9	19420	35	0.4
04-35.7786-108.5056-2-15-						0-N09232	34710	-0.07	654	7734	52	-47	3.8	25	2.6	4	0.9	10430	14.5	15690	23	0.4
04-35.7917-108.4772-2-15-						0-N09234	32640	-0.07	530	4545	59	-46	4.5	30	2.4	4	1.2	11900	18.1	16470	33	0.4
04-35.7961-108.4508-2-15-						0-N09235	50680	-0.08	570	11400	69	-55	6.7	37	4.2	5	1.3	19110	13.7	19150	37	0.4
04-35.7956-108.4531-2-15-						0-N09236	41430	-0.07	575	10550	61	-49	4.2	31	2.8	4	1.0	14640	13.1	19960	27	0.4
04-35.7981-108.4142-2-15-						0-N09237	61450	-0.08	715	9123	67	-74	5.7	27	3.5	5	1.3	13920	9.2	23290	28	0.3
04-35.8025-108.4186-2-11-						0-N09238	60810	-0.11	704	13320	83	1204	8.0	39	5.7	5	1.7	22210	12.2	23360	62	0.5
04-35.7956-108.3778-2-15-						0-N09239	50940	-0.09	766	10820	77	-61	7.1	34	4.4	4	1.5	17540	14.0	20440	34	0.5
04-35.7764-108.3133-2-15-						0-N09242	56330	-0.09	734	12990	57	-56	4.5	27	3.9	4	1.1	14780	9.1	15420	33	0.3
04-35.7786-109.1053-2-15-						0-N09243	42980	-0.08	447	11130	45	-55	5.2	39	3.2	5	1.0	14560	13.8	22640	31	0.4
04-35.7650-109.1036-2-15-						0-N09244	42250	-0.09	455	11610	64	-55	6.2	56	4.9	5	1.2	20190	19.0	22260	14	0.5
04-35.7614-109.1047-2-15-						0-N09245	30250	-0.02	445	9714	25	-33	2.2	34	1.6	2	0.8	7803	4.9	22100	13	0.2
04-35.7597-109.0583-2-15-						0-N09246	28550	-0.02	538	10700	21	-50	2.6	28	1.3	2	0.4	7993	11.9	16310	9	0.2
04-35.9200-109.0169-2-15-						0-N09248	35850	-0.07	536	12950	39	-62	4.3	44	1.4	3	0.9	11680	10.7	20370	18	0.2
04-35.9231-109.0172-2-15-						0-N09249	28900	-0.07	595	10500	37	389	5.5	50	1.9	2	1.1	17250	14.7	16650	25	0.3
04-35.9403-109.0339-2-15-						0-N09250	49470	-0.09	982	59730	55	-66	10.9	84	4.1	4	1.2	24140	8.7	14910	31	0.4
04-35.9700-109.0356-2-15-						0-N09251	53550	-0.09	603	55230	54	-71	7.5	44	3.3	5	1.1	20760	6.5	16700	16	0.4
04-35.9672-109.0408-2-15-						0-N09252	58080	-0.09	517	28410	66	-78	5.7	31	3.2	5	1.2	17250	9.5	13890	31	0.4
04-35.9894-109.0533-2-15-						0-N09253	57870	-0.11	474	15060	82	-71	8.5	46	4.9	6	1.5	26050	12.8	17900	42	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	
04-	35.6792-	108.8839-	2-	99-	0-	N09195	10820	356	10650	95	-2	7.1	4.4	-189	-1	-1	11.0	4581	58	3.6	66	0.313
04-	35.8922-	108.6522-	2-	15-	0-	N09196	7493	285	13450	60	-2	4.4	3.7	444		-1	7.9	2998	42	3.1	44	0.353
04-	35.9086-	108.6558-	2-	15-	0-	N09197	7149	370	11920	73	-2	7.4	5.9	308	-1	-1	11.1	2924	45	4.1	96	0.281
04-	35.9761-	108.7725-	2-	99-	0-	N09190	-2426	436	9838	64	-2	4.5	3.8	-201	1	-1	8.8	3925	32	5.0	25	0.489
04-	35.9650-	108.7514-	2-	99-	0-	N09191	7557	480	9942	68	-2	4.7	5.4	-218	-1	-1	10.3	4229	39	4.2	58	0.461
04-	35.9239-	108.7586-	2-	99-	0-	N09193	7641	310	10270	52	-2	4.8	5.7	-171	1	-1	11.8	4747	40	5.2	54	0.342
04-	35.9564-	108.6492-	2-	15-	0-	N09194	14160	327	7871	64	-2	5.6	4.0	-166	-1	-1	6.6	2395	39	2.9	40	0.294
04-	35.9689-	108.6667-	2-	15-	0-	N09195	7513	302	12060	93	-2	7.5	5.4	349	2	-1	10.2	3486	52	4.8	129	0.387
04-	35.9839-	108.6875-	2-	15-	0-	N09198	6493	374	10490	52	-2	4.1	4.6	-181	-1	-1	9.4	4125	38	3.6	45	0.359
04-	35.9725-	108.7083-	2-	15-	0-	N09199	12230	463	14670	80	-3	8.8	6.7	473	-1	-1	10.6	3516	62	4.7	109	0.251
04-	35.9717-	108.7108-	2-	15-	0-	N09200	8434	338	13400	67	-2	5.5	4.8	416	-1	-1	9.1	3030	39	4.1	50	0.289
04-	35.9969-	108.7103-	2-	15-	0-	N09201	5766	353	11750	71	-2	5.1	6.0	267	-1	-1	9.8	3729	42	3.7	54	0.354
04-	35.9464-	108.6550-	2-	15-	0-	N09202	6175	548	11420	50	-2	5.6	6.2	-213	-1	1	13.7	6036	55	5.8	70	0.387
04-	35.9417-	108.6706-	2-	99-	0-	N09203	8312	483	11700	79	-2	8.5	7.7	-205	2	-1	16.5	4802	65	7.1	123	0.288
04-	35.9356-	108.6697-	2-	15-	0-	N09204	9497	437	11390	69	-2	7.3	6.0	-226	-1	-1	13.7	3869	52	5.8	71	0.322
04-	35.9172-	108.6614-	2-	15-	0-	N09205	7851	298	12540	63	-2	4.1	3.1	252	-1	-1	6.3	2591	37	2.0	-50	0.386
04-	35.8803-	108.7014-	2-	15-	0-	N09206	10680	409	12910	68	-2	5.5	5.9	-198	-1	-1	14.0	4313	56	4.6	73	0.301
04-	35.9042-	108.7439-	2-	99-	0-	N09207	5116	467	9680	61	-2	6.5	7.2	-196	-1	-1	13.9	4215	44	7.0	78	0.282
04-	35.8525-	108.7358-	2-	15-	0-	N09208	7754	406	10960	66	-2	5.7	5.6	-214	-1	-1	12.3	4474	44	5.1	47	0.304
04-	35.8494-	108.6717-	2-	15-	0-	N09211	5784	756	8855	-21	-2	7.6	12.0	-247	3	1	24.3	9561	86	6.3	93	0.284
04-	35.8628-	108.6461-	2-	15-	0-	N09212	11590	372	8959	76	-2	7.3	5.9	-204	-1	-1	10.3	3689	62	3.3	68	0.355
04-	35.8322-	108.6278-	2-	15-	0-	N09213	8355	342	9544	88	-3	9.6	6.8	-185	-1	-1	13.0	3268	54	2.9	120	0.249
04-	35.8189-	108.7008-	2-	15-	0-	N09214	9029	354	8935	83	-2	6.9	5.5	-198	-1	-1	13.3	3962	52	5.2	-56	0.274
04-	35.7844-	108.7219-	2-	15-	0-	N09217	9861	388	9237	67	-2	7.9	4.8	-203	-1	-1	11.7	4204	69	3.8	56	0.330
04-	35.7631-	108.7300-	2-	15-	0-	N09219	15100	382	8412	66	-3	8.3	5.0	-198	-1	-1	11.4	4668	72	4.1	84	0.336
04-	35.8011-	108.6650-	2-	15-	0-	N09221	10210	388	9477	105	-3	9.9	6.7	-190	-1	-1	16.3	3987	67	4.8	123	0.239
04-	35.7783-	108.6656-	2-	15-	0-	N09222	11850	348	8889	65	-3	10.6	6.6	-219	1	1	13.9	4333	76	4.2	-109	0.299
04-	35.7739-	108.6506-	2-	15-	0-	N09223	11830	368	7586	83	-2	10.1	6.6	-204	-1	-1	13.7	5164	79	4.1	124	0.302
04-	35.7944-	108.6411-	2-	15-	0-	N09224	13010	343	8637	80	-3	9.1	6.3	-195	-1	-1	13.4	4347	77	3.9	110	0.304
04-	35.7931-	108.6394-	2-	99-	0-	N09225	8687	392	9185	51	-2	8.5	24.4	-188	2	2	60.1	8580	70	12.5	120	0.190
04-	35.7736-	108.6144-	2-	15-	0-	N09227	9366	255	5696	83	-1	6.2	5.1	-183	-1	-1	11.0	3151	45	3.1	97	0.276
04-	35.7917-	108.5483-	2-	15-	0-	N09229	9637	213	4052	-14	-2	4.5	8.1	-142	-1	-1	20.4	2767	37	6.4	62	0.206
04-	35.7894-	108.5267-	2-	15-	0-	N09231	10430	309	6119	82	-2	8.2	6.6	-184	-1	-1	12.0	3620	58	3.8	-82	0.294
04-	35.7786-	108.5056-	2-	15-	0-	N09232	8977	183	4132	37	-2	3.6	3.8	-130	-1	-1	9.8	2834	30	3.3	-47	0.304
04-	35.7917-	108.4772-	2-	15-	0-	N09234	5071	138	5050	-16	-2	4.4	4.4	-115	-1	-1	10.5	2102	30	4.8	66	0.215
04-	35.7961-	108.4508-	2-	15-	0-	N09235	11240	278	6355	93	-2	6.6	5.5	-183	-1	-1	11.4	2771	49	4.0	-49	0.246
04-	35.7956-	108.4531-	2-	15-	0-	N09236	12490	215	5760	51	-2	5.1	5.3	-153	-1	-1	9.4	2880	39	3.5	77	0.278
04-	35.7981-	108.4142-	2-	15-	0-	N09237	9734	220	11460	65	-2	5.7	5.4	-169	-1	-1	10.1	3671	49	4.2	74	0.292
04-	35.8025-	108.4186-	2-	11-	0-	N09238	8874	249	15060	84	-3	8.8	8.3	-193	-1	-1	13.6	3382	51	6.0	123	0.218
04-	35.7956-	108.3778-	2-	15-	0-	N09239	8512	222	10000	72	-2	6.9	5.4	-173	-1	-1	12.8	3389	43	4.0	69	0.234
04-	35.7764-	108.3133-	2-	15-	0-	N09242	8264	198	6762	52	-2	6.4	4.1	-169	-1	-1	9.3	3207	57	2.9		0.390
04-	35.7786-	109.1053-	2-	15-	0-	N09243	12670	277	5424	48	-2	4.8	4.8	-156	-1	-1	7.4	3837	41	3.6		0.351
04-	35.7650-	109.1036-	2-	15-	0-	N09244	11790	271	5726	67	-2	6.7	5.6	-149	-1	-1	10.6	3503	38	6.1	47	0.242
04-	35.7614-	109.1047-	2-	15-	0-	N09245	8208	145	2278	-11		2.8	2.1	-127	-1		3.7	1905	20	1.8	19	0.322
04-	35.7597-	109.0583-	2-	15-	0-	N09246	8571	186	5948	41		2.5	1.7	-150	-1		3.5	1662	19	1.6	29	0.431
04-	35.9200-	109.0169-	2-	15-	0-	N09249	15000	286	8081	41	-1	3.1	2.9	-158	-1		5.5	2629	34	1.6	-18	0.358
04-	35.9231-	109.0172-	2-	15-	0-	N09249	9224	247	6377	48	-2	4.0	3.1	-144	-1	-1	6.6	2002	37	2.6	-34	0.259
04-	35.9403-	109.0339-	2-	15-	0-	N09250	45650	450	8350	59	-2	8.9	-0.9	-222	-1	-1	9.3	2841	49	3.7	66	0.181
04-	35.9700-	109.0356-	2-	15-	0-	N09251	26910	541	8765	70	-2	7.5	5.3	-243	-1	-1	8.1	3452	49	3.4	47	0.263
04-	35.9672-	109.0408-	2-	15-	0-	N09252	19280	709	7617	74	-2	5.9	5.6	-249	-1	-1	11.3	4278	51	4.0	63	0.282
04-	35.9894-	109.0533-	2-	15-	0-	N09253	16780	665	5604	80	-3	9.0	6.0	-234	-1	-1	11.6	3524	48	4.5	70	0.226

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.9933-	109.0322-	2-	15-	0-	N09255-	09/28/78-	11-	23-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.02
04-	35.9278-	109.0289-	2-	15-	0-	N09256-	09/28/78-	11-	24-	-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87
04-	35.8947-	109.0214-	2-	15-	0-	N09257-	09/28/78-	11-	24-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
04-	35.8658-	109.0211-	2-	15-	0-	N09258-	09/28/78-	11-	25-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-4-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.86
04-	35.8361-	109.0167-	2-	15-	0-	N09259-	09/28/78-	11-	25-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.94
04-	35.7811-	109.0306-	2-	15-	0-	N09260-	09/28/78-	12-	26-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.07
04-	35.7886-	109.0186-	2-	15-	0-	N09261-	09/28/78-	12-	26-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.56
04-	35.7900-	109.0561-	2-	15-	0-	N09262-	09/28/78-	12-	26-	-	-	-	-	-	6-1-6-4-6-	-1-	-2-1-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.32
04-	35.8197-	109.0592-	2-	15-	0-	N09264-	09/28/78-	13-	27-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-4-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.35
04-	35.8819-	109.0586-	2-	15-	0-	N09266-	09/28/78-	13-	27-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.49
04-	35.9086-	109.0533-	2-	15-	0-	N09267-	09/28/78-	14-	27-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29
04-	35.8919-	109.0800-	2-	99-	0-	N09268-	09/28/78-	16-	26-	-C-	-	-	-	-	6-1-6-4-6-	-1-	- -3-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.89
04-	35.9061-	109.1142-	2-	15-	0-	N09269-	09/28/78-	16-	26-	-	-	-	-	-	8-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.85
04-	35.9069-	109.0878-	2-	99-	0-	N09270-	09/28/78-	16-	26-	-C-	-	-	-	-	10-1-6-4-6-	-1-	- -2-2-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.06
04-	35.8972-	109.1539-	2-	15-	0-	N09271-	09/29/78-	9-	19-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.84
04-	35.9583-	109.1736-	2-	99-	0-	N09272-	09/29/78-	9-	19-	-C-	-	-	-	-	6-1-6-4-6-	-1-	- -1-4-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.63
04-	35.9842-	109.2125-	2-	99-	0-	N09273-	09/29/78-	10-	21-	-C-	-	-	-	-	9-1-6-4-6-	-1-	- -1-4-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
04-	35.9369-	109.1389-	2-	99-	0-	N09274-	09/29/78-	10-	21-	-C-	-	-	-	-	9-1-6-4-6-	-1-	- -1-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.53
04-	35.9822-	109.1008-	2-	15-	0-	N09275-	09/29/78-	10-	21-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.63
04-	35.9972-	109.1103-	2-	15-	0-	N09276-	09/29/78-	11-	23-	-	-	-	-	-	4-1-6-4-6-	-1-	-2-1-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.76
04-	35.9292-	109.2367-	2-	15-	0-	N09277-	09/29/78-	11-	23-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.34
04-	35.9686-	109.2211-	2-	15-	0-	N09278-	09/29/78-	11-	24-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
04-	35.9044-	109.1744-	2-	99-	0-	N09279-	09/29/78-	12-	25-	-C-	-	-	-	-	7-1-6-4-6-	-1-	- -2-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.04
04-	35.8606-	109.2467-	2-	15-	0-	N09280-	09/29/78-	12-	26-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.33
04-	35.8175-	109.2483-	2-	15-	0-	N09281-	09/29/78-	13-	26-	-	-	-	-	-	6-1-6-4-6-	-1-	-2-1-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.23
04-	35.7725-	109.2481-	2-	15-	0-	N09282-	09/29/78-	13-	26-	-	-	-	-	-	4-1-6-4-6-	-1-	-2-1-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
04-	35.8825-	109.1744-	2-	99-	0-	N09283-	09/29/78-	14-	27-	-C-	-	-	-	-	7-1-6-4-6-	-1-	- -1-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.67
04-	35.8781-	109.1681-	2-	15-	0-	N09284-	09/29/78-	14-	27-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
04-	35.8675-	109.1489-	2-	15-	0-	N09285-	09/29/78-	14-	27-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.05
04-	35.8564-	109.1753-	2-	15-	0-	N09286-	09/29/78-	15-	27-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.83
04-	35.8419-	109.1933-	2-	99-	0-	N09288-	09/29/78-	15-	27-	-C-	-	-	-	-	10-1-6-4-6-	-1-	- -1-4-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.46
04-	35.8139-	109.1600-	2-	15-	0-	N09291-	09/29/78-	16-	25-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.27
04-	35.8047-	109.1475-	2-	15-	0-	N09293-	09/29/78-	16-	26-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.87
04-	35.8100-	109.1083-	2-	15-	0-	N09296-	09/30/78-	9-	20-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.72
04-	35.8525-	109.0986-	2-	15-	0-	N09297-	09/30/78-	9-	20-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-4-4-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
04-	35.8419-	109.1178-	2-	15-	0-	N09298-	09/30/78-	10-	22-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.91
04-	35.8581-	109.1217-	2-	15-	0-	N09299-	09/30/78-	10-	22-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.26
04-	35.8561-	109.1256-	2-	15-	0-	N09300-	09/30/78-	10-	22-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.25
04-	35.8578-	109.1322-	2-	15-	0-	N09301-	09/30/78-	10-	23-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.56
04-	35.7483-	109.7031-	2-	15-	0-	N09302-	09/30/78-	11-	24-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.03
04-	35.7203-	108.6714-	2-	15-	0-	N09303-	09/30/78-	12-	25-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.02
04-	35.7172-	108.6797-	2-	15-	0-	N09304-	09/30/78-	12-	25-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.59
04-	35.6844-	108.6928-	2-	15-	0-	N09307-	09/30/78-	13-	26-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.18
04-	35.6925-	108.7147-	2-	15-	0-	N09308-	09/30/78-	13-	26-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.74
04-	35.6794-	108.7411-	2-	15-	0-	N09309-	09/30/78-	14-	26-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.72
04-	35.6894-	108.7428-	2-	15-	0-	N09310-	09/30/78-	14-	27-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.39
04-	35.6686-	108.7117-	2-	15-	0-	N09311-	09/30/78-	14-	27-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.18
04-	35.7239-	108.6353-	2-	15-	0-	N09312-	09/30/78-	15-	27-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.83
04-	35.7497-	108.6333-	2-	15-	0-	N09314-	09/30/78-	15-	26-	-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.83
04-	35.7272-	108.6444-	2-	15-	0-	N09315-	09/30/78-	16-	26-	-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.51
04-	35.6944-	108.6456-	2-	15-	0-	N09316-	09/30/78-	16-	25-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-1-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.51

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

(2)

DOE SAMPLE NUMBER						LBL 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
04-35.9933-109.0322-2-15-					0-	N09255	-5	-5	-5	30	-20	16	-5	-10	-15	1	32
04-35.9278-109.0289-2-15-					0-	N09256	-5	-5	-5	13	-20	-15	10	-10	-15	1	20
04-35.8947-109.0214-2-15-					0-	N09257	-5	-5	-5	12	-20	23	7	-10	-15	1	19
04-35.8658-109.0211-2-15-					0-	N09258	-5	5	-5	16	-20	-15	13	-10	-15	1	25
04-35.8361-109.0167-2-15-					0-	N09259	-5	-5	-5	29	-20	-15	9	-10	-15	2	26
04-35.7811-109.0306-2-15-					0-	N09260	-5	-5	-5	15	-20	-15	-5	-10	-15	1	15
04-35.7886-109.0186-2-15-					0-	N09261	-5	-5	-5	14	-20	-15	-5	-10	-15	1	17
04-35.7900-109.0561-2-15-					0-	N09262	-5	-5	-5	20	-20	-15	10	-10	-15	1	12
04-35.8197-109.0592-2-15-					0-	N09264	-5	-5	-5	35	-20	-15	-5	-10	-15	1	16
04-35.8819-109.0586-2-15-					0-	N09266	-5	-5	-5	24	-20	133	-5	-10	-15	2	23
04-35.9086-109.0533-2-15-					0-	N09267	-5	.5	-5	20	-20	-15	8	-10	-15	2	20
04-35.8919-109.0800-2-99-					0-	N09268	-5	-5	-5	25	-20	-15	8	-10	-15	2	27
04-35.9061-109.1142-2-15-					0-	N09269	14	-5	10	25	-20	56	-5	-10	-15	2	13
04-35.9069-109.0878-2-99-					0-	N09270	-5	-5	-5	20	-20	258	11	-10	-15	2	20
04-35.8972-109.1539-2-15-					0-	N09271	-5	-5	-5	22	-20	-15	15	-10	-15	1	15
04-35.9583-109.1736-2-99-					0-	N09272	-5	6	-5	23	-20	-15	10	-10	-15	1	30
04-35.9842-109.2125-2-99-					0-	N09273	-5	-5	-5	28	-20	-15	-5	-10	-15	1	17
04-35.9369-109.1389-2-99-					0-	N09274	-5	-5	-5	16	-20	-15	12	-10	-15	1	24
04-35.9822-109.1009-2-15-					0-	N09275	-5	-5	-5	18	-20	-15	10	-10	-15	1	18
04-35.9972-109.1103-2-15-					0-	N09276	-5	5	-5	19	-20	-15	-5	-10	-15	-1	12
04-35.9292-109.2367-2-15-					0-	N09277	-5	-5	-5	23	-20	-15	6	-10	-15	1	24
04-35.9686-109.2211-2-15-					0-	N09278	-5	7	-5	26	-20	-15	-5	-10	-15	1	17
04-35.9044-109.1744-2-99-					0-	N09279	-5	-5	-5	15	-20	-15	-5	-10	-15	2	13
04-35.8606-109.2467-2-15-					0-	N09280	-5	-5	-5	26	-20	20	12	-10	-15	2	20
04-35.8175-109.2483-2-15-					0-	N09281	-5	7	-5	26	-20	-15	8	-10	-15	1	11
04-35.7725-109.2481-2-15-					0-	N09282	-5	-5	-5	14	-20	-15	6	-10	-15	-1	13
04-35.8825-109.1744-2-99-					0-	N09283										1	14
04-35.8781-109.1681-2-15-					0-	N09284	-5	5	-5	14	-20	-15	-5	-10	-15	1	11
04-35.8675-109.1489-2-15-					0-	N09285	-5	7	-5	29	-20	-15	-5	-10	-15	2	16
04-35.8564-109.1753-2-15-					0-	N09286	-5	-5	-5	20	-20	-15	-5	-10	-15	1	14
04-35.8419-109.1933-2-99-					0-	N09288	-5	6	-5	14	-20	-15	6	-10	-15	1	23
04-35.8139-109.1600-2-15-					0-	N09291	-5	7	-5	20	-20	-15	8	-10	-15	2	30
04-35.8047-109.1475-2-15-					0-	N09293	-5	-5	-5	-10	-20	-15	15	-10	-15	1	18
04-35.8100-109.1083-2-15-					0-	N09296	-5	-5	-5	20	-20	-15	-5	-10	-15	1	14
04-35.8525-109.0986-2-15-					0-	N09297	-5	6	-5	28	-20	-15	8	-10	-15	2	20
04-35.8419-109.1178-2-15-					0-	N09298	-5	5	-5	27	-20	-15	5	-10	-15	1	19
04-35.8581-109.1217-2-15-					0-	N09299	-5	7	-5	22	-20	-15	-5	-10	-15	1	17
04-35.8561-109.1256-2-15-					0-	N09300	-5	9	-5	26	-20	-15	8	-10	-15	1	17
04-35.8578-109.1322-2-15-					0-	N09301	-5	-5	-5	23	-20	20	-5	-10	-15	2	23
04-35.7483-108.7031-2-15-					0-	N09302	-5	-5	-5	31	-20	18	42	-10	-15	2	34
04-35.7203-108.6714-2-15-					0-	N09303	-5	5	-5	25	-20	25	10	-10	-15	2	33
04-35.7172-108.6797-2-15-					0-	N09304	-5	5	-5	19	-20	-15	8	-10	-15	2	33
04-35.6844-108.6928-2-15-					0-	N09307	-5	-5	-5	23	-20	-15	6	-10	-15	2	33
04-35.6925-108.7147-2-15-					0-	N09308	-5	6	-5	33	-20	-15	9	-10	-15	3	30
04-35.6794-108.7411-2-15-					0-	N09309	-5	5	-5	19	-20	-15	5	-10	-15	2	30
04-35.6894-108.7428-2-15-					0-	N09310	-5	8	-5	18	-20	-15	13	-10	-15	1	18
04-35.6686-108.7117-2-15-					0-	N09311	-5	-5	-5	29	-20	-15	11	-10	-15	2	34
04-35.7239-108.6353-2-15-					0-	N09312	-5	9	-5	23	-20	-15	10	-10	-15	2	35
04-35.7497-108.6333-2-15-					0-	N09314										2	42
04-35.7272-108.6444-2-15-					0-	N09315	-5	6	-5	25	-20	-15	9	-10	-15	2	33
04-35.6944-108.6456-2-15-					0-	N09316	-5	-5	-5	29	-20	-15	12	-10	-15	2	34

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
04-	35.9933-	109.0322-	2-	15-	0-	N09255	49280	-0.09	496	68460	58	-72	7.8	47	3.9	4	1.2	21950	6.6	17210	36	0.4
04-	35.9278-	109.0289-	2-	15-	0-	N09256	37170	-0.06	366	12930	32	-52	3.8	32	2.0	3	0.8	11920	12.8	16190	15	0.3
04-	35.8947-	109.0214-	2-	15-	0-	N09257	35810	-0.08	588	10480	51	-62	6.0	65	1.7	4	1.1	15950	18.1	16910	23	0.4
04-	35.8658-	109.0211-	2-	15-	0-	N09258	43400	-0.09	385	35540	52	-69	6.1	42	3.8	4	1.0	17170	11.7	16740	-8	0.5
04-	35.8361-	109.0167-	2-	15-	0-	N09259	53360	-0.08	511	14540	60	-54	6.3	37	4.8	4	1.2	19880	11.9	17870	21	0.5
04-	35.7811-	109.0306-	2-	15-	0-	N09260	39570	-0.06	603	12020	33	-49	3.6	26	1.9	3	0.9	14520	13.9	20500	13	0.3
04-	35.7886-	109.0186-	2-	15-	0-	N09261	33690	-0.06	441	8960	18	-49	2.3	17	1.6	2	0.7	9968	10.3	18440	13	0.2
04-	35.7900-	109.0561-	2-	15-	0-	N09262	31150	-0.08	505	5704	52	-44	4.9	35	3.9	3	1.2	14500	18.6	13990	17	0.4
04-	35.8197-	109.0592-	2-	15-	0-	N09264	41940	-0.08	424	8933	59	94	7.1	45	3.7	4	1.2	18360	12.7	13290	26	0.4
04-	35.8819-	109.0586-	2-	15-	0-	N09266	50970	-0.09	451	14520	60	-45	12.8	199	3.7	5	1.0	23640	11.1	21910	34	0.3
04-	35.9086-	109.0533-	2-	15-	0-	N09267	56760	-0.09	1556	18970	86	-66	6.8	51	3.0	6	1.6	23480	30.1	9403	40	0.7
04-	35.8919-	109.0800-	2-99-		0-	N09268	41810	-0.09	333	35580	52	-69	5.9	46	2.7	4	1.2	17130	11.8	18570	17	0.4
04-	35.9061-	109.1142-	2-	15-	0-	N09269	21920	-0.04	344	5198	88	-36	13.2	692	-1.7	8	1.9	154800	72.9	15160	37	1.1
04-	35.9069-	109.0878-	2-99-		0-	N09270	55900	-0.05	426	17480	55	133	20.3	222	6.0	4	1.4	28330	9.0	31120	26	0.4
04-	35.8972-	109.1539-	2-	15-	0-	N09271	34700	-0.07	410	5015	28	-37	2.5	37	2.0	3	0.7	9713	10.2	22000	16	0.3
04-	35.9583-	109.1736-	2-99-		0-	N09272	40770	-0.10	454	5313	72	-68	7.6	46	5.8	5	1.3	19980	19.7	19260	45	0.5
04-	35.9842-	109.2125-	2-99-		0-	N09273	45420	-0.09	394	5118	75	-57	7.6	48	4.0	6	1.2	19210	16.6	15360	43	0.5
04-	35.9369-	109.1389-	2-99-		0-	N09274	48120	-0.08	506	4864	52	-57	4.9	35	3.6	4	1.0	16000	13.3	20670	25	0.4
04-	35.9822-	109.1008-	2-	15-	0-	N09275	40750	-0.08	532	4275	48	-66	4.0	37	1.7	4	0.9	11310	15.9	15830	21	0.4
04-	35.9972-	109.1103-	2-	15-	0-	N09276	26860	-0.07	360	2295	35	-51	3.4	27	1.9	2	0.8	10920	17.5	13980	-4	0.4
04-	35.9292-	109.2367-	2-	15-	0-	N09277	37980	-0.09	554	4628	103	-64	7.8	61	3.3	6	1.4	20550	44.9	14150	52	0.8
04-	35.9686-	109.2211-	2-	15-	0-	N09278	37250	-0.07	438	4626	61	-51	5.1	32	2.7	5	1.0	13860	16.3	12880	32	0.5
04-	35.9044-	109.1744-	2-99-		0-	N09279	29650	-0.06	425	3190	26	-38	2.1	18	1.4	2	0.6	6335	5.4	19010	-5	0.2
04-	35.8606-	109.2467-	2-	15-	0-	N09280	52490	-0.12	594	7398	97	-71	11.3	62	5.5	6	1.9	25110	13.2	17030	50	0.6
04-	35.8175-	109.2483-	2-	15-	0-	N09281	31090	-0.06	254	3284	41	-44	3.6	36	-0.8	3	0.7	11460	16.3	11340	22	0.4
04-	35.7725-	109.2481-	2-	15-	0-	N09282	28760	-0.06	326	3294	49	-47	3.4	45	1.7	5	0.9	9616	22.6	11510	23	0.5
04-	35.8825-	109.1744-	2-99-		0-	N09283	33230	-0.06	498	1870	32	-37	2.3	25	1.3	3	0.7	7733	10.2	28390	15	0.3
04-	35.8781-	109.1681-	2-15-		0-	N09284	28560	-0.03	383	2089	32	-33	2.0	39	1.5	3	0.9	11790	15.8	21630	15	0.3
04-	35.8675-	109.1489-	2-15-		0-	N09285	42320	-0.07	393	7771	52	78	5.1	47	2.2	4	1.1	14900	11.6	25370	12	0.4
04-	35.8564-	109.1753-	2-15-		0-	N09286	29140	-0.03	387	-314	35	-35	2.3	41	1.9	3	0.8	9714	13.8	21320	13	0.3
04-	35.8419-	109.1933-	2-99-		0-	N09288	34590	-0.03	505	13880	34	-32	2.6	45	2.9	3	0.5	12040	13.6	28370	14	0.3
04-	35.8139-	109.1600-	2-15-		0-	N09291	56420	-0.09	488	7584	69	-67	8.6	61	5.9	5	1.6	24830	14.1	24120	40	0.4
04-	35.8047-	109.1475-	2-15-		0-	N09293	30890	-0.06	570	6385	54	-50	4.1	56	-0.9	4	1.3	20790	33.4	16330	22	0.5
04-	35.8100-	109.1083-	2-15-		0-	N09296	39360	-0.06	456	3252	48	-49	4.1	45	2.4	4	1.1	14320	20.3	20580	22	0.5
04-	35.8525-	109.0986-	2-15-		0-	N09297	47830	-0.07	435	3140	52	-49	4.2	50	3.8	5	0.9	14390	13.4	24260	21	0.4
04-	35.8419-	109.1178-	2-15-		0-	N09298	42800	-0.07	496	4296	57	-59	6.7	57	3.6	4	1.2	17050	13.3	24220	-7	0.3
04-	35.8581-	109.1217-	2-15-		0-	N09299	38080	-0.06	412	2670	51	-47	4.8	47	3.2	4	1.0	13160	19.0	23300	25	0.5
04-	35.8561-	109.1256-	2-15-		0-	N09300	38620	-0.06	406	3132	43	-46	4.5	48	2.3	4	1.1	11750	17.2	23370	22	0.4
04-	35.8578-	109.1322-	2-15-		0-	N09301	45630	-0.07	405	3656	54	-50	4.5	48	3.2	5	1.1	13810	14.1	23520	22	0.4
04-	35.7483-	108.7031-	2-15-		0-	N09302	77910	-0.12	742	13030	94	-82	13.8	60	6.3	6	1.9	39100	16.3	21780	55	0.6
04-	35.7203-	108.6714-	2-15-		0-	N09303	72080	-0.09	702	9203	92	-64	9.6	49	7.6	6	1.7	25480	15.5	19170	39	0.5
04-	35.7172-	108.6797-	2-15-		0-	N09304	52450	-0.07	1090	8694	66	-71	8.0	31	3.1	6	1.5	17580	15.4	21360	32	0.5
04-	35.6844-	108.6928-	2-15-		0-	N09307	54090	-0.07	923	5251	74	-74	6.7	29	3.7	5	1.2	16000	18.8	21650	36	0.6
04-	35.6925-	108.7147-	2-15-		0-	N09308	62720	-0.10	765	7105	90	-78	12.6	34	6.7	6	1.8	26880	10.2	21420	40	0.5
04-	35.6794-	108.7411-	2-15-		0-	N09309	51890	-0.08	945	5491	90	-71	7.6	41	3.8	6	1.5	17880	33.3	20270	44	0.7
04-	35.6894-	108.7428-	2-15-		0-	N09310	56520	-0.07	733	5166	74	-67	6.4	26	3.5	5	1.4	15270	15.6	21750	36	0.4
04-	35.6686-	108.7117-	2-15-		0-	N09311	63590	-0.09	740	6501	77	-79	9.1	34	4.9	5	1.4	19850	8.0	21600	27	0.4
04-	35.7239-	108.6353-	2-15-		0-	N09312	54760	-0.09	844	6839	91	-70	9.6	42	5.9	5	1.8	22460	17.1	22420	43	0.5
04-	35.7497-	108.6333-	2-15-		0-	N09314	67550	-0.09	747	8700	94	-68	10.1	35	5.9	5	1.7	24950	9.4	19840	40	0.5
04-	35.7272-	108.6444-	2-15-		0-	N09315	60660	-0.08	790	9269	67	111	8.0	32	4.6	6	1.3	17660	10.8	20670	35	0.5
04-	35.6944-	108.6456-	2-15-		0-	N09316	61160	-0.09	800	11530	73	172	7.7	31	4.5	6	1.3	17510	13.8	19760	30	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	
04-	35.9933-	109.0322-2-15-			0-	N09255	26880	515	8203	48	-2	8.0	4.9	429	-1	-1	8.7	2962	46	3.2	53	0.232
04-	35.9278-	109.0289-2-15-			0-	N09256	14970	302	7809	56	-1	3.9	2.6	-166	-1		4.8	2950	32	2.7	-16	0.390
04-	35.8947-	109.0214-2-15-			0-	N09257	16200	405	7100	51	-2	4.7	4.1	-178	-1	-1	6.4	3755	48	3.6	72	0.406
04-	35.8658-	109.0211-2-15-			0-	N09258	20660	344	9023	62	-2	6.8	5.3	-173	-1	-1	8.9	2491	33	4.4	50	0.209
04-	35.8361-	109.0167-2-15-			0-	N09259	10890	275	6525	66	-2	6.7	5.2	-175	-1	-1	11.3	3290	55	5.2	80	0.260
04-	35.7811-	109.0306-2-15-			0-	N09260	7736	320	6319	64	-1	3.2	3.4	-166			5.1	2765	43	2.7	37	0.406
04-	35.7886-	109.0186-2-15-			0-	N09261	6411	234	4677	61	-1	2.4	2.0	-137			3.5	1984	29	-1.2	-23	0.446
04-	35.7900-	109.0561-2-15-			0-	N09262	4519	161	4344	78	-2	4.5	4.3	-120	-1	-1	9.4	2279	35	2.8	50	0.247
04-	35.8197-	109.0592-2-15-			0-	N09264	8867	313	3461	60	-2	6.0	4.9	-172	-1	-1	8.9	2814	47	4.0	-32	0.264
04-	35.8819-	109.0586-2-15-			0-	N09266	42070	393	3442	70	-2	7.3	5.0	-197	-1	-1	9.5	3576	53	3.6	-74	0.262
04-	35.9086-	109.0533-2-15-			0-	N09267	20290	470	7192	48	-2	6.4	6.5	-197	-1	-1	13.5	4801	58	4.9		0.318
04-	35.8919-	109.0800-2-99-			0-	N09268	24250	346	9018	59	-2	6.7	4.3	-174	-1	-1	7.7	2974	29	2.8	55	0.245
04-	35.9061-	109.1142-2-15-			0-	N09269	13610	371	1198	-32	-1	5.3	6.8	-163	-1	-1	20.6	4477	313	9.0	-21	0.478
04-	35.9069-	109.0878-2-99-			0-	N09270	47220	573	3119	-30	-1	9.1	6.2	-267	-1	-1	9.3	3196	53	3.5	61	0.222
04-	35.8972-	109.1539-2-15-			0-	N09271	6381	206	2155	57	-2	3.3	2.5	-129	-1		4.3	2619	27	2.9	-50	0.428
04-	35.9583-	109.1736-2-99-			0-	N09272	8595	475	7897	46	-2	6.5	5.5	-200	-1	-1	10.7	3457	42	4.9	43	0.246
04-	35.9842-	109.2125-2-99-			0-	N09273	11440	452	6217	78	-2	7.2	4.9	-220	-1		10.8	4301	53	4.2	78	0.269
04-	35.9369-	109.1389-2-99-			0-	N09274	8745	351	7421	-18	-2	5.4	4.6	-195	-1	-1	8.3	3866	47	3.2	63	0.305
04-	35.9822-	109.1008-2-15-			0-	N09275	-2457	376	8355	52	-2	3.7	3.7	-186	-1	-1	7.5	3776	37	3.9	-22	0.351
04-	35.9972-	109.1103-2-15-			0-	N09276	3571	167	5926	49	-1	3.2	3.2	-121	-1		6.0	2291	25	2.7	28	0.293
04-	35.9292-	109.2367-2-15-			0-	N09277	8760	569	6943	63	-2	6.5	7.1	-259	-1	1	15.3	4306	51	6.2	66	0.284
04-	35.9686-	109.2211-2-15-			0-	N09278	7512	493	5425	37	-2	5.0	4.9	-200	-1	-1	7.9	4342	36	3.8	40	0.329
04-	35.9044-	109.1744-2-99-			0-	N09279	3567	119	3199	36	-1	2.2	2.0	-108			3.5	1725	21	-1.1	-17	0.297
04-	35.8606-	109.2467-2-15-			0-	N09280	12060	634	6057	55	-3	9.7	8.9	-233	-1	-1	16.3	4715	59	4.9	89	0.204
04-	35.8175-	109.2483-2-15-			0-	N09281	4181	251	5076	44	-1	4.2	3.0	-153	-1		6.4	2677	26	3.3	46	0.348
04-	35.7725-	109.2481-2-15-			0-	N09282	6237	276	6790	-13	-1	3.5	4.6	-152			8.6	3946	33	3.6	41	0.349
04-	35.8825-	109.1744-2-99-			0-	N09283	4858	168	2429	50	-1	2.6	1.9	-119			4.1	2369	25	-1.1	-36	0.407
04-	35.8781-	109.1681-2-15-			0-	N09284	3859	119	1717	55	-1	2.7	2.6	-110	-1		5.5	2143	27	2.1	-20	0.345
04-	35.8675-	109.1489-2-15-			0-	N09285	9751	272	4949	61	-2	5.6	4.3	-176	-1	-1	6.9	2897	30	4.2	57	0.297
04-	35.8564-	109.1753-2-15-			0-	N09286	4023	146	1542	37	-1	2.8	2.6	-119	-1	-1	5.7	2493	23	2.3		0.321
04-	35.8419-	109.1933-2-99-			0-	N09288	3212	83	1244	44	-1	3.2	3.0	-94	-1	-1	5.6	1865	22	2.4	28	0.261
04-	35.8139-	109.1600-2-15-			0-	N09291	12600	418	6775	61	-2	8.6	6.6	-197	-1	-1	10.5	3546	44	3.7	87	0.216
04-	35.8047-	109.1475-2-15-			0-	N09293	4620	273	5976	47	-1	3.9	4.2	-165	1	-1	8.3	3611	50	5.1	33	0.346
04-	35.8100-	109.1083-2-15-			0-	N09296	5646	326	6783	45	-1	4.4	4.3	-164	-1	-1	8.8	3869	36	4.2	80	0.309
04-	35.8525-	109.0986-2-15-			0-	N09297	10470	213	5465	50	-2	5.4	3.2	-137	-1	-1	6.9	3944	35	2.6	41	0.377
04-	35.8419-	109.1178-2-15-			0-	N09298	7444	327	6242	98	-2	6.4	4.7	-167	-1	-1	9.0	2879	34	4.2	61	0.212
04-	35.8581-	109.1217-2-15-			0-	N09299	9113	238	5711	56	-1	4.6	4.3	-155	-1	-1	7.4	3259	33	3.5	-11	0.305
04-	35.8561-	109.1256-2-15-			0-	N09300	7147	246	5873	63	-1	4.3	4.0	-149		-1	7.5	3566	32	3.7	43	0.300
04-	35.8578-	109.1322-2-15-			0-	N09301	8213	209	5376	37	-2	5.4	4.2	-138	1	-1	8.0	3776	41	3.7	72	0.320
04-	35.7483-	108.7031-2-15-			0-	N09302	11770	524	10070	138	-3	13.2	7.9	-228	-1	-1	16.9	4630	88	3.3	131	0.238
04-	35.7203-	108.6714-2-15-			0-	N09303	9921	326	8830	103	-2	11.0	7.4	-206	-1	-1	17.3	4221	75	5.4	113	0.232
04-	35.7172-	108.6797-2-15-			0-	N09304	8395	397	12280	80	-2	6.3	6.1	-209	-1	-1	11.4	4087	48	3.4	80	0.315
04-	35.6844-	108.6928-2-15-			0-	N09307	7539	336	11910	70	-2	6.0	5.6	-183	-1	-1	12.5	3993	50	5.2	91	0.334
04-	35.6925-	108.7147-2-15-			0-	N09308	10250	315	10490	103	-2	10.3	7.0	-187	-1	1	15.0	4258	70	4.7	-59	0.249
04-	35.6794-	108.7411-2-15-			0-	N09309	7319	334	11940	87	-2	6.7	5.1	-209	-1	-1	14.1	4481	49	7.1	77	0.335
04-	35.6894-	108.7428-2-15-			0-	N09310	7153	309	12920	77	-2	5.9	5.1	-191	-1	-1	12.5	4296	54	3.9	72	0.351
04-	35.6686-	108.7117-2-15-			0-	N09311	8399	346	11970	66	-2	7.4	5.1	-196	-1	-1	10.7	4778	57	3.9	-21	0.391
04-	35.7239-	108.6353-2-15-			0-	N09312	5847	293	9312	95	-2	8.7	6.7	-174	-1	-1	15.7	3701	53	4.6	87	0.244
04-	35.7497-	108.6333-2-15-			0-	N09314	9886	317	9535	96	-2	9.8	7.0	-208	-1	-1	15.1	3695	77	4.7	116	0.254
04-	35.7272-	108.6444-2-15-			0-	N09315	8000	272	7501	65	-2	7.4	4.8	-179	-1	-1	11.2	4326	59	4.1	-23	0.313
04-	35.6944-	108.6456-2-15-			0-	N09316	10060	296	13570	70	-2	7.2	5.9	428	-1	-1	12.8	4637	64	2.8	97	0.352

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU,ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.7078-	108.5233-	2-	15-	0-	N09318-	10/01/78-	9-	20-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	1-	4-	2-	2-	-1-	-	-	-	-	12.44
04-	35.7417-	108.5464-	2-	15-	0-	N09319-	10/01/78-	10-	22-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	3-	2-	-1-	-	-	-	-	3.45
04-	35.7414-	108.5483-	2-	15-	0-	N09320-	10/01/78-	10-	22-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	3-	2-	-1-	-	-	-	-	3.97
04-	35.7422-	108.5497-	2-	15-	0-	N09321-	10/01/78-	10-	22-		-	-	-	-	-	15-	1-	6-	4-	6-	-1-	-	2-	3-	3-	3-	2-	-1-	-	-	-	-	3.66
04-	35.7214-	108.6247-	2-	15-	0-	N09322-	10/01/78-	11-	24-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	1-	2-	2-	2-	-1-	-	-	-	-	4.60
04-	35.6797-	108.5886-	2-	15-	0-	N09323-	10/01/78-	12-	25-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	2-	2-	-1-	-	-	-	-	4.16
04-	35.6619-	108.6056-	2-	15-	0-	N09324-	10/01/78-	12-	26-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	1-	2-	1-	2-	-1-	-	-	-	-	4.00
04-	35.6811-	108.5572-	2-	15-	0-	N09326-	10/01/78-	13-	27-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	3.57
04-	35.6814-	108.5556-	2-	15-	0-	N09327-	10/01/78-	13-	27-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	3.47
04-	35.6664-	108.5097-	2-	15-	0-	N09328-	10/01/78-	13-	27-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	3.59
04-	35.6650-	108.5100-	2-	15-	0-	N09329-	10/01/78-	13-	27-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	3.62
04-	35.7731-	109.5203-	2-	15-	0-	N09332-	10/01/78-	14-	27-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	3-	2-	-1-	-	-	-	-	3.80
04-	35.6731-	108.4817-	2-	15-	0-	N09333-	10/01/78-	15-	26-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	2-	2-	-1-	-	-	-	-	4.42
04-	35.6733-	108.4794-	2-	15-	0-	N09334-	10/01/78-	15-	27-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	2-	2-	-1-	-	-	-	-	5.14
04-	35.6708-	108.4744-	2-	15-	0-	N09335-	10/01/78-	15-	26-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	3.33
04-	35.7492-	108.4050-	2-	15-	0-	N09336-	10/01/78-	16-	25-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	1-	2-	3-	2-	-1-	-	-	-	-	3.44
04-	35.7472-	108.4031-	2-	15-	0-	N09337-	10/01/78-	16-	25-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	1-	2-	3-	2-	-1-	-	-	-	-	2.61
04-	35.7489-	108.4014-	2-	15-	0-	N09338-	10/01/78-	16-	25-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	1-	2-	3-	2-	-1-	-	-	-	-	2.75
04-	35.7472-	108.3786-	2-	15-	0-	N09340-	10/01/78-	17-	24-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	2.61
04-	35.7333-	108.3775-	2-	99-	0-	N09341-	10/01/78-	17-	24-		-C-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	-	-1-	2-	2-	2-	-1-	-	-	-	-	2.94
04-	35.7486-	108.4436-	2-	15-	0-	N09342-	10/01/78-	18-	24-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	1-	3-	2-	2-	-1-	-	-	-	-	2.77
04-	35.7836-	108.3744-	2-	15-	0-	N09343-	10/01/78-	18-	23-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	2-	2-	-1-	-	-	-	-	3.35
04-	35.7981-	108.6106-	2-	15-	0-	N09344-	10/03/78-	13-	26-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.02
04-	35.8272-	108.6069-	2-	15-	0-	N09345-	10/03/78-	13-	26-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.91
04-	35.8228-	108.5850-	2-	15-	0-	N09347-	10/03/78-	13-	26-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	4.01
04-	35.8214-	108.5631-	2-	99-	0-	N09348-	10/03/78-	14-	26-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	-	-3-	3-	1-	1-	-1-	-	-	-	-	3.65
04-	35.8211-	108.5553-	2-	15-	0-	N09350-	10/03/78-	14-	26-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	2-	-1-	-	-	-	-	2.75
04-	35.8197-	108.5497-	2-	15-	0-	N09351-	10/03/78-	14-	25-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.57
04-	35.8442-	108.5586-	2-	15-	0-	N09352-	10/03/78-	15-	25-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.89
04-	35.8611-	108.5786-	2-	15-	0-	N09353-	10/03/78-	15-	26-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.83
04-	35.8583-	108.5550-	2-	15-	0-	N09354-	10/03/78-	15-	25-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.85
04-	35.8914-	108.5172-	2-	15-	0-	N09356-	10/03/78-	16-	25-		-	-	-	-	-	17-	1-	6-	4-	6-	-1-	-	2-	3-	3-	2-	1-	-1-	-	-	-	-	3.76
04-	35.9244-	108.5475-	2-	15-	0-	N09357-	10/03/78-	16-	25-		-	-	-	-	-	23-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.71
04-	35.9256-	108.5611-	2-	15-	0-	N09358-	10/03/78-	16-	24-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.54
04-	35.9239-	108.5731-	2-	15-	0-	N09359-	10/03/78-	16-	24-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.19
04-	35.9139-	108.6086-	2-	15-	0-	N09360-	10/03/78-	17-	24-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.74
04-	35.9000-	108.6042-	2-	15-	0-	N09362-	10/03/78-	17-	24-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.77
04-	35.8914-	108.5769-	2-	15-	0-	N09363-	10/04/78-	9-	23-		-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.16
04-	35.8972-	108.5333-	2-	15-	0-	N09364-	10/04/78-	9-	23-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.67
04-	35.9322-	108.5117-	2-	15-	0-	N09365-	10/04/78-	10-	24-		-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	4.33
04-	35.9569-	108.5261-	2-	15-	0-	N09367-	10/04/78-	10-	24-		-	-	-	-	-	17-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.84
04-	35.9883-	108.5194-	2-	15-	0-	N09368-	10/04/78-	11-	24-		-	-	-	-	-	19-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.59
04-	35.9633-	108.5522-	2-	15-	0-	N09369-	10/04/78-	11-	24-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.52
04-	35.9850-	108.5539-	2-	15-	0-	N09371-	10/04/78-	11-	25-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.23
04-	35.9992-	108.5567-	2-	15-	0-	N09372-	10/04/78-	12-	26-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.87
04-	35.9919-	108.5928-	2-	15-	0-	N09373-	10/04/78-	12-	26-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	3.49
04-	35.9464-	108.6014-	2-	15-	0-	N09374-	10/04/78-	12-	26-		-	-	-	-	-	14-	1-	6-	4-	6-	-1-	-	2-	3-	3-	1-	1-	-1-	-	-	-	-	2.71
04-	35.8269-	108.4311-	2-	99-	0-	N09375-	10/04/78-	13-	26-		-C-	-	-	-	-	15-	1-	6-	4-	6-	-1-	-	-	-4-	4-	2-	1-	-1-	-	-	-	-	3.23
04-	35.7889-	109.7319-	2-	15-	0-	N09376-	09/19/78-	12-	25-		-C-	-	-	-	-	15-	1-	6-	4-	6-	-1-	-	2-	3-	2-	2-	2-	-9-	-	-	-	-	2.05
04-	35.8336-	109.7328-	2-	15-	0-	N09377-	09/19/78-	12-	26-		-C-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-	2-	3-	2-	2-	2-	-9-	-	-	-	-	1.77
04-	35.8206-	109.6933-	2-	15-	0-	N09379-	09/19/78-	12-	26-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-	2-	3-	2-	2-	2-	-9-	-	-	-	-	1.89

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
04	35.7078	108.5233	2	15	0	N09318	-5	-5	-5	-10	-20	26	18	-10	-15	1	13
04	35.7417	108.5464	2	15	0	N09319	-5	5	-5	21	-20	-15	9	-10	-15	2	26
04	35.7414	108.5483	2	15	0	N09320	-5	-5	-5	26	-20	-15	26	-10	-15	2	24
04	35.7422	108.5497	2	15	0	N09321	-5	-5	-5	19	-20	-15	22	-10	-15	2	29
04	35.7214	108.6247	2	15	0	N09322	-5	6	-5	27	-20	-15	26	-10	-15	2	30
04	35.6797	108.5886	2	15	0	N09323	-5	-5	-5	18	-20	-15	8	-10	-15	2	25
04	35.6619	108.6056	2	15	0	N09324	-5	-5	-5	33	-20	-15	14	-10	-15	2	35
04	35.6811	108.5572	2	15	0	N09326	-5	-5	-5	21	-20	-15	8	-10	-15	2	29
04	35.6814	108.5556	2	15	0	N09327	-5	6	-5	21	-20	-15	10	-10	-15	2	37
04	35.6664	108.5097	2	15	0	N09328	-5	5	-5	19	-20	-15	15	-10	-15	2	36
04	35.6650	108.5100	2	15	0	N09329	-5	5	-5	26	-20	-15	18	-10	-15	2	36
04	35.7731	108.5203	2	15	0	N09332	-5	-5	-5	27	-20	24	13	-10	-15	2	29
04	35.6731	108.4817	2	15	0	N09333	-5	7	-5	16	-20	-15	7	-10	-15	1	26
04	35.6733	108.4794	2	15	0	N09334	-5	6	-5	15	-20	-15	11	-10	-15	1	23
04	35.6708	108.4744	2	15	0	N09335	-5	-5	-5	30	-20	-15	8	-10	-15	1	27
04	35.7492	108.4050	2	15	0	N09336	-5	-5	-5	24	-20	-15	-5	-10	-15	1	19
04	35.7472	108.4031	2	15	0	N09337	-5	-5	-5	33	-20	-15	5	-10	-15	2	22
04	35.7489	108.4014	2	15	0	N09338	-5	7	-5	17	-20	-15	-5	-10	-15	1	21
04	35.7472	108.3786	2	15	0	N09340	-5	-5	-5	18	-20	-15	-5	-10	-15	1	23
04	35.7333	108.3775	2	99	0	N09341	-5	-5	-5	17	-20	-15	5	-10	-15	1	28
04	35.7486	108.4436	2	15	0	N09342	-5	-5	-5	16	-20	-15	-5	-10	-15	1	22
04	35.7836	108.3744	2	15	0	N09343	-5	8	-5	27	-20	-15	14	-10	-15	2	13
04	35.7981	108.6106	2	15	0	N09344	-5	-5	-5	-10	-20	-15	8	-10	-15	2	13
04	35.8272	108.6069	2	15	0	N09345	-5	-5	-5	40	-20	20	14	-10	-15	2	24
04	35.8228	108.5850	2	15	0	N09347	-5	-5	-5	39	-20	-15	13	-10	-15	2	22
04	35.8214	108.5631	2	99	0	N09348	-5	-5	-5	12	-20	-15	12	-10	-15	1	21
04	35.8211	108.5553	2	15	0	N09350	-5	-5	-5	16	-20	-15	6	-10	-15	1	14
04	35.8197	108.5497	2	15	0	N09351	-5	-5	-5	32	-20	-15	9	-10	-15	2	30
04	35.8442	108.5586	2	15	0	N09352	-5	-5	-5	27	-20	15	17	-10	-15	2	26
04	35.8611	108.5786	2	15	0	N09353	-5	-5	-5	33	-20	-15	17	-10	-15	2	19
04	35.8583	108.5550	2	15	0	N09354	-5	-5	-5	29	-20	-15	19	-10	-15	2	19
04	35.8914	108.5172	2	15	0	N09356	-5	5	-5	30	-20	-15	12	-10	-15	2	32
04	35.9244	108.5475	2	15	0	N09357	-5	-5	-5	30	-20	-15	12	-10	-15	2	29
04	35.9256	108.5611	2	15	0	N09358	-5	-5	-5	24	-20	-15	13	-10	-15	2	28
04	35.9239	108.5731	2	15	0	N09359	-5	5	-5	12	-20	-15	9	-10	-15	1	25
04	35.9139	108.6086	2	15	0	N09360	-5	9	-5	24	-20	-15	14	-10	-15	2	49
04	35.9000	108.6042	2	15	0	N09362	-5	5	-5	27	-20	16	14	-10	17	2	24
04	35.8914	108.5769	2	15	0	N09363	-5	-5	-5	18	-20	19	10	-10	-15	2	24
04	35.8972	108.5333	2	15	0	N09364	-5	-5	-5	18	-20	-15	16	-10	-15	2	21
04	35.9322	108.5117	2	15	0	N09365	-5	6	-5	17	-20	-15	-5	-10	-15	1	17
04	35.9569	108.5261	2	15	0	N09367	-5	-5	-5	25	-20	-15	-5	-10	-15	2	38
04	35.9883	108.5194	2	15	0	N09368	-5	10	-5	27	-20	-15	9	-10	-15	2	28
04	35.9633	108.5522	2	15	0	N09369	-5	-5	-5	24	-20	18	6	-10	-15	2	26
04	35.9850	108.5539	2	15	0	N09371	-5	8	-5	24	-20	-15	13	-10	-15	2	24
04	35.9992	108.5567	2	15	0	N09372	-5	-5	-5	14	-20	15	12	-10	-15	1	22
04	35.9919	108.5928	2	15	0	N09373	-5	7	-5	27	-20	17	9	-10	-15	2	17
04	35.9464	108.6014	2	15	0	N09374	-5	-5	-5	18	-20	-15	-5	-10	-15	1	21
04	35.8269	108.4311	2	99	0	N09375	-5	-5	-5	18	-20	-15	7	-10	-15	1	16
04	35.7889	109.7319	2	15	0	N09376	-5	-5	-5	20	-20	-15	-5	-10	-15	-1	27
04	35.8336	109.7328	2	15	0	N09377	-5	-5	-5	20	-20	-15	-5	-10	-15	1	17
04	35.8206	109.6933	2	15	0	N09379	-5	-5	-5	21	-20	-15	9	-10	-15	1	17

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
04-	35.7078-	108.5233-2-15-			0-	N09318	31490	-0.10	441	3602	318	-50	4.0	149	2.4	14	2.6	17560	167.1	14960	147	2.4
04-	35.7417-	108.5464-2-15-			0-	N09319	49880	-0.07	561	9198	83	-57	6.7	55	3.8	5	1.6	21760	20.9	21140	46	0.6
04-	35.7414-	108.5483-2-15-			0-	N09320	50670	-0.07	805	17730	69	-46	5.4	34	4.5	5	1.1	16240	16.4	21100	39	0.4
04-	35.7422-	108.5497-2-15-			0-	N09321	62340	-0.08	740	11870	69	-68	6.8	33	4.3	5	1.2	17520	10.8	23540	31	0.5
04-	35.7214-	108.6247-2-15-			0-	N09322	63860	-0.11	875	5412	91	-52	8.3	38	9.0	6	1.7	27210	11.0	20700	43	0.5
04-	35.6797-	108.5886-2-15-			0-	N09323	50900	-0.08	1473	9338	78	-57	7.3	51	4.3	5	1.1	22340	24.3	19770	40	0.7
04-	35.6619-	108.6056-2-15-			0-	N09324	65410	-0.08	969	14700	74	-60	9.3	38	5.0	6	1.5	16120	13.7	23350	30	0.5
04-	35.6811-	108.5572-2-15-			0-	N09326	68030	-0.09	923	5993	66	-68	6.0	44	4.7	6	1.4	18780	13.8	19580	29	0.5
04-	35.6814-	108.5556-2-15-			0-	N09327	65430	-0.10	688	6488	84	-69	10.4	53	5.8	6	2.0	27180	19.5	21580	45	0.6
04-	35.6664-	108.5097-2-15-			0-	N09328	60030	-0.08	722	7929	85	-59	6.9	50	6.7	5	1.5	21610	16.0	21390	39	0.6
04-	35.6650-	108.5100-2-15-			0-	N09329	59470	-0.07	756	9168	61	-57	6.0	34	4.3	5	1.3	17360	12.1	22440	31	0.4
04-	35.7731-	108.5203-2-15-			0-	N09332	56920	-0.08	731	9316	69	-63	7.4	31	4.7	6	1.3	16560	11.9	20100	34	0.5
04-	35.6731-	108.4817-2-15-			0-	N09333	45800	-0.09	583	18960	97	-58	5.6	54	4.2	6	1.8	23460	42.1	17220	49	0.8
04-	35.6733-	108.4794-2-15-			0-	N09334	45440	-0.08	629	37360	119	-54	4.9	59	4.2	6	1.7	19460	45.8	18280	47	0.9
04-	35.6708-	108.4744-2-15-			0-	N09335	50520	-0.07	631	4481	64	-52	5.4	39	4.2	5	1.2	17760	20.3	19230	30	0.5
04-	35.7492-	108.4050-2-15-			0-	N09336	35380	-0.07	502	14720	70	-48	3.5	32	2.4	5	1.0	13710	20.3	17180	33	0.5
04-	35.7472-	108.4031-2-15-			0-	N09337	42890	-0.09	473	18550	72	111	7.4	41	4.4	5	1.4	23240	11.9	16740	42	0.5
04-	35.7489-	108.4014-2-15-			0-	N09338	37750	-0.07	433	18640	73	-43	5.4	30	3.5	4	1.1	17650	12.6	15880	37	0.4
04-	35.7472-	108.3786-2-15-			0-	N09340	35040	-0.05	471	7004	50	-41	4.2	31	2.3	4	0.9	14010	18.5	16440	27	0.4
04-	35.7333-	108.3775-2-99-			0-	N09341	36830	-0.07	432	39850	56	-53	4.2	33	2.0	4	0.9	14400	16.8	17890	23	0.4
04-	35.7486-	108.4436-2-15-			0-	N09342	36760	-0.09	478	42630	64	-54	5.9	40	3.2	5	1.2	19960	19.8	14680	36	0.5
04-	35.7836-	108.3744-2-15-			0-	N09343	50320	-0.08	542	14620	79	-52	7.4	39	5.2	5	1.3	20650	15.8	17540	37	0.6
04-	35.7981-	108.6106-2-15-			0-	N09344	43590	-0.06	829	4342	57	130	4.7	27	3.7	4	1.1	13460	16.9	21470	31	0.4
04-	35.8272-	108.6069-2-15-			0-	N09345	71310	-0.09	701	9030	80	129	7.8	35	5.6	6	1.4	22770	12.0	19330	33	0.5
04-	35.8228-	108.5850-2-15-			0-	N09347	80620	-0.11	660	9872	94	-65	12.0	53	9.5	6	1.9	36150	10.3	18790	49	0.6
04-	35.8214-	108.5631-2-99-			0-	N09348	46320	-0.07	856	11320	85	419	6.4	41	4.5	5	1.5	18120	27.4	22130	45	0.7
04-	35.8211-	108.5553-2-15-			0-	N09350	44930	-0.06	835	4258	52	-51	4.4	26	2.5	4	1.0	12880	14.0	21070	29	0.4
04-	35.8197-	108.5497-2-15-			0-	N09351	61810	-0.12	779	9542	79	686	10.7	46	6.6	4	1.6	28360	15.5	19940	53	0.4
04-	35.8442-	108.5586-2-15-			0-	N09352	87050	-0.12	667	9979	90	-56	11.2	49	7.8	6	1.6	35280	7.8	18410	42	0.5
04-	35.8611-	108.5786-2-15-			0-	N09353	55610	-0.09	676	8651	73	-60	7.5	34	4.5	5	1.4	18750	12.2	23130	35	0.4
04-	35.8583-	108.5550-2-15-			0-	N09354	67320	-0.11	791	11510	72	-72	7.3	27	4.4	5	1.3	20920	11.0	19610	34	0.4
04-	35.8914-	108.5172-2-15-			0-	N09356	74160	-0.13	933	10090	99	-60	10.8	43	7.8	5	1.7	33520	13.4	18860	56	0.5
04-	35.9244-	108.5475-2-15-			0-	N09357	69190	-0.10	653	12180	87	-63	8.5	34	6.3	5	1.4	24600	13.8	17200	40	0.4
04-	35.9256-	108.5611-2-15-			0-	N09358	67140	-0.09	632	10370	62	-66	6.8	27	5.1	5	1.2	22300	9.6	17740	36	0.4
04-	35.9239-	108.5731-2-15-			0-	N09359	55960	-0.09	704	15820	65	-73	5.4	21	3.6	5	1.1	16380	13.4	20260	34	0.4
04-	35.9139-	108.6086-2-15-			0-	N09360	65320	-0.12	648	15640	75	-70	10.0	31	6.6	5	1.7	30970	11.6	20160	39	0.5
04-	35.9000-	108.6042-2-15-			0-	N09362	54440	-0.11	658	14480	83	-69	7.9	38	5.5	5	1.6	25790	11.2	20270	42	0.5
04-	35.8914-	108.5769-2-15-			0-	N09363	54590	-0.08	655	15490	57	-72	5.3	32	3.4	4	1.2	16520	13.2	19070	29	0.3
04-	35.8972-	108.5333-2-15-			0-	N09364	68430	-0.11	702	11760	78	-73	8.1	29	5.1	5	1.2	21740	11.4	20020	40	0.4
04-	35.9322-	108.5117-2-15-			0-	N09365	49390	-0.10	849	7036	94	-69	6.6	33	3.8	5	1.8	16920	38.6	21650	50	0.8
04-	35.9569-	108.5261-2-15-			0-	N09367	77620	-0.11	623	13070	79	-64	9.3	44	6.9	5	1.5	30450	9.0	19610	47	0.5
04-	35.9883-	108.5194-2-15-			0-	N09368	73670	-0.10	549	9917	72	-64	7.6	29	6.3	5	1.3	26380	10.0	19930	43	0.5
04-	35.9633-	108.5522-2-15-			0-	N09369	72300	-0.12	541	11080	72	-68	7.5	31	6.1	5	1.3	24290	7.7	19030	35	0.5
04-	35.9850-	108.5539-2-15-			0-	N09371	53920	-0.10	785	9829	73	-68	6.8	32	3.7	4	1.5	20140	16.6	19770	39	0.5
04-	35.9992-	108.5567-2-15-			0-	N09372	50590	-0.08	772	7509	73	-67	5.8	29	3.4	5	1.3	14860	26.7	20810	46	0.6
04-	35.9919-	108.5928-2-15-			0-	N09373	67210	-0.09	657	10070	65	-66	7.1	28	5.1	5	1.1	22460	12.0	22080	36	0.4
04-	35.9464-	108.6014-2-15-			0-	N09374	52070	-0.08	690	13490	50	-72	4.1	20	3.1	4	1.0	13230	11.2	21120	23	0.3
04-	35.8269-	108.4311-2-99-			0-	N09375	54990	-0.10	729	8554	71	-62	7.5	37	4.8	5	1.5	20300	16.0	20870	27	0.5
04-	35.7889-	109.7319-2-15-			0-	N09376	47050	-0.08	500	22520	52	-55	5.6	29	3.0	3	1.0	16180	8.4	20460	16	0.3
04-	35.8336-	109.7328-2-15-			0-	N09377	34080	-0.06	479	17370	25	-56	2.9	28	1.6	2	0.7	10110	11.4	17410	12	0.2
04-	35.8206-	109.6933-2-15-			0-	N09378	41960	-0.07	399	19960	34	-58	3.3	22	1.8	3	0.7	11470	8.3	17730	20	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
04-	35.7078-	108.5233-	2-	15-	0-	N09318	6258	344	4625	-22	-2	10.4	22.1	-153	3	2	67.7	7545	46	18.2	60	0.184
04-	35.7417-	108.5464-	2-	15-	0-	N09319	10580	316	7808	80	-2	7.5	6.7	-185	-1	-1	14.0	3691	52	4.7	97	0.246
04-	35.7414-	108.5483-	2-	15-	0-	N09320	6809	208	5270	70	-2	5.9	4.8	-148	-1	-1	11.7	3835	48	3.8	88	0.339
04-	35.7422-	108.5497-	2-	15-	0-	N09321	11030	278	8917	82	2	6.8	5.2	-175	-1	-1	11.2	4322	61	3.1	61	0.327
04-	35.7214-	108.6247-	2-	15-	0-	N09322	9088	169	4509	93	-2	10.7	8.0	-140	-1	-1	16.0	3695	68	4.7	89	0.288
04-	35.6797-	108.5886-	2-	15-	0-	N09323	8003	359	7775	91	-2	8.4	6.2	-186	-1	-1	12.7	5533	57	5.5	86	0.328
04-	35.6619-	108.6056-	2-	15-	0-	N09324	8136	276	8338	66	-2	8.0	7.2	-182	-1	-1	13.0	4502	67	3.9	114	0.308
04-	35.6811-	108.5572-	2-	15-	0-	N09326	10240	305	8111	53	-2	8.1	5.9	-181	-1	-1	11.7	5068	71	3.8	-52	0.305
04-	35.6814-	108.5556-	2-	15-	0-	N09327	10290	339	8886	88	-2	10.9	7.8	-180	2	-1	15.3	4837	68	5.8	118	0.227
04-	35.6664-	108.5097-	2-	15-	0-	N09328	9210	241	7870	84	-2	8.4	6.5	-179	-1	-1	14.2	3528	54	4.7	94	0.253
04-	35.6650-	108.5100-	2-	15-	0-	N09329	8976	247	8176	77	-2	6.9	5.4	-169	-1	-1	10.9	4204	59	2.9	82	0.332
04-	35.7731-	108.5203-	2-	15-	0-	N09332	9198	289	7111	-18	-2	6.5	6.4	-175	-1	-1	11.4	4167	57	4.4	99	0.333
04-	35.6731-	108.4817-	2-	15-	0-	N09333	6850	278	6644	74	-2	7.6	6.4	-154	-1	-1	16.6	4066	60	6.5	80	0.266
04-	35.6733-	108.4794-	2-	15-	0-	N09334	7125	235	5431	64	-2	7.5	9.5	-172	-1	-1	21.7	4957	54	6.9	65	0.237
04-	35.6708-	108.4744-	2-	15-	0-	N09335	9060	291	7736	68	-2	8.1	5.1	-166	-1	-1	10.9	4207	52	3.6	64	0.306
04-	35.7492-	108.4050-	2-	15-	0-	N09336	16030	219	4149	44	-2	4.3	4.5	-138	-1	-1	10.5	2880	43	3.1	-37	0.328
04-	35.7472-	108.4031-	2-	15-	0-	N09337	15500	251	5216	92	-2	7.3	6.1	-155	-1	-1	13.3	2662	47	4.5	71	0.196
04-	35.7489-	108.4014-	2-	15-	0-	N09338	16080	213	3414	52	-2	5.6	5.7	-153	-1	-1	11.1	2384	44	3.3	60	0.248
04-	35.7472-	108.3786-	2-	15-	0-	N09340	6955	244	4911	56	-1	4.5	4.3	-145	-1	-1	9.0	2747	38	3.2	-56	0.290
04-	35.7333-	108.3775-	2-	99-	0-	N09341	12240	209	4723	36	-2	4.5	4.5	-140	-1	-1	9.6	3104	49	4.5	-51	0.306
04-	35.7486-	108.4436-	2-	15-	0-	N09342	11260	207	4697	67	-2	6.1	5.3	-137	-1	-1	12.6	3162	43	4.8	66	0.220
04-	35.7836-	108.3744-	2-	15-	0-	N09343	12570	264	5274	72	-2	7.8	6.0	-172	-1	-1	13.8	2968	54	3.6	91	0.243
04-	35.7981-	108.6106-	2-	15-	0-	N09344	6842	224	7728	64	-1	4.7	4.1	-150	-1	-1	10.7	3111	42	3.9	67	0.282
04-	35.8272-	108.6069-	2-	15-	0-	N09345	14420	377	7947	60	-2	8.6	5.9	-190	-1	-1	12.4	4840	81	3.8	71	0.315
04-	35.8228-	108.5850-	2-	15-	0-	N09347	12470	345	7212	117	-3	13.8	7.9	-185	-1	-1	16.9	4255	84	4.7	133	0.237
04-	35.8214-	108.5631-	2-	99-	0-	N09348	15020	271	18300	71	-2	6.3	5.8	-212	-1	-1	14.4	3694	50	6.2	57	0.253
04-	35.8211-	108.5553-	2-	15-	0-	N09350	5836	222	7933	75	-1	4.4	4.7	-155	-1	-1	9.5	3159	37	4.5	63	0.289
04-	35.8197-	108.5497-	2-	15-	0-	N09351	9997	333	9645	112	-3	10.4	7.2	-199	-1	-1	15.5	3940	68	5.0	95	0.230
04-	35.8442-	108.5586-	2-	15-	0-	N09352	15930	380	6513	92	-3	13.4	5.9	-202	1	-1	14.2	4556	103	5.8	147	0.274
04-	35.8611-	108.5786-	2-	15-	0-	N09353	8864	282	6994	78	-2	7.3	6.8	-164	-1	-1	12.3	4491	66	3.3	115	0.311
04-	35.8583-	108.5550-	2-	15-	0-	N09354	11480	352	9193	51	-2	7.6	5.0	-181	-1	-1	11.7	3920	68	3.9	52	0.329
04-	35.8914-	108.5172-	2-	15-	0-	N09356	13970	345	7941	93	-3	12.1	7.8	290	-1	-1	16.8	3914	82	7.9	109	0.224
04-	35.9244-	108.5475-	2-	15-	0-	N09357	11220	380	9271	90	-2	9.2	6.6	-201	-1	-1	14.3	4144	70	4.3	100	0.259
04-	35.9256-	108.5611-	2-	15-	0-	N09358	10080	347	8161	83	-2	8.1	5.7	-178	-1	-1	11.5	3772	68	4.2	74	0.308
04-	35.9239-	108.5731-	2-	15-	0-	N09359	9588	321	10790	85	-2	5.7	3.8	-177		-1	9.2	3098	52	3.7	82	0.347
04-	35.9139-	108.6086-	2-	15-	0-	N09360	14330	393	10490	78	-3	10.2	6.7	-219	-1	-1	14.5	3100	60	4.2	83	0.258
04-	35.9000-	108.6042-	2-	15-	0-	N09362	12220	405	10540	62	-2	8.7	6.2	-218	-1	-1	12.5	4002	59	3.3	-85	0.302
04-	35.8914-	108.5769-	2-	15-	0-	N09363	10660	343	10940	79	-2	5.8	4.7	-181	-1	-1	10.5	3526	48	4.6	74	0.301
04-	35.8972-	108.5333-	2-	15-	0-	N09364	11600	367	9291	55	-2	7.9	5.2	-187	-1	-1	12.9	3556	67	4.1	93	0.284
04-	35.9322-	108.5117-	2-	15-	0-	N09365	5225	296	13640	86	-2	6.3	7.7	-189	-1	1	16.2	3617	36	7.1	65	0.267
04-	35.9569-	108.5261-	2-	15-	0-	N09367	12600	403	8961	92	-3	11.0	6.2	-209	-1	-1	13.5	4526	86	4.6	116	0.284
04-	35.9883-	108.5194-	2-	15-	0-	N09368	13670	348	7286	67	-2	9.6	6.6	-178	-1	-1	12.0	3979	81	3.6	101	0.299
04-	35.9633-	108.5522-	2-	15-	0-	N09369	11620	360	7949	65	-3	9.0	6.3	-184	-1	-1	11.9	3526	71	4.6	-26	0.296
04-	35.9850-	108.5539-	2-	15-	0-	N09371	6341	345	12300	81	-2	7.1	6.3	-200	-1	-1	12.9	3383	48	4.3	55	0.250
04-	35.9992-	108.5567-	2-	15-	0-	N09372	5371	312	13350	78	-2	5.5	5.6	-187	-1	-1	12.9	3665	42	5.5	-51	0.300
04-	35.9919-	108.5928-	2-	15-	0-	N09373	11220	336	8685	70	-2	8.1	5.8	-177	-1	-1	11.5	3768	69	3.8	61	0.303
04-	35.9464-	108.6014-	2-	15-	0-	N09374	9664	314	11560	47	-2	4.6	4.1	340		-1	8.0	2764	36	3.3	43	0.339
04-	35.8269-	108.4311-	2-	99-	0-	N09375	6620	287	10630	97	-2	9.0	6.3	-184	-1	-1	12.9	3123	50	5.0	100	0.250
04-	35.7889-	109.7319-	2-	15-	0-	N09376	19770	315	7135	60	-2	5.9	4.6	-178	-1	-1	7.0	2546	40	3.1	47	0.293
04-	35.8336-	109.7328-	2-	15-	0-	N09377	9720	252	6752	44	-1	3.3	2.4	-143			4.3	2355	29	2.1	-42	0.412
04-	35.8206-	109.6933-	2-	15-	0-	N09379	14480	272	6424	40	-2	4.0	3.1	-151	-1		4.8	2097	37	2.4	39	0.394

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-35.7244-109.7692-2-15-						0-N09381-09/19/78-13-			27-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.78
04-35.7039-109.7328-2-15-						0-N09382-09/19/78-13-			27-		-C-	-	-	-	-	15-1-6-4-6-	-1-	-1-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.94
04-35.7131-109.7194-2-15-						0-N09383-09/19/78-14-			27-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.56
04-35.7197-109.7072-2-15-						0-N09384-09/19/78-14-			27-		-C-	-	-	-	-	11-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.98
04-35.7289-109.6958-2-15-						0-N09385-09/19/78-14-			27-		-C-	-	-	-	-	4-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
04-35.6603-109.7731-2-15-						0-N09388-09/19/78-16-			26-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-3-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
04-35.6308-109.8742-2-15-						0-N09391-09/19/78-17-			26-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
04-35.6664-109.8467-2-15-						0-N09392-09/19/78-18-			25-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.99
04-35.6886-109.8369-2-15-						0-N09393-09/19/78-18-			25-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.13
04-35.7197-109.8594-2-15-						0-N09394-09/19/78-18-			25-		-C-	-	-	-	-	15-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.19
04-35.7331-109.8706-2-15-						0-N09395-09/19/78-19-			24-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.79
04-35.7722-109.6239-2-15-						0-N09398-09/20/78- 9-			20-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.95
04-35.7889-109.6092-2-15-						0-N09399-09/20/78- 9-			20-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.41
04-35.8153-109.6078-2-15-						0-N09400-09/20/78-10-			21-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.76
04-35.8331-109.6025-2-15-						0-N09402-09/20/78-10-			21-		-C-	-	-	-	-	15-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.77
04-35.8369-109.6206-2-15-						0-N09403-09/20/78-10-			21-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.15
04-35.9550-109.6244-2-15-						0-N09404-09/20/78-11-			22-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.72
04-35.9817-109.6242-2-15-						0-N09405-09/20/78-11-			21-		-C-	-	-	-	-	22-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.89
04-35.9250-109.5683-2-15-						0-N09406-09/20/78-11-			22-		-C-	-	-	-	-	4-1-6-4-6-	-1-	-2-3-2-1-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.75
04-35.9203-109.5622-2-15-						0-N09407-09/20/78-11-			22-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-1-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.01
04-35.9508-109.5636-2-15-						0-N09409-09/20/78-12-			23-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-1-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.77
04-35.9806-109.5506-2-15-						0-N09410-09/20/78-12-			23-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-1-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.87
04-35.9969-109.5678-2-15-						0-N09411-09/20/78-12-			23-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-1-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.56
04-35.9933-109.5353-2-15-						0-N09412-09/20/78-13-			23-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.37
04-35.9583-109.5028-2-15-						0-N09413-09/20/78-14-			24-		-	-	-	-	-	20-1-6-4-6-	-1-	-2-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.94
04-35.9711-109.5064-2-15-						0-N09414-09/20/78-14-			24-		-C-	-	-	-	-	19-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.73
04-35.8853-109.5242-2-15-						0-N09416-09/20/78-13-			24-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31
04-35.8711-109.5433-2-15-						0-N09417-09/20/78-15-			24-		-C-	-	-	-	-	15-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.23
04-35.8656-109.5189-2-15-						0-N09418-09/10/78-15-			24-		-C-	-	-	-	-	11-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.02
04-35.8517-109.5236-2-15-						0-N09420-09/20/78-16-			23-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.05
04-35.8361-109.5161-2-15-						0-N09421-09/20/78-16-			23-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.94
04-35.7536-109.5564-2-15-						0-N09422-09/20/78-17-			22-		-C-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.44
04-35.7808-109.5419-2-15-						0-N09423-09/20/78-18-			23-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.77
04-35.7764-109.5086-2-15-						0-N09424-09/20/78-18-			23-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.47
04-35.9236-109.6522-2-15-						0-N09425-09/21/78-10-			23-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.64
04-35.9225-109.6564-2-15-						0-N09426-09/21/78-10-			23-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.64
04-35.9475-109.6375-2-15-						0-N09427-09/21/78-10-			23-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.24
04-35.8981-109.6992-2-15-						0-N09430-09/21/78-12-			24-		-C-	-	-	-	-	15-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
04-35.9203-109.6956-2-15-						0-N09431-09/21/78-13-			24-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.69
04-35.9319-109.6961-2-15-						0-N09432-09/21/78-13-			24-		-C-	-	-	-	-	15-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.51
04-35.9542-109.7225-2-15-						0-N09434-09/21/78-14-			23-		-C-	-	-	-	-	14-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.32
04-35.9719-109.7133-2-15-						0-N09435-09/21/78-14-			23-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.76
04-35.9883-109.7000-2-15-						0-N09437-09/21/78-15-			23-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.57
04-35.9933-109.6575-2-15-						0-N09438-09/21/78-15-			23-		-C-	-	-	-	-	15-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.64
04-35.9947-109.6336-2-15-						0-N09439-09/21/78-16-			22-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.11
04-35.9656-109.6400-2-15-						0-N09440-09/21/78-16-			22-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.69
04-35.7867-109.7522-2-15-						0-N09441-09/22/78- 7-			19-		-C-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.01
04-35.7794-109.8361-2-15-						0-N09442-09/22/78- 7-			19-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.13
04-35.7761-109.8306-2-99-						0-N09444-09/22/78- 8-			20-		-C-	-	-	-	-	11-1-6-4-6-	-1-	- -3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
04-35.7636-109.8747-2-15-						0-N09446-09/22/78- 8-			19-		-C-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-3-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.07
04-35.7647-109.9000-2-15-						0-N09447-09/22/78- 9-			20-		-C-	-	-	-	-	19-1-6-4-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.55

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
04-	35.7244-	109.7692-	2-	15-	0-	N09381	-5	-5	-5	15	-20	-15	5	-10	-15	1	24
04-	35.7039-	109.7328-	2-	15-	0-	N09382	-5	-5	-5	25	-20	-15	5	-10	-15	1	25
04-	35.7131-	109.7194-	2-	15-	0-	N09383	-5	7	-5	14	-20	-15	7	-10	-15	1	19
04-	35.7197-	109.7072-	2-	15-	0-	N09384	-5	5	-5	11	-20	-15	7	-10	-15	-1	13
04-	35.7289-	109.6958-	2-	15-	0-	N09385	-5	5	-5	18	-20	-15	-5	-10	-15	1	15
04-	35.6603-	109.7731-	2-	15-	0-	N09388	-5	-5	-5	18	-20	-15	5	-10	-15	1	23
04-	35.6308-	109.8742-	2-	15-	0-	N09391	-5	-5	-5	13	-20	-15	5	-10	-15	2	20
04-	35.6664-	109.8467-	2-	15-	0-	N09392	-5	-5	-5	19	-20	-15	-5	-10	-15	1	22
04-	35.6886-	109.8369-	2-	15-	0-	N09393	-5	8	-5	25	-20	-15	5	-10	-15	1	22
04-	35.7197-	109.8594-	2-	15-	0-	N09394	-5	6	-5	15	-20	29	-5	-10	-15	1	20
04-	35.7331-	109.8706-	2-	15-	0-	N09395	-5	6	-5	21	-20	-15	10	-10	-15	2	25
04-	35.7722-	109.6239-	2-	15-	0-	N09398	-5	-5	-5	17	-20	-15	-5	-10	-15	1	41
04-	35.7889-	109.6092-	2-	15-	0-	N09399	-5	-5	-5	30	-20	-15	5	-10	-15	1	29
04-	35.8153-	109.6078-	2-	15-	0-	N09400	-5	-5	-5	13	-20	-15	-5	-10	-15	1	28
04-	35.8331-	109.6025-	2-	15-	0-	N09402	-5	5	-5	21	-20	-15	8	-10	-15	1	34
04-	35.8369-	109.6206-	2-	15-	0-	N09403	-5	-5	-5	27	-20	-15	17	-10	-15	-1	18
04-	35.9550-	109.6244-	2-	15-	0-	N09404	-5	5	-5	22	-20	-15	-5	-10	-15	1	22
04-	35.9817-	109.6242-	2-	15-	0-	N09405	-5	5	-5	21	-20	-15	-5	-10	-15	1	26
04-	35.9250-	109.5683-	2-	15-	0-	N09406	-5	-5	-5	34	-20	16	-5	-10	-15	-1	33
04-	35.9203-	109.5622-	2-	15-	0-	N09407	-5	-5	-5	24	-20	-15	8	-10	-15	1	31
04-	35.9508-	109.5636-	2-	15-	0-	N09409	-5	6	-5	17	-20	-15	12	-10	-15	1	33
04-	35.9806-	109.5506-	2-	15-	0-	N09410	-5	-5	-5	-10	-20	17	10	-10	-15	1	22
04-	35.9969-	109.5678-	2-	15-	0-	N09411	-5	6	-5	24	-20	-15	13	-10	-15	2	25
04-	35.9933-	109.5353-	2-	15-	0-	N09412	-5	-5	-5	20	-20	-15	-5	-10	15	1	20
04-	35.9583-	109.5028-	2-	15-	0-	N09413	-5	-5	-5	26	-20	-15	-5	-10	-15	1	25
04-	35.9711-	109.5064-	2-	15-	0-	N09414	-5	-5	-5	17	-20	-15	-5	-10	-15	1	24
04-	35.8853-	109.5242-	2-	15-	0-	N09416	-5	7	-5	24	-20	-15	9	-10	-15	1	32
04-	35.8711-	109.5433-	2-	15-	0-	N09417	-5	5	-5	31	-20	-15	6	-10	-15	1	31
04-	35.8656-	109.5189-	2-	15-	0-	N09419	-5	5	-5	23	-20	-15	13	-10	-15	1	21
04-	35.8517-	109.5236-	2-	15-	0-	N09420	-5	6	-5	34	-20	-15	12	-10	-15	2	36
04-	35.8361-	109.5161-	2-	15-	0-	N09421	-5	-5	-5	30	-20	-15	7	-10	-15	1	36
04-	35.7536-	109.5564-	2-	15-	0-	N09422	-5	6	-5	27	-20	16	9	-10	-15	1	34
04-	35.7808-	109.5419-	2-	15-	0-	N09423	-5	-5	-5	25	-20	-15	-5	-10	-15	1	28
04-	35.7764-	109.5086-	2-	15-	0-	N09424	-5	5	-5	26	-20	-15	25	-10	-15	2	47
04-	35.9236-	109.6522-	2-	15-	0-	N09425	-5	6	-5	14	-20	-15	5	-10	-15	-1	16
04-	35.9225-	109.6564-	2-	15-	0-	N09426	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	17
04-	35.9475-	109.6375-	2-	15-	0-	N09427	-5	8	-5	14	-20	-15	7	-10	-15	-1	14
04-	35.8981-	109.6992-	2-	15-	0-	N09430	-5	-5	5	37	-20	-15	12	-10	16	2	33
04-	35.9203-	109.6956-	2-	15-	0-	N09431	-5	-5	-5	23	-20	-15	11	-10	-15	1	15
04-	35.9319-	109.6961-	2-	15-	0-	N09432	-5	6	-5	28	-20	17	7	-10	-15	1	31
04-	35.9542-	109.7225-	2-	15-	0-	N09434	-5	-5	-5	26	-20	17	6	-10	-15	1	25
04-	35.9719-	109.7133-	2-	15-	0-	N09435	-5	-5	-5	24	-20	-15	6	-10	-15	2	36
04-	35.9883-	109.7000-	2-	15-	0-	N09437	-5	-5	-5	25	-20	16	10	-10	-15	1	30
04-	35.9933-	109.6575-	2-	15-	0-	N09438	-5	-5	-5	19	-20	-15	-5	-10	-15	1	21
04-	35.9947-	109.6336-	2-	15-	0-	N09439	-5	-5	-5	29	-20	-15	9	-10	-15	2	37
04-	35.9656-	109.6400-	2-	15-	0-	N09440	-5	6	-5	24	-20	-15	9	-10	-15	1	28
04-	35.7867-	109.7522-	2-	15-	0-	N09441	-5	-5	-5	19	-20	-15	-5	-10	-15	1	15
04-	35.7794-	109.8361-	2-	15-	0-	N09442	-5	5	-5	18	-20	-15	6	-10	-15	1	21
04-	35.7761-	109.8306-	2-	99-	0-	N09444	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	11
04-	35.7636-	109.8747-	2-	15-	0-	N09446	-5	7	-5	20	-20	-15	-5	-10	-15	1	14
04-	35.7647-	109.9000-	2-	15-	0-	N09447	-5	5	-5	24	-20	-15	8	-10	-15	1	31

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
04-	35.7244-	109.7692-	2-	15-	0-	N09381	37250	-0.09	526	7958	60	-47	4.6	41	2.9	4	1.3	18110	26.6	15750	40	0.5
04-	35.7039-	109.7328-	2-	15-	0-	N09382	48740	-0.08	550	38900	54	-58	5.5	31	-1.0	4	1.1	15320	6.5	18710	27	0.3
04-	35.7131-	109.7194-	2-	15-	0-	N09383	36820	-0.06	502	20260	29	-49	3.0	17	1.7	3	0.8	9326	9.2	18720	-6	0.2
04-	35.7197-	109.7072-	2-	15-	0-	N09384	30970	-0.07	394	15380	36	-49	2.6	27	1.4	3	0.7	9784	19.0	15140	-6	0.3
04-	35.7289-	109.6958-	2-	15-	0-	N09385	37610	-0.08	525	9624	48	-50	4.2	39	2.6	3	1.1	14400	16.9	18940	32	0.4
04-	35.6603-	109.7731-	2-	15-	0-	N09388	43400	-0.07	653	16480	64	-57	4.8	39	1.9	3	1.2	18180	16.1	18880	30	0.4
04-	35.6308-	109.8742-	2-	15-	0-	N09391	46360	-0.07	603	13790	54	-64	4.2	28	2.7	4	1.1	15180	12.8	19470	28	0.4
04-	35.6664-	109.8467-	2-	15-	0-	N09392	37830	-0.07	558	11350	46	-60	3.3	25	1.3	3	0.9	13670	12.8	19170	24	0.3
04-	35.6886-	109.8369-	2-	15-	0-	N09393	49350	-0.10	750	26930	76	-64	10.7	52	3.7	3	1.8	26110	14.8	17640	46	0.4
04-	35.7197-	109.8594-	2-	15-	0-	N09394	34530	-0.09	440	19360	113	-58	12.1	86	2.0	5	1.7	55640	45.4	13750	58	0.7
04-	35.7331-	109.8706-	2-	15-	0-	N09395	49410	-0.08	444	21430	59	-58	5.9	40	3.0	5	1.1	16970	12.4	16350	14	0.4
04-	35.7722-	109.6239-	2-	15-	0-	N09398	46520	-0.09	422	62860	47	-66	5.5	30	2.4	4	0.9	15470	5.9	13850	20	0.3
04-	35.7889-	109.6092-	2-	15-	0-	N09399	51120	-0.11	546	50190	62	-59	8.1	49	3.8	4	1.4	24590	11.7	17450	-10	0.4
04-	35.8153-	109.6078-	2-	15-	0-	N09400	37400	-0.07	495	38210	47	-57	3.6	29	2.4	3	0.9	11300	11.0	16860	13	0.3
04-	35.8331-	109.6025-	2-	15-	0-	N09402	41130	-0.07	450	23850	41	-61	4.6	29	2.6	3	0.9	13680	9.1	19140	23	0.2
04-	35.8369-	109.6206-	2-	15-	0-	N09403	33820	-0.08	491	30300	59	-62	4.6	42	1.7	4	1.1	17620	33.1	15030	30	0.5
04-	35.9550-	109.6244-	2-	15-	0-	N09404	33160	-0.08	514	21130	31	-52	3.3	28	1.8	3	0.9	11570	15.4	15430	-7	0.4
04-	35.9817-	109.6242-	2-	15-	0-	N09405	39170	-0.07	462	15260	43	-51	4.0	39	2.3	3	1.0	14420	16.1	17440	23	0.4
04-	35.9250-	109.5683-	2-	15-	0-	N09406	43140	-0.10	806	82570	53	-78	7.5	30	3.3	5	1.2	17510	7.0	16310	29	0.4
04-	35.9203-	109.5622-	2-	15-	0-	N09407	44170	-0.10	588	80930	56	-80	6.9	42	2.2	4	1.2	16720	5.0	13330	28	0.3
04-	35.9508-	109.5636-	2-	15-	0-	N09409	37510	-0.10	1435	50030	89	-65	7.3	50	3.4	6	1.4	27650	34.4	10280	53	0.7
04-	35.9806-	109.5506-	2-	15-	0-	N09410	39580	-0.09	2596	42260	86	-63	8.5	52	2.6	5	2.3	33570	38.7	11390	43	0.7
04-	35.9969-	109.5678-	2-	15-	0-	N09411	55700	-0.10	1100	17470	81	-57	8.2	34	5.9	6	1.6	27220	17.7	16060	36	0.6
04-	35.9933-	109.5353-	2-	15-	0-	N09412	38240	-0.09	1450	23610	69	-59	5.2	38	2.3	5	1.3	18890	25.0	12440	29	0.5
04-	35.9583-	109.5028-	2-	15-	0-	N09413	40720	-0.12	2039	19730	108	-53	9.8	82	3.8	6	1.7	40720	66.5	12550	63	1.0
04-	35.9711-	109.5064-	2-	15-	0-	N09414	47720	-0.09	736	23030	80	-50	7.6	45	3.9	5	1.5	23540	17.1	12770	38	0.5
04-	35.8853-	109.5242-	2-	15-	0-	N09416	57990	-0.06	703	46200	63	-62	7.4	38	3.6	5	1.2	19800	7.9	17410	26	0.3
04-	35.8711-	109.5433-	2-	15-	0-	N09417	39390	-0.06	665	72960	65	-63	7.5	38	3.1	5	1.4	19150	10.1	10630	26	0.4
04-	35.8656-	109.5189-	2-	15-	0-	N09418	33170	-0.05	767	77030	66	-71	4.8	26	2.6	4	1.4	13820	10.9	11020	26	0.3
04-	35.8517-	109.5236-	2-	15-	0-	N09420	59630	-0.06	866	32510	69	-68	6.5	27	5.2	5	1.4	21290	12.9	11780	36	0.4
04-	35.8361-	109.5161-	2-	15-	0-	N09421	48370	-0.06	743	43550	69	-64	5.9	31	3.6	5	1.3	17700	12.0	13850	32	0.4
04-	35.7536-	109.5564-	2-	15-	0-	N09422	56820	-0.07	652	29460	47	-58	8.5	44	3.2	4	1.1	22400	7.7	14540	28	0.3
04-	35.7808-	109.5419-	2-	15-	0-	N09423	49340	-0.05	872	35000	57	-63	6.3	55	2.7	4	1.3	19800	16.9	14950	33	0.4
04-	35.7764-	109.5086-	2-	15-	0-	N09424	86660	-0.06	482	12420	87	-47	10.1	16	8.1	5	1.3	29830	13.1	12330	42	0.4
04-	35.9236-	109.6522-	2-	15-	0-	N09425	27290	-0.05	660	21680	35	-49	3.0	51	1.0	3	1.1	13260	24.3	13700	15	0.4
04-	35.9225-	109.6564-	2-	15-	0-	N09426	30420	-0.05	584	25370	29	-48	3.0	35	1.5	2	0.5	10750	13.5	18220	6	0.2
04-	35.9475-	109.6375-	2-	15-	0-	N09427	31360	-0.04	400	14010	30	-48	2.7	30	1.5	3	0.7	10230	17.3	13050	15	0.3
04-	35.8981-	109.6992-	2-	15-	0-	N09430	54150	-0.05	396	31550	46	-56	5.5	33	4.0	4	0.9	17330	5.7	19420	23	0.3
04-	35.9203-	109.6956-	2-	15-	0-	N09431	39810	-0.05	490	9396	34	-49	3.4	21	1.9	3	0.8	10210	8.5	19120	15	0.2
04-	35.9319-	109.6961-	2-	15-	0-	N09432	46370	-0.06	484	5925	51	-52	6.7	48	3.6	4	1.1	19120	15.4	19860	28	0.4
04-	35.9542-	109.7225-	2-	15-	0-	N09434	46600	-0.05	469	18720	52	-55	5.1	35	2.8	5	0.9	16540	19.3	16200	27	0.4
04-	35.9719-	109.7133-	2-	15-	0-	N09435	59640	-0.06	389	37280	52	-60	7.0	39	4.6	4	0.9	21230	4.5	22340	27	0.2
04-	35.9883-	109.7000-	2-	15-	0-	N09437	52200	-0.06	393	24350	41	-49	4.6	29	3.9	4	0.9	14840	7.3	19740	22	0.3
04-	35.9933-	109.6575-	2-	15-	0-	N09438	37510	-0.05	477	16340	31	-45	3.4	24	2.5	3	0.8	11220	10.1	16520	11	0.2
04-	35.9947-	109.6336-	2-	15-	0-	N09439	58150	-0.06	424	24720	57	-59	5.8	34	4.4	5	0.9	18410	9.8	21470	28	0.4
04-	35.9656-	109.6400-	2-	15-	0-	N09440	51280	-0.05	408	23000	47	-57	5.4	36	3.4	4	1.0	15710	7.1	18170	28	0.3
04-	35.7867-	109.7522-	2-	15-	0-	N09441	38390	-0.04	507	5571	29	-35	2.8	27	1.4	3	0.8	9211	15.2	18790	5	0.3
04-	35.7794-	109.8361-	2-	15-	0-	N09442	49440	-0.06	411	21280	51	-42	4.8	27	3.6	4	1.1	14340	10.0	13290	25	0.3
04-	35.7761-	109.8306-	2-	99-	0-	N09444	23540	-0.04	213	4877	25	-28	2.4	26	1.4	2	0.6	5316	24.0	8278	7	0.3
04-	35.7636-	109.8747-	2-	15-	0-	N09446	37170	-0.04	427	3809	37	-40	3.6	25	1.7	4	0.8	10070	16.9	16250	19	0.4
04-	35.7647-	109.9000-	2-	15-	0-	N09447	52280	-0.06	497	59780	47	-57	5.3	33	2.8	4	1.1	17150	7.8	16520	26	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
04-	35.7244-	109.7692-	2-	15-	0-	N09381	5925	237	5932	59	-2	5.0	5.0	-150	2	-1	10.4	3148	47	4.5	57	0.267
04-	35.7039-	109.7328-	2-	15-	0-	N09382	14460	325	7125	-18	-2	5.4	3.3	-184	-1	-1	6.9	3000	43	2.8	50	0.281
04-	35.7131-	109.7194-	2-	15-	0-	N09383	7186	221	5607	43	-1	3.4	1.9	-138			4.3	2007	30	-1.0	25	0.363
04-	35.7197-	109.7072-	2-	15-	0-	N09384	6725	222	5320	40	-1	2.9	2.5	-130			5.5	2057	30	3.0	-25	0.360
04-	35.7289-	109.6958-	2-	15-	0-	N09385	7645	222	6989	76	-2	4.6	4.6	-153	-1	-1	9.1	2245	37	3.5	-48	0.220
04-	35.6603-	109.7731-	2-	15-	0-	N09388	7458	263	10270	54	-2	4.5	4.7	387	1	-1	7.4	2956	43	3.9	-39	0.297
04-	35.6308-	109.8742-	2-	15-	0-	N09391	12740	338	9815	68	-2	4.7	4.0	-171	-1	-1	7.6	3040	44	2.5	66	0.289
04-	35.6664-	109.8467-	2-	15-	0-	N09392	7460	232	9155	44	-2	3.0	3.3	-142			6.7	2895	42	2.4	-17	0.297
04-	35.6886-	109.8369-	2-	15-	0-	N09393	14100	393	9647	73	-2	7.8	5.2	-203	-1	-1	9.7	4127	46	3.8	60	0.220
04-	35.7197-	109.8594-	2-	15-	0-	N09394	6817	490	7936	62	-2	6.0	8.5	-208	2	-1	19.0	7367	129	7.1	101	0.221
04-	35.7331-	109.8706-	2-	15-	0-	N09395	10850	295	5899	52	-2	5.9	4.6	-161	-1	-1	9.5	3144	51	4.1	82	0.294
04-	35.7722-	109.6239-	2-	15-	0-	N09398	31740	435	6234	51	-2	5.9	3.4	559	-1	-1	6.4	2535	50	-1.7	-65	0.305
04-	35.7889-	109.6092-	2-	15-	0-	N09399	21970	518	5525	73	-3	8.8	4.8	469	-1	-1	10.7	2402	57	4.6	57	0.225
04-	35.8153-	109.6078-	2-	15-	0-	N09400	13930	272	8636	51	-2	4.4	3.8	-171	-1	-1	6.4	2573	29	3.1	20	0.275
04-	35.8331-	109.6025-	2-	15-	0-	N09402	15560	294	7032	59	-2	5.0	2.4	-163	-1	-1	6.5	2498	38	2.4	87	0.272
04-	35.8369-	109.6206-	2-	15-	0-	N09403	13960	421	6680	39	-2	4.1	5.1	191	1	-1	9.9	3894	45	5.2		0.318
04-	35.9550-	109.6244-	2-	15-	0-	N09404	11500	211	7295	54	-2	3.9	3.3	-154	-1		5.1	1831	23	2.5	44	0.337
04-	35.9817-	109.6242-	2-	15-	0-	N09405	10720	293	6981	61	-2	4.7	3.5	-164	-1	-1	6.7	2754	32	3.3	48	0.282
04-	35.9250-	109.5683-	2-	15-	0-	N09406	40590	637	7444	47	-2	7.7	4.4	414	-1	1	6.3	2926	56	3.2	29	0.278
04-	35.9203-	109.5622-	2-	15-	0-	N09407	36510	700	7279	42	-2	6.8	4.8	499	-1	-1	7.4	2517	52	2.5	-50	0.272
04-	35.9508-	109.5636-	2-	15-	0-	N09409	14320	762	6276	65	-2	6.6	7.8	-252	-1	-1	15.3	3880	51	6.4	78	0.246
04-	35.9806-	109.5506-	2-	15-	0-	N09410	19410	746	6192	57	-2	6.4	7.0	-238	-1	-1	14.5	4487	82	5.9	38	0.267
04-	35.9969-	109.5678-	2-	15-	0-	N09411	11810	491	4961	64	-2	7.4	6.8	-195	-1	-1	13.0	4211	58	4.4	-24	0.274
04-	35.9933-	109.5353-	2-	15-	0-	N09412	12250	523	5176	40	-2	4.9	5.1	-187	-1	1	10.0	3679	49	3.9	58	0.337
04-	35.9583-	109.5028-	2-	15-	0-	N09413	11560	620	4339	63	-3	8.6	9.9	-225	-1	-1	19.9	5639	82	7.9	66	0.248
04-	35.9711-	109.5064-	2-	15-	0-	N09414	14420	506	4536	44	-2	7.1	5.3	-201	-1	-1	9.7	3938	42	4.0	48	0.281
04-	35.8853-	109.5242-	2-	15-	0-	N09416	27600	603	5799	39	-1	6.6	4.3	438	-1	-1	7.5	3439	58	2.7	-28	0.308
04-	35.8711-	109.5433-	2-	15-	0-	N09417	33930	531	6890	55	-1	7.8	5.1	-225	-1	-1	8.3	2682	49	3.3	109	0.269
04-	35.8656-	109.5189-	2-	15-	0-	N09418	32550	710	6248	37	-1	5.8	4.8	453	-1	-1	6.3	2799	49	3.2	24	0.321
04-	35.8517-	109.5236-	2-	15-	0-	N09420	21380	547	6325	55	-1	6.5	6.7	-199	-1	-1	12.4	3410	52	4.3	-21	0.246
04-	35.8361-	109.5161-	2-	15-	0-	N09421	22390	628	6869	42	-1	5.2	5.5	-235	-1	-1	10.5	3190	42	3.4	40	0.280
04-	35.7536-	109.5564-	2-	15-	0-	N09422	21570	473	5955	63	-2	7.6	4.2	379	-1	-1	8.4	3523	62	2.8	70	0.290
04-	35.7808-	109.5419-	2-	15-	0-	N09423	17620	554	5819	-16	-1	5.7	4.0	352	-1	-1	7.9	3585	62	3.3	-17	0.351
04-	35.7764-	109.5086-	2-	15-	0-	N09424	22880	334	2913	72	-2	9.7	5.6	251	-1	-1	14.5	4383	71	4.3	94	0.239
04-	35.9236-	109.6522-	2-	15-	0-	N09425	9333	328	5918	37	-1	2.9	2.3	-166			5.4	3091	38	2.9	-31	0.489
04-	35.9225-	109.6564-	2-	15-	0-	N09426	9850	242	6608	49	-1	3.1	2.1	-147	-1		4.2	2529	30	1.9	40	0.390
04-	35.9475-	109.6375-	2-	15-	0-	N09427	7654	224	4931	43	-1	3.1	2.5	-133	-1		5.6	2494	34	3.0	32	0.400
04-	35.8981-	109.6992-	2-	15-	0-	N09430	15530	233	5801	58	-1	6.4	4.6	-146	-1	-1	8.9	2547	51	2.2	110	0.292
04-	35.9203-	109.6956-	2-	15-	0-	N09431	9227	258	5998	48	-1	3.6	2.7	-158			5.3	2368	31	2.4		0.319
04-	35.9319-	109.6961-	2-	15-	0-	N09432	13310	380	7508	58	-1	6.4	5.1	-176	-1	-1	9.1	3594	42	4.0	81	0.276
04-	35.9542-	109.7225-	2-	15-	0-	N09434	11180	290	5711	49	-1	5.3	4.1	-159	-1	-1	10.3	3580	54	3.6	46	0.322
04-	35.9719-	109.7133-	2-	15-	0-	N09435	16260	281	4969	67	-1	7.8	4.6	-164	-1	-1	9.8	2863	69	2.1	90	0.282
04-	35.9883-	109.7000-	2-	15-	0-	N09437	14040	238	5191	54	-1	5.5	3.5	229	-1	-1	7.7	2721	50	1.5	79	0.334
04-	35.9933-	109.6575-	2-	15-	0-	N09438	7911	201	6484	59	-1	4.0	2.8	-141	-1	-1	5.5	2223	29	1.7	61	0.298
04-	35.9947-	109.6336-	2-	15-	0-	N09439	14320	266	5423	68	-1	6.8	3.5	-158	-1	-1	8.2	3586	63	3.9	112	0.379
04-	35.9656-	109.6400-	2-	15-	0-	N09440	12840	241	5960	50	-1	6.2	4.6	-150	-1	-1	9.5	2557	55	3.1	-61	0.283
04-	35.7867-	109.7522-	2-	15-	0-	N09441	7656	247	2620	36	-1	3.0	2.0	-140			4.6	2025	32	2.4	-14	0.437
04-	35.7794-	109.8361-	2-	15-	0-	N09442	10580	179	4205	56	-1	5.6	4.2	-136	-1	-1	9.7	2606	42	3.2	87	0.323
04-	35.7761-	109.8306-	2-	99-	0-	N09444	5855	92	1786	-10	-1	2.4	1.7	-88	-1		4.7	2295	25	2.3	22	0.574
04-	35.7636-	109.8747-	2-	15-	0-	N09446	6658	161	3645	46	-1	3.8	2.9	-111	-1		6.1	2134	31	3.0	81	0.339
04-	35.7647-	109.9000-	2-	15-	0-	N09447	13730	280	6885	49	-1	5.7	4.0	315	-1	-1	9.1	2940	49	2.9	-43	0.280

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-	35.7794-	109.8861-	2-	15-	0-	N09448-	09/22/78-	9-	20-		-C-	-		-	-	15-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.08
04-	35.7903-	109.8906-	2-	15-	0-	N09449-	09/22/78-	10-	21-		-C-	-		-	-	20-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.60
04-	35.7903-	109.8736-	2-	15-	0-	N09450-	09/22/78-	10-	20-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	3.51
04-	35.8167-	109.8953-	2-	15-	0-	N09452-	09/22/78-	10-	21-		-C-	-		-	-	15-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.98
04-	35.8419-	109.8828-	2-	15-	0-	N09453-	09/22/78-	10-	21-		-C-	-		-	-	22-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	3.48
04-	35.8700-	109.8953-	2-	15-	0-	N09454-	09/22/78-	10-	21-		-C-	-		-	-	19-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	4.11
04-	35.8278-	109.8119-	2-	15-	0-	N09456-	09/22/78-	11-	22-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.53
04-	35.8328-	109.7886-	2-	15-	0-	N09457-	09/22/78-	11-	22-		-C-	-		-	-	7-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.25
04-	35.8311-	109.7519-	2-	15-	0-	N09458-	09/22/78-	11-	22-		-C-	-		-	-	6-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-9-	-	-	-	-	2.91
04-	35.8567-	109.7592-	2-	15-	0-	N09460-	09/22/78-	12-	23-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.91
04-	35.8697-	109.7525-	2-	15-	0-	N09461-	09/22/78-	12-	23-		-C-	-		-	-	15-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	1.69
04-	35.8747-	109.7806-	2-	15-	0-	N09462-	09/22/78-	13-	24-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.69
04-	35.8886-	109.7575-	2-	15-	0-	N09463-	09/22/78-	13-	24-		-C-	-		-	-	23-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.38
04-	35.9072-	109.7825-	2-	15-	0-	N09464-	09/22/78-	13-	24-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.87
04-	35.9181-	109.7992-	2-	15-	0-	N09465-	09/22/78-	13-	24-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.50
04-	35.9244-	109.8011-	2-	15-	0-	N09466-	09/22/78-	13-	24-		-C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.83
04-	35.9219-	109.7794-	2-	15-	0-	N09468-	09/22/78-	14-	24-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.38
04-	35.9342-	109.7522-	2-	15-	0-	N09469-	09/22/78-	15-	23-		-C-	-		-	-	7-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.10
04-	35.9408-	109.8011-	2-	15-	0-	N09470-	09/22/78-	15-	23-		-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	2-	1-	4-	-	-	-	-	-	2.89
04-	35.9533-	109.7967-	2-	15-	0-	N09471-	09/22/78-	15-	23-		-C-	-		-	-	28-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.52
04-	35.9664-	109.7539-	2-	15-	0-	N09472-	09/22/78-	16-	22-		-C-	-		-	-	15-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.41
04-	35.9844-	109.7503-	2-	15-	0-	N09473-	09/22/78-	16-	22-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.27
04-	35.9797-	109.7942-	2-	15-	0-	N09474-	09/22/78-	17-	22-		-C-	-		-	-	15-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	3.36
04-	35.9736-	109.8131-	2-	15-	0-	N09475-	09/22/78-	17-	22-		-C-	-		-	-	15-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.77
04-	35.9914-	109.8325-	2-	15-	0-	N09476-	09/22/78-	18-	22-		-C-	-		-	-	12-	1-	6-	4-	6-	-1-	-2-	3-	2-	2-	1-	-9-	-	-	-	-	2.84
04-	35.5867-	109.9328-	2-	15-	0-	N09478-	09/26/78-	16-	31-		-C-	-		-	-	19-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-9-	-	-	-	-	2.62
04-	35.5936-	109.9589-	2-	99-	0-	N09479-	09/26/78-	16-	31-		-C-	-		-	-	12-	1-	6-	5-	6-	-	-	-	-3-	3-	2-	1-	-9-	-	-	-	-	2.94
04-	35.6003-	109.9897-	2-	15-	0-	N09480-	09/26/78-	17-	30-		-C-	-		-	-	16-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-9-	-	-	-	-	2.86
04-	35.5333-	109.8978-	2-	15-	0-	N09483-	09/26/78-	17-	30-		-C-	-		-	-	15-	1-	6-	5-	6-	-1-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	4.52
04-	35.5356-	109.8961-	2-	15-	0-	N09484-	09/26/78-	17-	30-		-C-	-		-	-	17-	1-	6-	5-	6-	-1-	-2-	3-	3-	1-	1-	-9-	-	-	-	-	3.31
04-	35.5022-	109.9147-	2-	15-	0-	N09485-	09/26/78-	18-	30-		-C-	-		-	-	12-	1-	6-	5-	6-	-1-	-2-	3-	3-	2-	1-	-9-	-	-	-	-	2.96
04-	35.5022-	109.9406-	2-	15-	0-	N09486-	09/26/78-	18-	29-		-C-	-		-	-	14-	1-	6-	5-	6-	-1-	-2-	3-	3-	1-	1-	-9-	-	-	-	-	3.29
04-	35.5186-	109.9647-	2-	15-	0-	N09487-	09/26/78-	18-	29-		-C-	-		-	-	20-	1-	6-	5-	6-	-1-	-2-	3-	3-	1-	1-	-9-	-	-	-	-	2.70
04-	35.5269-	109.9769-	2-	15-	0-	N09489-	09/26/78-	18-	29-		-C-	-		-	-	20-	1-	6-	5-	6-	-1-	-1-	4-	3-	1-	1-	-9-	-	-	-	-	2.12
04-	35.6558-	109.9956-	2-	15-	0-	N09490-	09/26/78-	19-	27-		-C-	-		-	-	10-	1-	6-	5-	6-	-1-	-1-	3-	3-	3-	1-	-9-	-	-	-	-	1.96
04-	35.6333-	109.9683-	2-	15-	0-	N09491-	09/26/78-	19-	28-		-C-	-		-	-	8-	1-	6-	5-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	2.31
04-	35.1736-	109.3292-	2-	15-	0-	N09494-	10/13/78-	15-	27-		-C-	-		-	-	11-	1-	6-	1-	4-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	3.18
04-	35.1800-	109.3233-	2-	11-	0-	N09495-	10/13/78-	15-	27-	16.0-	-C-	-	8.8-		420-	6-	1-	6-	7-	4-	2-	2-	1-	-3-	3-	2-	1-	-3-	-	-	-	-	4.41
04-	35.1689-	109.3178-	2-	15-	0-	N09496-	10/13/78-	15-	27-		-C-	-		-	-	3-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-3-	-	-	-	-	2.54
04-	35.1714-	109.3158-	2-	15-	0-	N09497-	10/13/78-	16-	27-		-C-	-		-	-	14-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-3-	-	-	-	-	1.62
04-	35.8917-	109.4669-	2-	15-	0-	N09498-	09/26/78-	11-	22-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	2-	4-	2-	-9-	-	-	-	-	3.15
04-	35.8781-	109.4747-	2-	15-	0-	N09499-	09/26/78-	11-	22-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	2-	-9-	-	-	-	-	2.35
04-	35.8608-	109.4939-	2-	15-	0-	N09500-	09/26/78-	12-	22-		-C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	2.63
04-	35.8575-	109.4967-	2-	15-	0-	N09501-	09/26/78-	12-	22-		-C-	-		-	-	6-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	3.54
04-	35.9108-	109.4906-	2-	15-	0-	N09503-	09/26/78-	13-	22-		-C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	2-	-9-	-	-	-	-	2.26
04-	35.9356-	109.4672-	2-	15-	0-	N09506-	09/26/78-	14-	22-		-C-	-		-	-	10-	1-	6-	5-	6-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	2.60
04-	35.9331-	109.4403-	2-	15-	0-	N09507-	09/26/78-	15-	22-		-C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	2-	-9-	-	-	-	-	5.29
04-	35.9358-	109.4403-	2-	15-	0-	N09508-	09/26/78-	15-	22-		-C-	-		-	-	7-	1-	6-	5-	6-	-1-	-2-	1-	3-	4-	2-	-9-	-	-	-	-	3.24
04-	35.9525-	109.4508-	2-	15-	0-	N09509-	09/26/78-	16-	22-		-C-	-		-	-	5-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	2-	-9-	-	-	-	-	3.00
04-	35.9700-	109.4658-	2-	15-	0-	N09510-	09/26/78-	16-	22-		-C-	-		-	-	7-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	2-	-9-	-	-	-	-	3.19
04-	35.9775-	109.4606-	2-	15-	0-	N09511-	09/26/78-	17-	22-		-C-	-		-	-	8-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	2-	-9-	-	-	-	-	2.82

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
04-35.7794-109.8861-2-15-						0-N09449	-5	5	-5	34	-20	-15	11	-10	-15	2	29
04-35.7903-109.8906-2-15-						0-N09449	-5	7	-5	13	-20	-15	-5	-10	-15	1	19
04-35.7903-109.8736-2-15-						0-N09450	-5	5	-5	22	-20	-15	7	-10	-15	2	44
04-35.8167-109.8953-2-15-						0-N09452	-5	-5	-5	25	-20	21	-5	-10	-15	2	29
04-35.8419-109.8828-2-15-						0-N09453	-5	9	-5	25	-20	-15	14	-10	-15	2	30
04-35.8700-109.8953-2-15-						0-N09454	-5	-5	-5	22	-20	-15	8	-10	-15	1	20
04-35.8278-109.8119-2-15-						0-N09456	-5	5	-5	17	-20	-15	5	-10	-15	2	26
04-35.8328-109.7886-2-15-						0-N09457	-5	6	-5	24	-20	-15	-5	-10	-15	1	17
04-35.8311-109.7519-2-15-						0-N09458	-5	5	-5	19	-20	18	5	-10	-15	1	17
04-35.8567-109.7592-2-15-						0-N09460	-5	-5	-5	15	-20	-15	13	-10	-15	2	26
04-35.8697-109.7525-2-15-						0-N09461	-5	6	-5	17	-20	-15	5	-10	-15	1	14
04-35.8747-109.7806-2-15-						0-N09462	-5	-5	-5	24	-20	17	5	-10	-15	2	30
04-35.8886-109.7575-2-15-						0-N09463	-5	-5	-5	27	-20	-15	9	-10	-15	2	35
04-35.9072-109.7825-2-15-						0-N09464	-5	-5	-5	22	-20	-15	7	-10	-15	2	34
04-35.9181-109.7992-2-15-						0-N09465	-5	-5	-5	39	-20	19	5	-10	-15	2	45
04-35.9244-109.8011-2-15-						0-N09466	-5	-5	-5	20	-20	-15	5	-10	-15	2	26
04-35.9219-109.7794-2-15-						0-N09468	-5	5	-5	33	-20	-15	9	-10	-15	2	30
04-35.9342-109.7522-2-15-						0-N09469	-5	6	-5	34	-20	25	23	-10	-15	2	38
04-35.9408-109.8011-2-15-						0-N09470	-5	5	-5	24	-20	-15	8	-10	-15	2	31
04-35.9533-109.7967-2-15-						0-N09471	-5	5	-5	24	-20	20	9	-10	-15	2	39
04-35.9664-109.7539-2-15-						0-N09472	-5	-5	-5	11	-20	-15	6	-10	-15	2	23
04-35.9844-109.7503-2-15-						0-N09473	-5	7	-5	15	-20	-15	-5	-10	-15	2	18
04-35.9797-109.7942-2-15-						0-N09474	-5	-5	-5	37	-20	16	6	-10	-15	2	41
04-35.9736-109.8131-2-15-						0-N09475	-5	-5	-5	25	-20	16	11	-10	-15	2	27
04-35.9914-109.8325-2-15-						0-N09476	-5	-5	-5	23	-20	-15	15	-10	-15	2	33
04-35.5867-109.9328-2-15-						0-N09478	-5	7	-5	18	-20	17	7	-10	-15	2	44
04-35.5936-109.9589-2-99-						0-N09479	-5	-5	-5	18	-20	-15	9	-10	-15	2	49
04-35.6003-109.9897-2-15-						0-N09480	-5	-5	-5	25	-20	-15	11	-10	-15	1	33
04-35.5333-109.8978-2-15-						0-N09483	-5	-5	-5	18	-20	17	6	-10	-15	2	31
04-35.5356-109.8961-2-15-						0-N09484	-5	-5	-5	23	-20	-15	14	-10	-15	2	35
04-35.5022-109.9147-2-15-						0-N09485	-5	5	-5	19	-20	-15	14	-10	-15	2	41
04-35.5022-109.9406-2-15-						0-N09486	-5	-5	-5	-10	-20	-15	9	-10	-15	2	38
04-35.5186-109.9647-2-15-						0-N09487	-5	-5	-5	27	-20	33	5	-10	-15	2	43
04-35.5269-109.9769-2-15-						0-N09489	-5	-5	-5	23	-20	-15	12	-10	-15	2	45
04-35.6558-109.9956-2-15-						0-N09490	-5	-5	-5	18	-20	-15	19	-10	-15	2	44
04-35.6333-109.9683-2-15-						0-N09491	-5	-5	-5	18	-20	-15	10	-10	-15	2	47
04-35.1736-109.3292-2-15-						0-N09494	-5	5	-5	20	-20	-15	7	-10	-15	2	19
04-35.1800-109.3233-2-11-						0-N09495	-5	-5	-5	-10	-20	-15	10	-10	-15	-1	31
04-35.1689-109.3178-2-15-						0-N09496	-5	5	-5	27	-20	-15	5	-10	-15	1	20
04-35.1714-109.3158-2-15-						0-N09497	-5	-5	-5	14	-20	-15	7	-10	-15	1	22
04-35.8917-109.4669-2-15-						0-N09498	-5	-5	-5	29	-20	-15	14	-10	-15	2	36
04-35.8781-109.4747-2-15-						0-N09499	-5	-5	-5	30	-20	-15	8	-10	-15	2	29
04-35.8608-109.4939-2-15-						0-N09500	-5	5	-5	29	-20	18	13	-10	-15	2	27
04-35.8575-109.4967-2-15-						0-N09501	-5	-5	-5	35	-20	22	13	-10	19	2	39
04-35.9108-109.4906-2-15-						0-N09503	-5	-5	-5	20	-20	-15	8	-10	-15	2	24
04-35.9356-109.4672-2-15-						0-N09506	-5	-5	-5	21	-20	-15	7	-10	-15	2	29
04-35.9331-109.4403-2-15-						0-N09507	-5	5	-5	23	-20	-15	15	-10	-15	1	29
04-35.9358-109.4403-2-15-						0-N09508	-5	6	-5	17	-20	-15	7	-10	-15	2	32
04-35.9525-109.4508-2-15-						0-N09509	-5	5	-5	22	-20	-15	5	-10	-15	1	24
04-35.9700-109.4658-2-15-						0-N09510	-5	6	-5	17	-20	-15	11	-10	-15	1	25
04-35.9775-109.4606-2-15-						0-N09511	-5	6	-5	23	-20	-15	9	-10	-15	1	22

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
04-	35.7794-	109.8861-	2-	15-	0-	N09448	62420	-0.07	518	16180	62	-56	7.8	38	5.4	5	1.2	23440	8.5	19170	31	0.3
04-	35.7903-	109.8906-	2-	15-	0-	N09449	35970	-0.04	274	3764	38	-33	2.7	24	1.4	3	0.7	7634	15.7	8019	17	0.3
04-	35.7903-	109.8736-	2-	15-	0-	N09450	67270	-0.07	484	21990	72	-60	8.4	41	5.6	6	1.3	24690	7.5	18220	30	0.4
04-	35.8167-	109.8953-	2-	15-	0-	N09452	57410	-0.06	536	14680	54	-59	5.2	27	5.0	4	1.2	17360	9.1	19770	23	0.3
04-	35.8419-	109.8828-	2-	15-	0-	N09453	60380	-0.07	540	15070	70	-55	8.1	38	5.5	5	1.3	21740	9.9	19440	32	0.4
04-	35.8700-	109.8953-	2-	15-	0-	N09454	46420	-0.05	443	67670	67	-63	6.5	35	3.1	5	1.0	21310	15.7	13690	34	0.4
04-	35.8278-	109.8119-	2-	15-	0-	N09456	45360	-0.05	361	10300	57	-43	5.3	37	3.6	5	1.0	13750	20.6	15310	26	0.5
04-	35.8328-	109.7886-	2-	15-	0-	N09457	33870	-0.05	410	12560	35	-40	2.7	24	1.4	3	0.9	10110	18.4	15420	15	0.4
04-	35.8311-	109.7519-	2-	15-	0-	N09458	34600	-0.05	458	15330	38	-46	3.1	39	1.8	3	1.1	13910	31.6	16240	10	0.5
04-	35.8567-	109.7592-	2-	15-	0-	N09460	54530	-0.05	473	20550	56	-59	5.3	30	3.8	5	1.0	16090	10.0	20500	31	0.3
04-	35.8697-	109.7525-	2-	15-	0-	N09461	36250	-0.04	450	10110	34	-51	3.1	19	1.9	3	0.8	9490	10.9	20110	14	0.3
04-	35.8747-	109.7806-	2-	15-	0-	N09462	60540	-0.07	391	56550	64	-54	6.8	38	4.2	4	1.0	19790	6.2	18580	27	0.3
04-	35.8886-	109.7575-	2-	15-	0-	N09463	55320	-0.07	397	50450	57	-54	8.0	39	4.3	4	1.3	23280	7.3	16680	31	0.4
04-	35.9072-	109.7825-	2-	15-	0-	N09464	53970	-0.06	495	17970	56	-60	4.8	34	3.1	5	1.0	16940	10.8	17510	24	0.4
04-	35.9181-	109.7992-	2-	15-	0-	N09465	62760	-0.06	390	32820	57	302	7.1	41	5.1	5	1.0	21830	6.6	18810	26	0.3
04-	35.9244-	109.8011-	2-	15-	0-	N09466	47010	-0.06	477	22500	50	-49	4.9	24	3.2	4	0.8	14590	8.8	16530	21	0.3
04-	35.9219-	109.7794-	2-	15-	0-	N09468	53950	-0.06	522	16680	46	-52	5.5	31	4.2	4	1.2	17060	8.3	19500	29	0.3
04-	35.9342-	109.7522-	2-	15-	0-	N09469	59930	-0.06	367	27990	55	-54	6.0	42	4.1	4	1.0	20090	6.9	19670	28	0.3
04-	35.9408-	109.8011-	2-	15-	0-	N09470	53930	-0.06	465	28820	57	-58	5.8	32	3.8	4	1.0	18840	10.6	18630	27	0.3
04-	35.9533-	109.7967-	2-	15-	0-	N09471	62120	-0.07	354	40530	65	-50	6.6	41	4.4	4	0.9	20120	5.9	19070	24	0.3
04-	35.9664-	109.7539-	2-	15-	0-	N09472	46470	-0.06	411	25350	45	-45	4.6	29	3.5	3	0.9	15320	7.6	17590	21	0.3
04-	35.9844-	109.7503-	2-	15-	0-	N09473	41950	-0.05	455	12800	41	-57	3.6	24	1.8	3	0.9	11900	14.5	18800	21	0.4
04-	35.9797-	109.7942-	2-	15-	0-	N09474	62410	-0.06	334	41720	57	-57	6.8	41	5.3	5	1.1	21980	6.4	17700	27	0.4
04-	35.9736-	109.8131-	2-	15-	0-	N09475	56240	-0.06	417	29350	54	-50	5.9	33	3.4	4	1.0	17720	7.1	19690	23	0.4
04-	35.9914-	109.8325-	2-	15-	0-	N09476	55920	-0.07	406	32990	49	-48	6.2	37	4.3	4	1.1	18190	7.3	18180	23	0.3
04-	35.5867-	109.9328-	2-	15-	0-	N09478	51740	-0.05	605	16340	57	-68	5.4	35	3.1	4	1.3	17910	9.9	23200	28	0.4
04-	35.5936-	109.9589-	2-	99-	0-	N09479	53190	-0.05	468	26780	54	-69	5.7	35	3.8	4	1.1	19510	9.5	23210	32	0.4
04-	35.6003-	109.9897-	2-	15-	0-	N09480	47570	-0.05	563	7947	68	-62	6.1	37	2.6	5	1.1	18310	16.1	18630	25	0.4
04-	35.5333-	109.8978-	2-	15-	0-	N09483	45420	-0.07	553	22930	83	-62	8.4	61	2.2	6	1.5	28090	31.1	17200	42	0.5
04-	35.5356-	109.8961-	2-	15-	0-	N09484	58030	-0.05	557	27920	62	-68	6.0	37	3.9	5	1.2	19240	8.3	19210	33	0.4
04-	35.5022-	109.9147-	2-	15-	0-	N09485	55130	-0.05	529	24310	66	-66	6.4	39	3.6	4	1.3	18940	9.6	21330	27	0.4
04-	35.5022-	109.9406-	2-	15-	0-	N09486	42840	-0.05	506	23810	61	-59	5.5	33	2.5	4	1.1	16210	19.3	19260	26	0.5
04-	35.5186-	109.9647-	2-	15-	0-	N09487	43840	-0.06	537	25040	55	-57	6.3	31	2.5	4	1.2	17830	10.5	18140	27	0.3
04-	35.5269-	109.9769-	2-	15-	0-	N09489	46260	-0.04	523	27340	42	-66	4.0	24	3.4	3	0.8	12070	5.7	20620	21	0.2
04-	35.6558-	109.9956-	2-	15-	0-	N09490	52070	-0.04	733	25370	45	-74	4.2	21	2.1	3	1.2	14290	6.7	20660	28	0.2
04-	35.6333-	109.9683-	2-	15-	0-	N09491	50500	-0.05	699	23110	59	-65	4.5	27	1.9	4	1.3	14940	9.9	18520	27	0.3
04-	35.1736-	109.3292-	2-	15-	0-	N09494	33360	-0.06	711	18980	52	-51	6.4	41	4.9	4	1.4	28750	30.8	13430	32	0.5
04-	35.1800-	109.3233-	2-	11-	0-	N09495	38860	-0.04	781	8169	60	-64	2.9	30	1.6	4	1.3	12510	24.2	10100	27	0.5
04-	35.1689-	109.3178-	2-	15-	0-	N09496	35410	-0.05	567	12970	55	-63	6.2	36	2.5	4	1.2	24620	23.2	15910	33	0.4
04-	35.1714-	109.3158-	2-	15-	0-	N09497	39520	-0.04	622	11450	36	-55	2.6	15	1.7	3	0.8	8922	7.8	20560	17	0.2
04-	35.8917-	109.4669-	2-	15-	0-	N09499	64160	-0.07	1103	22670	73	-45	11.2	52	5.5	6	1.6	29880	13.2	15660	36	0.5
04-	35.8781-	109.4747-	2-	15-	0-	N09499	61670	-0.06	819	18200	64	-46	10.6	53	5.2	5	1.5	30160	8.2	18260	33	0.5
04-	35.8608-	109.4939-	2-	15-	0-	N09500	54630	-0.06	774	26750	73	-59	8.4	46	4.7	5	1.4	27860	7.7	16750	34	0.3
04-	35.8575-	109.4967-	2-	15-	0-	N09501	60960	-0.07	2578	24980	84	-49	9.6	52	4.9	5	2.0	34380	21.3	14100	33	0.5
04-	35.9108-	109.4906-	2-	15-	0-	N09503	46770	-0.06	924	17770	55	-50	6.4	34	3.5	4	0.8	21180	9.5	16210	26	0.4
04-	35.9356-	109.4672-	2-	15-	0-	N09506	51610	-0.05	1250	18950	59	-57	6.9	41	2.9	4	0.7	22410	12.3	13460	25	0.4
04-	35.9331-	109.4403-	2-	15-	0-	N09507	61490	-0.06	1593	8184	72	-43	6.4	55	3.8	6	1.0	28600	55.7	9084	40	0.9
04-	35.9358-	109.4403-	2-	15-	0-	N09508	50950	-0.04	1664	19780	68	-51	6.8	49	3.3	5	1.7	24020	18.5	13680	27	0.5
04-	35.9525-	109.4508-	2-	15-	0-	N09509	36190	-0.05	442	11690	52	-46	4.8	49	2.2	4	1.2	15080	27.9	14190	23	0.4
04-	35.9700-	109.4658-	2-	15-	0-	N09510	36670	-0.04	469	10380	47	-51	4.0	40	2.6	4	1.1	14610	26.7	13120	23	0.5
04-	35.9775-	109.4606-	2-	15-	0-	N09511	43080	-0.05	578	13740	57	-55	4.1	39	2.8	4	1.1	18410	20.6	14090	23	0.4

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
04-	35.7794-	109.8861-	2-	15-	0-	N09448	16910	325	7482	76	-2	8.7	5.4	298	-1	-1	11.2	3805	68	3.3	87	0.275
04-	35.7903-	109.8906-	2-	15-	0-	N09449	5103	96	2308	26	-1	3.6	2.3	-92			8.6	2955	27	3.1	26	0.302
04-	35.7903-	109.8736-	2-	15-	0-	N09450	16280	306	6067	65	-2	9.5	6.1	-168	-1	-1	12.2	3441	71	4.0	103	0.288
04-	35.8167-	109.8953-	2-	15-	0-	N09452	14830	295	8258	59	-1	6.4	4.1	-181	-1	-1	9.0	3205	57	3.5	46	0.331
04-	35.8419-	109.8828-	2-	15-	0-	N09453	15100	328	6967	93	-2	8.4	5.4	-181	-1	-1	13.2	4269	62	3.3	72	0.264
04-	35.8700-	109.8953-	2-	15-	0-	N09454	14610	295	6074	-18	-1	5.4	4.6	519	-1	-1	9.8	3774	70	3.1	89	0.419
04-	35.8278-	109.8119-	2-	15-	0-	N09456	11810	178	3588	48	-1	5.6	4.7	-122	-1	-1	10.2	2838	39	3.9	-59	0.346
04-	35.8328-	109.7886-	2-	15-	0-	N09457	7207	251	3582	41	-1	2.9	2.8	-144			5.8	2164	30	2.3	-11	0.388
04-	35.8311-	109.7519-	2-	15-	0-	N09458	6137	315	5507	59	-1	3.7	3.6	-154	-1	-1	7.6	3010	42	4.1	61	0.383
04-	35.8567-	109.7592-	2-	15-	0-	N09460	12660	277	6580	58	-1	6.1	4.1	-160	-1	-1	9.1	3292	55	3.3	63	0.320
04-	35.8697-	109.7525-	2-	15-	0-	N09461	6673	186	5995	60	-1	3.5	2.7	-129	-1		5.8	2043	25	1.7	48	0.291
04-	35.8747-	109.7806-	2-	15-	0-	N09462	18680	268	5302	62	-2	7.2	4.6	350	-1	-1	9.6	3227	70	2.7	-19	0.384
04-	35.8886-	109.7575-	2-	15-	0-	N09463	16350	278	5864	77	-2	8.0	4.9	-171	-1	-1	11.1	3378	68	3.6	79	0.305
04-	35.9072-	109.7825-	2-	15-	0-	N09464	12250	291	6539	54	-1	6.2	4.0	-163	-1	-1	9.2	3407	54	3.8	87	0.312
04-	35.9181-	109.7992-	2-	15-	0-	N09465	19020	249	5258	57	-2	8.3	4.3	-156	-1	-1	10.1	3322	72	3.3	46	0.347
04-	35.9244-	109.8011-	2-	15-	0-	N09466	12570	226	5894	61	-1	5.1	3.3	-156	-1	-1	8.0	2696	51	2.6	50	0.354
04-	35.9219-	109.7794-	2-	15-	0-	N09468	12080	277	6717	78	-1	6.4	3.9	-167	-1	-1	8.7	3137	49	2.3	70	0.274
04-	35.9342-	109.7522-	2-	15-	0-	N09469	17150	246	5214	75	-1	7.4	4.0	293	-1	-1	9.9	2963	65	2.7	82	0.313
04-	35.9408-	109.8011-	2-	15-	0-	N09470	16140	264	5585	56	-1	6.8	4.7	-155	-1	-1	9.3	2812	59	3.1		0.311
04-	35.9533-	109.7967-	2-	15-	0-	N09471	18890	245	4408	78	-2	7.7	4.5	292	-1	-1	10.6	2755	68	3.8	-29	0.332
04-	35.9664-	109.7539-	2-	15-	0-	N09472	12510	188	5262	70	-1	5.7	3.9	237	-1	-1	8.0	2176	44	3.6	58	0.301
04-	35.9844-	109.7503-	2-	15-	0-	N09473	7637	245	6448	47	-1	4.1	3.0	-152	-1	-1	6.5	2882	37	3.5	-30	0.349
04-	35.9797-	109.7942-	2-	15-	0-	N09474	18320	245	4347	67	-2	8.4	5.4	291	-1	-1	10.9	2995	67	3.8	91	0.308
04-	35.9736-	109.8131-	2-	15-	0-	N09475	12830	237	5031	57	-1	5.2		303	-1	-1	9.9	2722	59	1.8	-15	0.280
04-	35.9914-	109.8325-	2-	15-	0-	N09476	13510	237	4699	82	-2	7.1	4.5	-157	-1	-1	10.7	2753	58	3.5	76	0.265
04-	35.5867-	109.9328-	2-	15-	0-	N09478	17590	397	8249	66	-1	6.2	4.5	369	-1	-1	8.3	3050	51	3.2	69	0.316
04-	35.5936-	109.9589-	2-	99-	0-	N09479	21800	343	8205	61	-1	6.3	4.9	347	-1	-1	10.4	3152	61	3.2	-60	0.283
04-	35.6003-	109.9897-	2-	15-	0-	N09480	12130	384	9069	42	-1	5.3	4.7	-202	-1	-1	9.5	3921	50	3.9	50	0.301
04-	35.5333-	109.8978-	2-	15-	0-	N09483	15700	463	8974	52	-1	6.9	6.4	-203	2	-1	12.6	6393	80	4.6	101	0.359
04-	35.5356-	109.8961-	2-	15-	0-	N09484	17320	323	8011	58	-1	6.6	5.1	394	-1	-1	9.6	3864	59	2.2	82	0.345
04-	35.5022-	109.9147-	2-	15-	0-	N09485	14950	288	8090	84	-1	6.5	5.7	-169	-1	-1	11.1	2980	61	2.9	43	0.267
04-	35.5022-	109.9406-	2-	15-	0-	N09486	13750	376	7979	50	-1	4.7	4.6	-197	1	-1	9.1	3621	56	2.8	-39	0.362
04-	35.5186-	109.9647-	2-	15-	0-	N09487	17160	353	7954	71	-1	5.4	4.2	-183	-1	-1	7.5	3622	49	3.5	-37	0.360
04-	35.5269-	109.9769-	2-	15-	0-	N09489	17570	271	8085	55	-1	4.3	3.1	254	-1		6.1	2263	46	1.7	-45	0.348
04-	35.6558-	109.9956-	2-	15-	0-	N09490	13550	236	12910	61	-1	4.7	4.2	416	-1	-1	6.9	2063	48	1.9		0.284
04-	35.6333-	109.9683-	2-	15-	0-	N09491	14030	301	11110	63	-1	4.6	4.0	387	-1	-1	7.6	2757	50	2.1	57	0.304
04-	35.1736-	109.3292-	2-	15-	0-	N09494	8128	442	6412	64	-1	4.9	4.3	-183	-1	-1	9.8	6273	94	3.6	62	0.324
04-	35.1800-	109.3233-	2-	11-	0-	N09495	12260	224	9219	35	-1	2.8	3.7	-156			8.6	3492	43	2.7	33	0.513
04-	35.1689-	109.3178-	2-	15-	0-	N09496	9221	437	7169	47	-1	4.7	4.8	-177	-1	-1	7.8	5190	71	3.5	70	0.326
04-	35.1714-	109.3158-	2-	15-	0-	N09497	6871	177	9079	44	-1	2.6	1.8	229	-1		3.8	2195	30	2.0	-30	0.426
04-	35.8917-	109.4669-	2-	15-	0-	N09498	19560	531	3149	110	-2	10.2	6.3	365	-1	-1	11.4	4524	63	3.1	83	0.276
04-	35.8781-	109.4747-	2-	15-	0-	N09499	15690	441	2486	87	-1	9.7	5.4	-180	-1	-1	9.8	3835	60	3.7	68	0.240
04-	35.8608-	109.4939-	2-	15-	0-	N09500	17850	538	4255	59	-1	9.1	4.7	-196	-1	-1	10.0	4057	60	4.2		0.263
04-	35.8575-	109.4967-	2-	15-	0-	N09501	18750	475	3904	66	-2	9.5	5.9	-220	-1	-1	11.9	4809	79	4.1	55	0.297
04-	35.9108-	109.4906-	2-	15-	0-	N09503	13060	416	4988	50	-1	6.3	4.4	-185	-1	-1	8.3	3556	46	2.8	55	0.272
04-	35.9356-	109.4672-	2-	15-	0-	N09506	14950	452	4545	51	-1	6.4	4.4	-182	-1	-1	8.4	3590	60	2.8	48	0.310
04-	35.9331-	109.4403-	2-	15-	0-	N09507	7845	272	2945	40	-1	8.2	5.8	-138	-1	-1	14.4	4864	79	6.2	42	0.367
04-	35.9358-	109.4403-	2-	15-	0-	N09508	16510	446	4574	72	-1	6.5	5.3	-202	-1		9.8	3686	63	3.8	36	0.331
04-	35.9525-	109.4508-	2-	15-	0-	N09509	7669	273	6002	32	-1	4.8	4.0	-149	1	-1	8.6	3825	43	3.8	49	0.349
04-	35.9700-	109.4658-	2-	15-	0-	N09510	5935	249	5467	40	-1	4.3	3.3	-139	-1		7.8	3807	49	3.1	37	0.409
04-	35.9775-	109.4606-	2-	15-	0-	N09511	7454	264	6220	52	-1	5.5	4.2	-143	-1	-1	9.1	3266	45	4.1	45	0.310

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04	35.9800	109.4625	2	15	0	N09512	09/26/78	17	22		C					8	1	6	4	6		1	2	1	3	4	2	9					3.03
04	35.9833	109.4931	2	15	0	N09513	09/26/78	18	21		C					9	1	6	4	6		1	2	1	2	3	2	9					3.20
04	35.9844	109.3744	2	15	0	N09514	09/27/78	9	20		C					6	1	6	4	6		1	2	1	3	4	1	9					2.65
04	35.9694	109.4042	2	15	0	N09515	09/27/78	10	21		C					8	1	6	4	6		1	2	1	3	4	1	9					2.98
04	35.9569	109.3400	2	15	0	N09516	09/27/78	12	22		C					6	1	6	4	6		1	2	1	3	5	2	9					2.79
04	35.9556	109.3372	2	15	0	N09517	09/27/78	12	22		C					8	1	6	4	6		1	2	1	4	5	2	9					3.22
04	35.9442	109.3464	2	15	0	N09518	09/27/78	13	21		C					11	1	6	4	6		1	2	1	4	5	3	9					3.64
04	35.9181	109.3042	2	15	0	N09519	09/27/78	16	20		C					10	1	6	4	6		1	2	1	4	5	4	9					3.68
04	35.9228	109.3033	2	15	0	N09520	09/27/78	16	20		C					11	1	6	4	6		1	2	1	4	5	4	9					4.38
04	35.9267	109.3183	2	15	0	N09521	09/27/78	17	20		C					8	1	6	4	6		1	2	1	4	5	4	9					3.59
04	35.9947	109.2858	2	15	0	N09522	09/28/78	13	23		C					8	1	6	4	8		1	2	2	4	5	1	9					3.60
04	35.9947	109.2806	2	15	0	N09523	09/28/78	13	23		C					8	1	6	4	8		1	2	2	4	5	1	9					2.42
04	35.9878	109.2517	2	15	0	N09524	09/28/78	14	24		C					8	1	6	4	8		1	2	2	4	5	1	9					3.16
04	35.8636	109.3642	2	15	0	N09527	09/29/78	13	23		C					7	1	6	4	6		1	2	1	4	4	2	3					4.19
04	35.8667	109.3622	2	15	0	N09528	09/29/78	13	23		C					7	1	6	4	6		1	2	1	4	4	2	3					3.39
04	35.8675	109.3717	2	15	0	N09529	09/29/78	13	23		C					11	1	6	4	6		1	2	1	4	4	2	3					3.98
04	35.8450	109.3778	2	15	0	N09530	09/29/78	14	24		C					8	1	6	4	6		1	2	1	3	4	2	9					3.31
04	35.8244	109.4183	2	15	0	N09531	09/29/78	15	24		C					9	1	6	4	6		1	2	1	3	4	2	9					3.32
04	35.8008	109.4322	2	15	0	N09534	09/29/78	16	24		C					10	1	6	4	6		1	2	1	3	4	2	9					5.06
04	35.7711	109.4389	2	15	0	N09535	09/29/78	16	24		C					9	1	6	4	6		1	2	1	3	3	2	9					3.17
04	35.7900	109.4050	2	15	0	N09536	09/29/78	17	24		C					9	1	6	4	6		1	2	1	3	3	2	9					2.93
04	35.7908	109.3856	2	15	0	N09537	09/29/78	17	24		C					8	1	6	4	6		1	2	1	3	3	2	9					3.63
04	35.7553	109.3572	2	15	0	N09538	09/29/78	19	22		C					8	1	6	4	6		1	2	1	4	4	2	9					3.77
04	35.7514	109.3553	2	15	0	N09539	09/29/78	19	22		C					8	1	6	4	6		1	2	1	4	4	2	9					2.48
04	35.7661	109.3733	2	15	0	N09540	09/30/78	10	21		C					8	1	6	4	6		1	2	1	3	4	1	9					2.21
04	35.7692	109.3042	2	15	0	N09542	09/30/78	11	22		C					8	1	6	4	6		1	2	1	4	5	1	9					2.43
04	35.7686	109.2639	2	15	0	N09543	09/30/78	12	23		C					8	1	6	4	6		1	2	1	4	5	1	9					2.20
04	35.8047	109.2636	2	12	0	N09544	09/30/78	13	23	21.7	C		8.3		335	8	1	6	4	6	2	3	5	2	4	3	5	2	9					2.01
04	35.8019	109.3483	2	15	0	N09546	09/30/78	15	24		C					10	1	6	4	6		1	2	1	3	4	1	9					3.20
04	35.7992	109.3358	2	15	0	N09547	09/30/78	15	24		C					9	1	6	4	6		1	2	1	4	4	1	9					4.85
04	35.7964	109.3364	2	15	0	N09548	09/30/78	15	24		C					10	1	6	4	6		1	2	1	4	4	1	9					3.35
04	35.8167	109.3086	2	15	0	N09549	09/30/78	16	24		C					9	1	6	4	6		1	2	1	4	4	1	9					2.43
04	35.8311	109.2825	2	15	0	N09550	09/30/78	17	23		C					11	1	6	4	6		1	2	1	4	4	1	9					2.51
04	35.8297	109.2789	2	15	0	N09551	09/30/78	17	23		C					8	1	6	4	6		1	2	1	4	4	1	9					3.08
04	35.8483	109.2725	2	15	0	N09552	09/30/78	18	23		C					12	1	6	4	6		1	2	1	4	4	1	9					2.98
04	35.8919	109.4222	2	15	0	N09554	10/01/78	8	19		C					6	1	6	4	6		1	2	1	3	4	2	9					3.06
04	35.8892	109.4242	2	15	0	N09555	10/01/78	8	19		C					9	1	6	4	6		1	2	1	3	4	2	9					3.15
04	35.8203	109.4869	2	15	0	N09556	10/01/78	9	20		C					8	1	6	4	6		1	2	3	3	4	2	9					2.47
04	35.8081	109.4717	2	15	0	N09557	10/01/78	9	20		C					10	1	6	4	6		1	2	3	3	3	2	9					1.52
04	35.7897	109.4728	2	15	0	N09558	10/01/78	9	20		C					6	1	6	4	6		1	2	1	3	4	2	9					4.10
04	35.7600	109.4861	2	15	0	N09559	10/01/78	9	20		C					6	1	6	4	6		1	2	1	3	3	2	9					5.11
04	35.7372	109.4686	2	12	0	N09560	10/01/78	10	20	22.3	C		8.0		375	6	1	4	5	4	2	2	1	1	3	2	3	2	9					7.13
04	35.7367	109.4706	2	15	0	N09561	10/01/78	10	20		C					6	1	6	4	6		1	2	3	3	3	2	9					2.98
04	35.7544	109.4306	2	15	0	N09563	10/01/78	10	20		C					8	1	4	4	4		1	2	3	2	4	2	9					2.76
04	35.7492	109.4125	2	15	0	N09564	10/01/78	11	21		C					8	1	6	4	6		1	2	1	3	3	2	9					3.30
04	35.7172	109.4656	2	15	0	N09565	10/01/78	11	21		C					8	1	6	4	6		1	2	3	3	3	2	9					2.65
04	35.7097	109.4956	2	15	0	N09566	10/01/78	12	21		C					9	1	6	4	6		1	2	3	3	3	2	9					2.82
04	35.6994	109.4750	2	15	0	N09567	10/01/78	12	21		C					8	1	6	4	6		1	2	3	3	3	2	9					3.55
04	35.6917	109.4453	2	15	0	N09568	10/01/78	12	21		C					12	1	6	4	6		1	2	3	3	3	2	9					2.85
04	35.6883	109.4361	2	15	0	N09569	10/01/78	13	22		C					7	1	6	4	6		1	2	3	3	3	2	9					3.04
04	35.6808	109.4194	2	15	0	N09570	10/01/78	13	22		C					10	1	6	4	6		1	2	3	3	3	2	9					2.54

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

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
04-	35.9800-	109.4625-	2-	15-	0-	N09512	-5	8	-5	24	-20	-15	-5	-10	-15	1	22
04-	35.9833-	109.4931-	2-	15-	0-	N09513	-5	-5	-5	24	-20	-15	7	-10	-15	1	27
04-	35.9844-	109.3744-	2-	15-	0-	N09514	-5	7	-5	23	-20	-15	12	-10	-15	2	32
04-	35.9694-	109.4042-	2-	15-	0-	N09515	-5	5	-5	27	-20	-15	15	-10	-15	2	32
04-	35.9569-	109.3400-	2-	15-	0-	N09516	-5	-5	-5	30	-20	31	-5	-10	-15	2	27
04-	35.9556-	109.3372-	2-	15-	0-	N09517	-5	5	-5	23	-20	-15	7	-10	-15	2	28
04-	35.9442-	109.3464-	2-	15-	0-	N09518	-5	-5	-5	27	-20	25	17	-10	-15	2	26
04-	35.9181-	109.3042-	2-	15-	0-	N09519	-5	8	-5	21	-20	-15	9	-10	15	1	32
04-	35.9228-	109.3033-	2-	15-	0-	N09520	-5	8	-5	23	-20	23	11	-10	-15	1	25
04-	35.9267-	109.3183-	2-	15-	0-	N09521	-5	-5	-5	23	-20	-15	13	-10	-15	1	25
04-	35.9947-	109.2858-	2-	15-	0-	N09522	-5	-5	-5	22	-20	-15	13	-10	-15	2	26
04-	35.9947-	109.2806-	2-	15-	0-	N09523	-5	-5	-5	28	-20	-15	10	-10	-15	2	34
04-	35.9878-	109.2517-	2-	15-	0-	N09524	-5	6	-5	26	-20	-15	13	-10	-15	2	36
04-	35.8636-	109.3642-	2-	15-	0-	N09527	-5	6	-5	23	-20	-15	7	-10	-15	1	36
04-	35.8667-	109.3622-	2-	15-	0-	N09528	-5	-5	-5	21	-20	-15	5	-10	-15	-1	28
04-	35.8675-	109.3717-	2-	15-	0-	N09529	-5	5	-5	16	-20	-15	-5	-10	-15	-1	34
04-	35.8450-	109.3778-	2-	15-	0-	N09530	-5	-5	-5	27	-20	-15	8	-10	-15	2	29
04-	35.8244-	109.4183-	2-	15-	0-	N09531	-5	5	-5	24	-20	-15	-5	-10	-15	1	38
04-	35.8008-	109.4322-	2-	15-	0-	N09534	-5	5	-5	18	-20	-15	11	-10	-15	1	29
04-	35.7711-	109.4389-	2-	15-	0-	N09535	-5	-5	-5	22	-20	29	-5	-10	-15	2	23
04-	35.7900-	109.4050-	2-	15-	0-	N09536	-5	-5	-5	17	-20	-15	11	-10	-15	2	31
04-	35.7908-	109.3856-	2-	15-	0-	N09537	-5	-5	-5	30	-20	-15	-5	-10	-15	2	28
04-	35.7553-	109.3572-	2-	15-	0-	N09538	-5	-5	-5	11	-20	-15	-5	-10	-15	1	17
04-	35.7514-	109.3553-	2-	15-	0-	N09539	-5	8	-5	22	-20	-15	-5	-10	-15	-1	31
04-	35.7661-	109.3733-	2-	15-	0-	N09540	-5	-5	-5	21	-20	-15	7	-10	-15	1	16
04-	35.7692-	109.3042-	2-	15-	0-	N09542	-5	-5	-5	26	-20	-15	-5	-10	-15	-1	19
04-	35.7686-	109.2639-	2-	15-	0-	N09543	-5	-5	-5	-10	-20	-15	-5	-10	-15	-1	17
04-	35.8047-	109.2636-	2-	12-	0-	N09544	-5	-5	-5	16	-20	-15	-5	-10	-15	-1	16
04-	35.8019-	109.3483-	2-	15-	0-	N09546	-5	5	-5	18	-20	-15	7	-10	-15	2	23
04-	35.7992-	109.3358-	2-	15-	0-	N09547	-5	-5	-5	20	-20	16	7	-10	-15	1	17
04-	35.7964-	109.3364-	2-	15-	0-	N09549	-5	5	-5	23	-20	-15	9	-10	-15	1	20
04-	35.8167-	109.3086-	2-	15-	0-	N09549	-5	-5	-5	21	-20	-15	-5	-10	-15	1	21
04-	35.8311-	109.2825-	2-	15-	0-	N09550	-5	-5	-5	32	-20	15	8	-10	-15	2	22
04-	35.8297-	109.2789-	2-	15-	0-	N09551	-5	-5	-5	20	-20	-15	6	-10	-15	1	18
04-	35.8483-	109.2725-	2-	15-	0-	N09552	-5	-5	-5	19	-20	-15	5	-10	-15	1	18
04-	35.8919-	109.4222-	2-	15-	0-	N09554	-5	10	-5	29	-20	-15	9	-10	-15	2	31
04-	35.8892-	109.4242-	2-	15-	0-	N09555	-5	7	-5	29	-20	-15	9	-10	-15	2	27
04-	35.8203-	109.4869-	2-	15-	0-	N09556	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	20
04-	35.8081-	109.4717-	2-	15-	0-	N09557	-5	10	-5	19	-20	-15	7	-10	-15	1	15
04-	35.7897-	109.4728-	2-	15-	0-	N09558	-5	9	-5	25	-20	-15	7	-10	-15	2	20
04-	35.7600-	109.4861-	2-	15-	0-	N09559	-5	-5	-5	24	-20	-15	17	-10	-15	1	30
04-	35.7372-	109.4686-	2-	12-	0-	N09560	-5	6	-5	20	-20	-15	9	-10	-15	1	16
04-	35.7367-	109.4706-	2-	15-	0-	N09561	-5	8	-5	15	-20	-15	-5	-10	-15	1	22
04-	35.7544-	109.4306-	2-	15-	0-	N09563	-5	8	-5	19	-20	15	8	-10	-15	2	19
04-	35.7492-	109.4125-	2-	15-	0-	N09564	-5	6	-5	16	-20	-15	8	-10	-15	2	18
04-	35.7172-	109.4656-	2-	15-	0-	N09565	-5	7	-5	23	-20	-15	5	-10	-15	1	18
04-	35.7097-	109.4956-	2-	15-	0-	N09566	-5	-5	-5	18	-20	-15	5	-10	-15	1	23
04-	35.6994-	109.4750-	2-	15-	0-	N09567	-5	-5	-5	24	-20	-15	8	-10	-15	1	11
04-	35.6917-	109.4453-	2-	15-	0-	N09568	-5	-5	-5	21	-20	-15	-5	-10	-15	1	15
04-	35.6883-	109.4361-	2-	15-	0-	N09569	-5	-5	-5	28	-20	-15	15	-10	-15	2	30
04-	35.6808-	109.4194-	2-	15-	0-	N09570	-5	6	-5	19	-20	-15	7	-10	-15	1	20

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
04-	35.9800-	109.4625-	2-	15-	0-	N09512	44030	-0.06	572	17700	61	-53	4.5	38	2.4	4	1.1	16130	21.2	14020	27	0.5
04-	35.9833-	109.4931-	2-	15-	0-	N09513	45270	-0.06	559	12830	64	-52	5.7	50	3.3	5	1.4	21140	27.2	15970	32	0.6
04-	35.9844-	109.3744-	2-	15-	0-	N09514	64730	-0.06	591	19380	63	-58	8.3	37	5.5	4	1.3	25190	8.8	18420	27	0.4
04-	35.9694-	109.4042-	2-	15-	0-	N09515	68560	-0.06	520	19850	69	-51	9.4	48	5.3	6	1.2	29490	9.6	18370	37	0.5
04-	35.9569-	109.3400-	2-	15-	0-	N09516	70990	-0.07	641	17160	74	-48	8.2	40	5.2	5	1.2	25790	8.6	14810	29	0.4
04-	35.9556-	109.3372-	2-	15-	0-	N09517	72530	-0.08	643	18770	83	-44	11.9	61	7.7	5	1.5	37320	12.7	19540	39	0.5
04-	35.9442-	109.3464-	2-	15-	0-	N09518	79930	-0.07	1182	17520	83	-47	12.1	63	8.3	6	1.8	40060	15.6	22910	44	0.5
04-	35.9181-	109.3042-	2-	15-	0-	N09519	53500	-0.06	784	9716	69	-51	7.4	42	3.8	6	1.4	23800	28.5	10830	30	0.5
04-	35.9228-	109.3033-	2-	15-	0-	N09520	49870	-0.06	599	10420	80	-51	7.2	49	3.8	6	1.3	25660	38.0	12560	34	0.7
04-	35.9267-	109.3183-	2-	15-	0-	N09521	48900	-0.06	447	9641	69	-51	7.5	44	3.6	5	1.4	24280	31.1	13420	34	0.7
04-	35.9947-	109.2858-	2-	15-	0-	N09522	59890	-0.06	649	10370	74	-69	7.2	45	5.5	6	1.4	20460	19.8	13540	26	0.6
04-	35.9947-	109.2806-	2-	15-	0-	N09523	64110	-0.06	482	10490	68	-70	6.9	33	6.0	6	1.3	20800	7.6	13510	31	0.4
04-	35.9878-	109.2517-	2-	15-	0-	N09524	56990	-0.06	547	8136	66	-60	5.4	26	3.9	5	1.2	16340	16.9	15690	25	0.5
04-	35.8636-	109.3642-	2-	15-	0-	N09527	51390	-0.07	2776	19310	79	-58	8.5	43	2.9	6	2.3	27430	34.7	9918	36	0.7
04-	35.8667-	109.3622-	2-	15-	0-	N09528	51530	-0.05	1525	18350	71	-63	6.6	36	2.4	5	0.9	20580	21.2	10800	34	0.5
04-	35.8675-	109.3717-	2-	15-	0-	N09529	54040	-0.06	461	36130	66	-61	6.8	39	4.4	5	1.2	21220	12.4	15370	33	0.5
04-	35.8450-	109.3778-	2-	15-	0-	N09530	61140	-0.06	475	42460	76	-59	5.9	34	4.3	5	1.2	18690	11.4	13430	30	0.4
04-	35.8244-	109.4183-	2-	15-	0-	N09531	52720	-0.06	1041	40710	63	-60	6.4	32	3.9	5	0.9	21960	18.2	10910	31	0.6
04-	35.8008-	109.4322-	2-	15-	0-	N09534	57460	-0.06	2346	22280	78	-67	7.9	45	3.5	6	2.1	27780	37.8	10750	36	0.7
04-	35.7711-	109.4389-	2-	15-	0-	N09535	61310	-0.06	1287	14290	63	-53	8.7	57	3.9	5	0.9	32980	17.6	17990	36	0.5
04-	35.7900-	109.4050-	2-	15-	0-	N09536	59360	-0.06	379	9318	56	-40	5.7	31	4.0	5	0.9	20080	9.3	18750	22	0.4
04-	35.7908-	109.3856-	2-	15-	0-	N09537	56940	-0.07	424	10750	64	-40	8.2	49	5.2	5	1.2	25220	15.9	17180	33	0.4
04-	35.7553-	109.3572-	2-	15-	0-	N09539	26540	-0.05	384	3999	63	86	4.1	64	1.3	5	1.2	15780	49.4	11830	24	0.7
04-	35.7514-	109.3553-	2-	15-	0-	N09539	41770	-0.05	492	11200	55	-60	4.5	30	2.6	5	1.1	15120	15.5	14830	27	0.4
04-	35.7661-	109.3733-	2-	15-	0-	N09540	35070	-0.05	374	5347	50	-48	4.2	34	2.0	4	0.8	12110	12.9	12400	22	0.4
04-	35.7692-	109.3042-	2-	15-	0-	N09542	29950	-0.05	338	3526	38	-42	3.7	48	2.1	4	1.1	12470	26.1	10610	22	0.4
04-	35.7686-	109.2639-	2-	15-	0-	N09543	31440	-0.04	335	3191	40	-50	3.2	31	-0.8	3	0.7	9516	17.4	13870	17	0.4
04-	35.8047-	109.2636-	2-	12-	0-	N09544	27090	-0.04	302	1961	36	-49	3.8	29	1.5	3	0.7	9498	12.8	8831	19	0.3
04-	35.8019-	109.3483-	2-	15-	0-	N09545	51030	-0.06	505	11700	74	-50	6.9	43	3.6	5	1.1	23380	17.9	17170	30	0.5
04-	35.7992-	109.3358-	2-	15-	0-	N09547	44790	-0.07	676	11300	86	-48	7.1	68	3.5	7	1.7	30080	48.0	13170	43	0.8
04-	35.7964-	109.3364-	2-	15-	0-	N09548	45580	-0.05	549	12850	76	-53	6.3	48	3.2	5	1.3	22490	23.3	16040	29	0.5
04-	35.8167-	109.3086-	2-	15-	0-	N09549	48930	-0.05	434	13980	62	-54	7.3	47	4.4	5	1.1	22420	12.3	16080	28	0.4
04-	35.8311-	109.2825-	2-	15-	0-	N09550	51400	-0.06	434	16150	60	-49	7.5	42	3.3	5	1.0	21420	10.9	16790	22	0.4
04-	35.8297-	109.2789-	2-	15-	0-	N09551	40260	-0.06	450	4933	72	-52	6.4	51	3.3	5	1.3	18580	27.6	13370	31	0.5
04-	35.8483-	109.2725-	2-	15-	0-	N09552	39190	-0.05	700	8864	63	-58	4.8	39	3.3	4	1.2	16120	21.7	16470	29	0.4
04-	35.8919-	109.4222-	2-	15-	0-	N09554	66530	-0.06	1217	24940	83	-55	9.1	56	4.4	6	1.8	31690	12.0	19560	34	0.4
04-	35.8892-	109.4242-	2-	15-	0-	N09555	62430	-0.06	1010	22720	82	-51	9.1	45	4.8	5	1.5	28420	15.1	15100	32	0.5
04-	35.8203-	109.4869-	2-	15-	0-	N09556	30730	-0.05	581	10210	51	-45	3.7	38	2.1	3	1.1	15200	28.1	15380	26	0.5
04-	35.8081-	109.4717-	2-	15-	0-	N09557	33040	-0.03	440	10340	34	-50	2.5	27	1.2	3	0.7	8307	9.3	15790	17	0.3
04-	35.7897-	109.4728-	2-	15-	0-	N09559	50460	-0.05	1375	22530	72	-63	6.9	38	3.3	5	1.0	24280	30.5	10430	36	0.6
04-	35.7600-	109.4861-	2-	15-	0-	N09560	53360	-0.06	2234	21640	81	-60	7.5	48	3.2	6	2.0	32120	42.4	12530	35	0.8
04-	35.7372-	109.4686-	2-	12-	0-	N09560	32970	-0.07	3049	11320	105	-50	8.5	112	2.3	8	3.3	51410	110.0	12070	52	1.2
04-	35.7367-	109.4706-	2-	15-	0-	N09561	38730	-0.04	471	5637	56	-57	3.6	40	2.4	4	1.2	18570	28.2	14920	27	0.5
04-	35.7544-	109.4306-	2-	15-	0-	N09563	53490	-0.05	580	12400	66	-59	7.1	34	3.7	5	1.1	21240	13.1	18720	27	0.4
04-	35.7492-	109.4125-	2-	15-	0-	N09564	38290	-0.05	603	6342	52	-56	4.4	45	2.1	4	1.3	19100	36.0	15860	24	0.5
04-	35.7172-	109.4656-	2-	15-	0-	N09565	41530	-0.05	635	5719	56	-57	5.8	39	2.2	4	1.2	22240	21.9	16920	27	0.4
04-	35.7097-	109.4956-	2-	15-	0-	N09566	42100	-0.04	590	6460	59	-63	4.3	36	2.4	4	1.0	17330	20.6	14570	25	0.5
04-	35.6994-	109.4750-	2-	15-	0-	N09567	43310	-0.05	560	7572	63	-62	5.7	53	2.4	5	1.3	22520	32.3	15560	30	0.6
04-	35.6917-	109.4453-	2-	15-	0-	N09568	34060	-0.05	615	5229	57	-49	3.8	39	1.6	3	1.1	20060	30.9	14450	20	0.5
04-	35.6883-	109.4361-	2-	15-	0-	N09569	50150	-0.06	533	6646	60	-54	6.6	46	3.5	5	1.4	21400	21.1	14770	30	0.6
04-	35.6808-	109.4194-	2-	15-	0-	N09570	47840	-0.05	518	4866	54	-62	5.2	38	2.3	4	1.0	16300	16.1	17250	25	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	
04-	35.9800-	109.4625-2-	15-			0-N09512	9586	299	6595	42	-1	5.1	4.1	-170	-1	-1	9.4	3435	49	3.5	-53	0.322
04-	35.9833-	109.4931-2-	15-			0-N09513	12900	348	7114	63	-1	6.1	4.5	-172	-1	-1	9.9	4496	56	4.3	38	0.323
04-	35.9844-	109.3744-2-	15-			0-N09514	17980	458	4782	77	-1	7.9	5.1	-190	-1	-1	9.6	4456	64	3.5	-32	0.276
04-	35.9694-	109.4042-2-	15-			0-N09515	17610	466	3513	72	-1	9.2	6.2	-182	-1	-1	11.0	3579	64	3.2	97	0.271
04-	35.9569-	109.3400-2-	15-			0-N09516	19810	449	3681	53	-2	8.3	5.3	-202	-1	-1	11.2	4108	60	3.0	55	0.249
04-	35.9556-	109.3372-2-	15-			0-N09517	23370	463	3046	84	-2	11.5	6.8	-192	-1	-1	14.0	4749	67	3.8	-80	0.230
04-	35.9442-	109.3464-2-	15-			0-N09518	21900	534	2348	102	-2	11.6	6.5	-197	-1	-1	12.6	4799	76	4.4	58	0.289
04-	35.9181-	109.3042-2-	15-			0-N09519	11520	361	4326	40	-1	7.1	4.7	-160	-1	-1	11.0	3495	54	4.2	-22	0.335
04-	35.9228-	109.3033-2-	15-			0-N09520	14020	450	5367	40	-1	6.4	5.5	-202	-1	1	12.9	4437	68	5.4	74	0.340
04-	35.9267-	109.3183-2-	15-			0-N09521	13950	403	6003	60	-1	6.8	5.9	261	-1	-1	12.4	4406	55	4.7	58	0.290
04-	35.9947-	109.2858-2-	15-			0-N09522	20860	560	6596	57	-1	6.4	5.0	-226	-1	-1	11.3	3373	47	4.4	36	0.319
04-	35.9947-	109.2806-2-	15-			0-N09523	20690	587	5910	53	-1	7.1	5.8	-225	-1	-1	10.4	3248	46	3.9	-63	0.233
04-	35.9878-	109.2517-2-	15-			0-N09524	18980	552	6728	39	-1	5.3	5.0	-229	-1	-1	10.3	2663	42	4.1	41	0.307
04-	35.8636-	109.3642-2-	15-			0-N09527	18730	586	6364	43	-1	7.0	5.8	-219	-1	-1	14.3	4438	64	5.2		0.293
04-	35.8667-	109.3622-2-	15-			0-N09528	17280	507	6302	-16	-1	5.6	4.3	-199	-1	-1	9.3	3597	56	3.5	45	0.365
04-	35.8675-	109.3717-2-	15-			0-N09529	26450	544	4302	65	-1	7.4	6.7	-199	-1	-1	11.5	3053	47	4.2	45	0.346
04-	35.8450-	109.3778-2-	15-			0-N09530	24840	643	4255	86	-2	6.6	5.4	-253	-1	-1	11.3	3180	50	3.7	66	0.293
04-	35.8244-	109.4183-2-	15-			0-N09531	25230	720	5133	-20	-1	6.4	5.3	-239	-1	-1	11.8	3240	49	3.9	83	0.281
04-	35.8008-	109.4322-2-	15-			0-N09534	22970	629	5937	-20	-1	6.3	5.1	-227	-1	-1	14.6	4741	68	6.0	-28	0.347
04-	35.7711-	109.4389-2-	15-			0-N09535	14600	499	3274	60	-1	8.9	5.6	-188	2	-1	11.4	3697	72	4.1	49	0.278
04-	35.7900-	109.4050-2-	15-			0-N09536	8721	280	3113	52	-1	6.3	4.6	-164	-1	-1	10.1	3398	60	2.4	32	0.290
04-	35.7908-	109.3856-2-	15-			0-N09537	10400	308	3620	55	-2	8.1	5.2	-158	-1	-1	11.5	3886	66	3.5	63	0.316
04-	35.7553-	109.3572-2-	15-			0-N09538	5116	302	4537	-14	-1	3.9	3.9	-142	-1	-1	8.6	4134	43	4.3	44	0.438
04-	35.7514-	109.3553-2-	15-			0-N09539	7111	285	7577	52	-1	4.9	4.6	-155	-1	-1	7.9	3336	40	3.8	40	0.314
04-	35.7661-	109.3733-2-	15-			0-N09540	7207	355	4907	44	-1	3.9	3.4	-173	-1	-1	7.3	2790	36	3.1	34	0.303
04-	35.7692-	109.3042-2-	15-			0-N09542	5154	227	4994	-14	-1	3.9	3.2	-140	-1	-1	6.9	2459	35	3.2	32	0.352
04-	35.7686-	109.2639-2-	15-			0-N09543	6169	200	5446	40	-1	3.3	2.8	-131	-1		5.8	2683	32	2.6	-43	0.379
04-	35.8047-	109.2636-2-	12-			0-N09544	3786	286	4443	30	-1	3.3	2.9	-143	-1		5.4	2473	25	2.3	47	0.372
04-	35.8019-	109.3483-2-	15-			0-N09546	14760	407	4374	49	-1	7.3	5.7	-197	-1	-1	11.5	4264	62	4.0	87	0.278
04-	35.7992-	109.3358-2-	15-			0-N09547	9969	503	3957	54	-1	7.5	6.9	-196	-1	-1	15.2	5029	68	6.2	-24	0.319
04-	35.7964-	109.3364-2-	15-			0-N09548	9437	473	4503	55	-1	6.4	5.1	-182	-1	-1	10.9	4083	51	4.4	-62	0.307
04-	35.8167-	109.3086-2-	15-			0-N09549	12250	507	3780	56	-1	7.2	3.8	-183	-1	1	7.4	3241	50	3.2	129	0.328
04-	35.8311-	109.2825-2-	15-			0-N09550	13450	518	3887	61	-1	5.6	4.9	-213	-1	-1	10.0	3497	47	3.2	37	0.251
04-	35.8297-	109.2789-2-	15-			0-N09551	6377	517	5721	57	-1	5.8	5.8	-199	-1	-1	10.7	3714	45	4.3	62	0.288
04-	35.8483-	109.2725-2-	15-			0-N09552	7751	437	6124	50	-1	4.7	4.4	-180	-1	-1	9.3	3826	45	4.1	40	0.320
04-	35.8919-	109.4222-2-	15-			0-N09554	21410	498	3686	73	-1	9.5	6.6	-192	-1	-1	12.6	3853	65	3.2	88	0.243
04-	35.8892-	109.4242-2-	15-			0-N09555	18420	490	3992	55	-1	8.2	6.3	-212	-1	-1	13.0	4072	64	3.7		0.242
04-	35.8203-	109.4869-2-	15-			0-N09556	6104	278	5501	52	-1	3.3	4.1	-149	-1	-1	9.6	3357	48	2.9	30	0.257
04-	35.8081-	109.4717-2-	15-			0-N09557	7522	196	6008	43	-1	2.7	2.3	-129	-1		4.6	1972	29	2.1	-13	0.330
04-	35.7897-	109.4728-2-	15-			0-N09558	16750	511	6120	59	-1	6.1	6.1	-195	-1	-1	12.6	3861	53	4.4	103	0.325
04-	35.7600-	109.4861-2-	15-			0-N09559	17370	640	5466	-21	-1	6.4	6.0	-246	-1	-1	14.0	5173	76	5.4	48	0.365
04-	35.7372-	109.4686-2-	12-			0-N09560	6932	719	3803	64	-2	7.6	7.6	-222	2	-1	18.5	9515	131	8.5	70	0.385
04-	35.7367-	109.4706-2-	15-			0-N09561	4340	308	6920	44	-1	4.5	3.6	-156	-1		8.6	4428	58	3.4	31	0.347
04-	35.7544-	109.4306-2-	15-			0-N09563	11100	407	4976	55	-1	7.1	4.6	-180	-1	-1	9.2	3508	56	3.7	-23	0.300
04-	35.7492-	109.4125-2-	15-			0-N09564	5696	384	7275	44	-1	4.1	4.1	-190	-1	-1	9.2	4610	60	3.6	37	0.359
04-	35.7172-	109.4656-2-	15-			0-N09565	8317	470	8487	64	-1	5.0	3.9	-193	-1	-1	8.4	4269	55	3.3	-17	0.315
04-	35.7097-	109.4956-2-	15-			0-N09566	9988	390	8591	57	-1	4.4	4.0	-172	-1		8.6	3948	55	3.0	34	0.328
04-	35.6994-	109.4750-2-	15-			0-N09567	6320	448	6910	47	-1	5.5	5.4	-179	-1	-1	10.5	4196	63	4.3	-18	0.338
04-	35.6917-	109.4453-2-	15-			0-N09568	4758	342	5638	-15	-1	3.7	4.4	-173	-1	-1	8.0	4076	61	3.5	-30	0.356
04-	35.6883-	109.4361-2-	15-			0-N09569	11200	399	7162	70	-1	6.5	5.1	-185	-1	-1	11.1	4492	59	3.9	77	0.274
04-	35.6808-	109.4194-2-	15-			0-N09570	9850	403	7159	41	-1	5.3	4.0	-183	-1	-1	8.5	4123	49	3.2	30	0.299

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
04	35.6717	109.4111	2	15	0	N09571	10/01/78	13	22		C				8	1	6	4	6		1		2	3	3	3	2	9					1.90
04-35.6286-109.4008-2-15-						0-N09572-10/01/78-14-			23-		-C-	-	-	-	6-1-6-4-6-					-1-		-2-3-3-3-2-				-9-	-	-	-	-	2.00
04-35.6294-109.4625-2-15-						0-N09573-10/01/78-14-			23-		-C-	-	-	-	8-1-6-4-6-					-1-		-2-3-3-3-2-				-9-	-	-	-	-	2.04
04-35.6286-109.4844-2-15-						0-N09574-10/01/78-15-			23-		-C-	-	-	-	10-1-6-4-6-					-1-		-2-3-3-3-2-				-9-	-	-	-	-	2.05
04-35.6378-109.4989-2-15-						0-N09575-10/01/78-15-			23-		-C-	-	-	-	10-1-6-4-6-					-1-		-2-3-3-3-2-				-9-	-	-	-	-	2.12
04-35.7022-109.3739-2-15-						0-N09576-10/01/78-16-			23-		-C-	-	-	-	6-1-6-4-6-					-1-		-2-1-3-3-2-				-9-	-	-	-	-	2.90
04-35.6850-109.3614-2-15-						0-N09578-10/01/78-16-			23-		-C-	-	-	-	11-1-6-4-6-					-1-		-2-1-3-4-2-				-9-	-	-	-	-	2.11
04-35.6878-109.3331-2-15-						0-N09579-10/01/78-16-			23-		-C-	-	-	-	10-1-6-4-6-					-1-		-2-1-3-4-2-				-9-	-	-	-	-	2.58
04-35.6692-109.2717-2-15-						0-N09580-10/01/78-17-			23-		-C-	-	-	-	8-1-6-4-6-					-1-		-2-1-3-3-2-				-9-	-	-	-	-	2.15
04-35.6583-109.2958-2-15-						0-N09582-10/01/78-17-			23-		-C-	-	-	-	8-1-6-4-6-					-1-		-2-1-3-3-2-				-9-	-	-	-	-	2.34
04-35.6453-109.3328-2-15-						0-N09583-10/01/78-18-			22-		-C-	-	-	-	7-1-6-4-6-					-1-		-2-1-3-3-2-				-9-	-	-	-	-	3.03
04-35.6261-109.3569-2-15-						0-N09584-10/01/78-18-			23-		-C-	-	-	-	6-1-6-4-6-					-1-		-2-3-3-3-2-				-9-	-	-	-	-	2.77
04-35.6264-109.3719-2-15-						0-N09585-10/01/78-18-			23-		-C-	-	-	-	9-1-6-4-6-					-1-		-2-3-3-3-2-				-9-	-	-	-	-	1.92
04-35.6356-109.3294-2-15-						0-N09586-10/01/78-19-			22-		-C-	-	-	-	8-1-6-4-6-					-1-		-2-3-3-3-2-				-9-	-	-	-	-	1.91
04-35.7403-109.3328-2-15-						0-N09588-10/02/78-10-			20-		-C-	-	-	-	9-1-6-4-6-					-1-		-2-1-3-4-2-				-9-	-	-	-	-	2.19
04-35.7342-109.3167-2-15-						0-N09589-10/02/78-10-			20-		-C-	-	-	-	8-1-6-4-6-					-1-		-2-1-3-3-1-				-9-	-	-	-	-	3.31
04-35.7150-109.3119-2-15-						0-N09590-10/02/78-10-			20-		-C-	-	-	-	9-1-6-4-6-					-1-		-2-1-3-3-1-				-9-	-	-	-	-	2.74
04-35.7136-109.3014-2-15-						0-N09591-10/02/78-11-			21-		-C-	-	-	-	14-1-6-4-6-					-1-		-2-1-3-3-1-				-9-	-	-	-	-	3.19
04-35.7097-109.2981-2-15-						0-N09592-10/02/78-11-			21-		-C-	-	-	-	8-1-6-4-6-					-1-		-2-1-3-4-1-				-9-	-	-	-	-	3.34
04-35.7114-109.2825-2-15-						0-N09593-10/02/78-11-			21-		-C-	-	-	-	6-1-6-4-6-					-1-		-2-1-3-4-1-				-9-	-	-	-	-	5.15
04-35.7319-109.2050-2-15-						0-N09594-10/02/78-12-			22-		-C-	-	-	-	5-1-6-4-6-					-1-		-2-1-3-4-1-				-9-	-	-	-	-	1.90
04-35.7061-109.2286-2-15-						0-N09596-10/02/78-12-			22-		-C-	-	-	-	8-1-6-4-6-					-1-		-2-1-3-4-1-				-9-	-	-	-	-	6.01
04-35.7017-109.2319-2-15-						0-N09597-10/02/78-12-			22-		-C-	-	-	-	4-1-6-4-6-					-1-		-2-1-3-4-1-				-9-	-	-	-	-	4.98
04-35.7175-109.2486-2-15-						0-N09598-10/02/78-13-			23-		-C-	-	-	-	7-1-6-4-6-					-1-		-2-1-3-4-1-				-9-	-	-	-	-	3.12
04-35.6717-109.2481-2-15-						0-N09599-10/02/78-14-			24-		-C-	-	-	-	6-1-6-4-6-					-1-		-2-1-3-4-1-				-9-	-	-	-	-	2.12
04-35.8486-108.3975-2-15-						0-N09600-10/04/78-13-			26-		-	-	-	-	17-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	2.95
04-35.8308-108.4497-2-15-						0-N09602-10/04/78-13-			27-		-	-	-	-	14-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.44
04-35.8464-108.4728-2-15-						0-N09603-10/04/78-14-			26-		-	-	-	-	14-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.37
04-35.8722-108.4817-2-15-						0-N09604-10/04/78-14-			26-		-	-	-	-	17-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.43
04-35.8825-108.4692-2-15-						0-N09605-10/04/78-14-			27-		-	-	-	-	14-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.01
04-35.8883-108.4797-2-15-						0-N09606-10/04/78-15-			27-		-	-	-	-	18-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.66
04-35.8872-108.4478-2-15-						0-N09607-10/04/78-15-			27-		-	-	-	-	21-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.30
04-35.8914-108.4867-2-15-						0-N09608-10/04/78-15-			27-		-	-	-	-	14-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.52
04-35.8925-108.4989-2-15-						0-N09609-10/04/78-15-			27-		-	-	-	-	17-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.63
04-35.8786-108.4097-2-15-						0-N09610-10/04/78-16-			26-		-	-	-	-	12-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.16
04-35.8950-108.3997-2-15-						0-N09611-10/04/78-16-			26-		-	-	-	-	14-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.42
04-35.9008-108.3919-2-15-						0-N09612-10/04/78-16-			25-		-	-	-	-	12-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.41
04-35.9172-108.4075-2-15-						0-N09613-10/04/78-16-			26-		-	-	-	-	18-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	2.40
04-35.9314-108.4103-2-15-						0-N09614-10/04/78-16-			25-		-	-	-	-	12-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.03
04-35.9350-108.4447-2-15-						0-N09616-10/04/78-17-			25-		-	-	-	-	10-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.87
04-35.9339-108.4619-2-15-						0-N09617-10/04/78-17-			25-		-	-	-	-	14-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.86
04-35.9567-108.4572-2-15-						0-N09618-10/05/78-	8		21-		-	-	-	-	14-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.16
04-35.9542-108.4736-2-15-						0-N09619-10/05/78-	8		21-		-	-	-	-	12-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.39
04-35.9878-108.4808-2-15-						0-N09620-10/05/78-	8		21-		-	-	-	-	14-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.46
04-35.9717-108.4817-2-15-						0-N09621-10/05/78-	9		22-		-	-	-	-	13-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.34
04-35.9697-108.4817-2-15-						0-N09622-10/05/78-	9		22-		-	-	-	-	14-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	2.41
04-35.9594-108.4906-2-15-						0-N09623-10/05/78-	9		23-		-	-	-	-	12-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.81
04-35.9550-108.3722-2-15-						0-N09625-10/05/78-10-			23-		-	-	-	-	10-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.90
04-35.9767-108.3697-2-15-						0-N09626-10/05/78-10-			24-		-	-	-	-	10-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.44
04-35.9944-108.3531-2-15-						0-N09627-10/05/78-10-			24-		-	-	-	-	14-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.59
04-35.9939-108.4442-2-15-						0-N09629-10/05/78-11-			24-		-	-	-	-	10-1-6-4-6-					-1-		-2-3-3-1-1-				-1-	-	-	-	-	3.53

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

(2)

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
04-	35.6717-	109.4111-2-	15-			0-N09571	-5	-5	-5	16	-20	-15	-5	-10	-15	1	14
04-	35.6286-	109.4008-2-	15-			0-N09572	-5	-5	-5	24	-20	-15	11	-10	-15	1	14
04-	35.6294-	109.4625-2-	15-			0-N09573	-5	-5	-5	23	-20	-15	6	-10	-15	1	9
04-	35.6286-	109.4844-2-	15-			0-N09574	-5	-5	-5	19	-20	-15	8	-10	-15	1	14
04-	35.6378-	109.4989-2-	15-			0-N09575	-5	-5	-5	10	-20	-15	-5	-10	-15	-1	18
04-	35.7022-	109.3739-2-	15-			0-N09576	-5	-5	-5	16	-20	-15	7	-10	-15	1	23
04-	35.6850-	109.3614-2-	15-			0-N09578	-5	8	-5	27	-20	-15	14	-10	-15	2	29
04-	35.6878-	109.3331-2-	15-			0-N09579	-5	7	-5	20	-20	-15	11	-10	-15	1	32
04-	35.6692-	109.2717-2-	15-			0-N09580	-5	-5	-5	13	-20	-15	9	-10	-15	1	14
04-	35.6583-	109.2958-2-	15-			0-N09582	-5	-5	-5	18	-20	-15	-5	-10	-15	1	35
04-	35.6453-	109.3328-2-	15-			0-N09583	-5	-5	-5	18	-20	-15	-5	-10	-15	1	33
04-	35.6261-	109.3569-2-	15-			0-N09584	-5	-5	-5	26	-20	-15	5	-10	-15	1	22
04-	35.6264-	109.3719-2-	15-			0-N09585	-5	-5	-5	16	-20	-15	-5	-10	-15	-1	8
04-	35.6356-	109.3294-2-	15-			0-N09586	-5	5	-5	16	-20	-15	9	-10	-15	1	20
04-	35.7403-	109.3328-2-	15-			0-N09588	-5	-5	-5	24	-20	-15	-5	-10	-15	1	20
04-	35.7342-	109.3167-2-	15-			0-N09589	-5	5	-5	14	-20	-15	14	-10	-15	2	24
04-	35.7150-	109.3119-2-	15-			0-N09590	-5	-5	-5	19	-20	-15	-5	-10	-15	-1	7
04-	35.7136-	109.3014-2-	15-			0-N09591	-5	8	-5	25	-20	-15	9	-10	-15	2	31
04-	35.7097-	109.2981-2-	15-			0-N09592	-5	8	-5	-10	-20	-15	7	-10	-15	1	18
04-	35.7114-	109.2825-2-	15-			0-N09593	-5	6	-5	11	-20	-15	9	-10	-15	1	16
04-	35.7319-	109.2050-2-	15-			0-N09594	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	5
04-	35.7061-	109.2286-2-	15-			0-N09596	-5	6	-5	26	-20	-15	15	-10	-15	2	22
04-	35.7017-	109.2319-2-	15-			0-N09597	-5	6	-5	17	-20	-15	17	-10	-15	2	26
04-	35.7175-	109.2486-2-	15-			0-N09598	-5	-5	-5	27	-20	-15	7	-10	-15	2	34
04-	35.6717-	109.2481-2-	15-			0-N09599	-5	-5	-5	-10	-20	-15	-5	-10	-15	-1	3
04-	35.8486-	108.3975-2-	15-			0-N09600	-5	5	-5	23	-20	20	14	-10	-15	1	32
04-	35.8308-	108.4497-2-	15-			0-N09602	-5	8	-5	23	-20	-15	13	-10	-15	1	27
04-	35.8464-	108.4728-2-	15-			0-N09603	-5	9	-5	23	-20	-15	17	-10	-15	2	39
04-	35.8722-	108.4817-2-	15-			0-N09604	-5	-5	-5	18	-20	20	6	-10	-15	2	36
04-	35.8825-	108.4692-2-	15-			0-N09605	-5	-5	-5	27	-20	-15	8	-10	25	2	32
04-	35.8883-	108.4797-2-	15-			0-N09606	-5	-5	-5	21	-20	-15	16	-10	17	2	37
04-	35.8872-	108.4478-2-	15-			0-N09607	-5	-5	-5	27	-20	17	14	-10	-15	2	39
04-	35.8914-	108.4867-2-	15-			0-N09608	-5	6	-5	18	-20	-15	15	-10	-15	2	37
04-	35.8925-	108.4989-2-	15-			0-N09609	-5	-5	-5	23	-20	-15	12	-10	-15	2	46
04-	35.8786-	108.4097-2-	15-			0-N09610	-5	6	-5	17	-20	-15	13	-10	-15	1	32
04-	35.8950-	108.3997-2-	15-			0-N09611	-5	-5	-5	27	-20	19	8	-10	-15	2	37
04-	35.9008-	108.3919-2-	15-			0-N09612	-5	6	-5	31	-20	19	12	-10	-15	2	37
04-	35.9172-	108.4075-2-	15-			0-N09613	-5	-5	-5	17	-20	-15	7	-10	-15	1	21
04-	35.9314-	108.4103-2-	15-			0-N09614	-5	10	-5	17	-20	-15	8	-10	-15	2	23
04-	35.9350-	108.4447-2-	15-			0-N09616	-5	8	-5	17	-20	-15	5	-10	-15	2	26
04-	35.9339-	108.4619-2-	15-			0-N09617	-5	7	-5	-10	-20	-15	-5	-10	-15	1	26
04-	35.9567-	108.4572-2-	15-			0-N09618	-5	-5	-5	25	-20	-15	8	-10	-15	1	26
04-	35.9542-	108.4736-2-	15-			0-N09619	-5	-5	-5	29	-20	-15	7	-10	-15	2	43
04-	35.9878-	108.4808-2-	15-			0-N09620	-5	-5	-5	21	-20	-15	11	-10	-15	2	38
04-	35.9717-	108.4817-2-	15-			0-N09621	-5	8	-5	19	-20	-15	-5	-10	-15	1	25
04-	35.9697-	108.4817-2-	15-			0-N09622	-5	6	-5	16	-20	-15	12	-10	-15	1	26
04-	35.9594-	108.4906-2-	15-			0-N09623	-5	5	-5	20	-20	16	8	-10	-15	1	26
04-	35.9550-	108.3722-2-	15-			0-N09625	-5	6	-5	16	-20	-15	10	-10	-15	1	24
04-	35.9767-	108.3697-2-	15-			0-N09626	-5	-5	-5	21	-20	-15	-5	-10	-15	1	25
04-	35.9944-	108.3531-2-	15-			0-N09627	-5	7	-5	30	-20	-15	11	-10	-15	1	19
04-	35.9939-	108.4442-2-	15-			0-N09629	-5	-5	-5	11	-20	-15	11	-10	-15	1	19

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
04-	35.6717-	109.4111-2-15-				0-N09571	32100	-0.03	394	3530	38	-52	3.2	29	1.5	3	0.7	9247	11.8	16120	15	0.3
04-	35.6286-	109.4008-2-15-				0-N09572	34750	-0.04	454	5111	37	-50	2.4	30	-0.8	3	0.7	9495	16.2	15770	13	0.3
04-	35.629%-	109.4625-2-15-				0-N09573	29640	-0.04	330	3665	37	-39	3.3	39	2.5	3	0.9	11280	23.6	10320	9	0.4
04-	35.6286-	109.%844-2-15-				0-N09574	30800	-0.03	367	3206	37	-49	2.9	24	-0.7	3	0.8	8319	14.8	13390	15	0.4
04-	35.6378-	109.4989-2-15-				0-N09575	38700	-0.04	434	4072	42	-55	4.7	29	2.5	3	0.9	12270	8.6	12420	20	0.3
04-	35.7022-	109.3739-2-15-				0-N09576	44730	-0.05	572	5156	71	-54	4.6	36	2.3	4	1.1	18580	24.2	13670	30	0.5
04-	35.6850-	109.3614-2-15-				0-N09578	54600	-0.06	635	8387	54	-61	6.7	40	3.7	4	1.2	19950	9.6	17470	25	0.3
04-	35.6878-	109.3331-2-15-				0-N09579	52050	-0.05	582	9854	68	-70	7.2	41	4.5	5	1.2	20730	15.4	16820	26	0.4
04-	35.6692-	109.2717-2-15-				0-N09580	31870	-0.04	439	3337	46	-51	3.6	32	1.6	4	1.0	12650	19.8	13780	20	0.4
04-	35.6583-	109.2958-2-15-				0-N09582	39430	-0.05	533	6193	51	-53	3.6	31	2.2	4	0.9	13720	16.7	17720	24	0.4
04-	35.6453-	109.3328-2-15-				0-N09583	36570	-0.05	499	4186	56	-50	4.6	43	2.4	4	1.2	16430	29.3	15060	25	0.5
04-	35.6261-	109.3569-2-15-				0-N09584	46410	-0.05	549	5605	66	-71	6.4	44	2.8	5	1.1	16880	18.0	15230	28	0.4
04-	35.6264-	109.3719-2-15-				0-N09585	25110	-0.03	295	2709	33	-44	2.4	35	1.8	3	0.8	8348	18.0	11830	14	0.4
04-	35.6356-	109.3294-2-15-				0-N09586	39160	-0.04	488	4048	47	-53	3.3	24	2.0	3	0.9	12010	13.0	18400	16	0.3
04-	35.7403-	109.3328-2-15-				0-N09588	40070	-0.05	563	4262	49	-53	5.8	36	2.5	4	1.1	15840	15.3	17070	21	0.4
04-	35.7342-	109.3167-2-15-				0-N09589	52050	-0.05	741	9434	64	-69	5.9	27	3.7	5	1.2	13950	15.8	22350	25	0.5
04-	35.7150-	109.3119-2-15-				0-N09590	21870	-0.04	262	1748	23	-39	2.1	74	1.0	4	1.1	7919	46.9	11220	12	0.5
04-	35.7136-	109.3014-2-15-				0-N09591	43050	-0.05	537	5212	71	-60	5.6	44	2.6	5	1.2	18670	23.9	15880	32	0.5
04-	35.7097-	109.2981-2-15-				0-N09592	36230	-0.06	547	4018	68	-52	5.5	43	2.9	4	1.3	27660	43.2	17520	38	0.6
04-	35.7114-	109.2825-2-15-				0-N09593	47160	-0.06	2974	15610	96	-47	6.2	45	3.9	9	1.5	25270	47.3	12830	42	1.0
04-	35.7319-	109.2050-2-15-				0-N09594	14990	-0.03	153	-282	21	23	1.9	42	1.0	3	0.7	5775	28.6	6551	13	0.3
04-	35.7061-	109.2286-2-15-				0-N09596	53470	-0.07	3691	6645	98	-47	7.8	48	4.6	10	2.8	29730	49.5	12970	38	1.0
04-	35.7017-	109.2319-2-15-				0-N09597	62670	-0.07	2403	12980	95	-50	8.0	45	4.3	10	1.7	29280	39.7	12780	51	1.0
04-	35.7175-	109.2486-2-15-				0-N09598	57740	-0.06	607	7735	85	-59	8.4	45	3.8	6	1.6	20160	13.8	15210	37	0.5
04-	35.6717-	109.2481-2-15-				0-N09599	12670	-0.02	155	-236	22	-25	1.9	58	-0.8	3	1.0	5944	41.8	5963	10	0.4
04-	35.8486-	108.3975-2-15-				0-N09600	54900	-0.06	589	16080	79	-61	8.1	39	5.3	5	1.5	24000	9.0	20920	40	0.5
04-	35.8308-	108.4497-2-15-				0-N09602	55610	-0.06	784	10480	63	416	7.3	39	4.3	5	1.3	19890	16.4	19860	32	0.5
04-	35.8464-	108.4728-2-15-				0-N09603	72980	-0.07	592	11740	72	533	8.6	36	4.5	5	1.3	21960	8.2	18950	30	0.3
04-	35.8722-	108.4817-2-15-				0-N09604	56030	-0.06	756	6594	68	-64	6.4	35	3.5	5	1.2	17780	15.2	21210	32	0.5
04-	35.8825-	108.4692-2-15-				0-N09605	55330	-0.06	557	15600	84	-60	8.1	47	5.5	5	1.6	25280	11.0	20930	38	0.5
04-	35.8883-	108.4797-2-15-				0-N09606	74250	-0.06	679	8182	78	-75	8.7	45	5.0	5	1.4	23950	9.7	19320	32	0.5
04-	35.8872-	108.4478-2-15-				0-N09607	75070	-0.07	623	11920	74	557	8.9	45	5.8	5	1.3	22880	7.9	19790	30	0.4
04-	35.8914-	108.4867-2-15-				0-N09608	68570	-0.07	815	7509	69	-65	8.7	43	5.9	5	1.5	25320	14.5	20650	34	0.5
04-	35.8925-	108.4989-2-15-				0-N09609	74030	-0.06	687	7252	77	-75	10.2	43	6.7	5	1.6	27650	10.8	21640	37	0.5
04-	35.8786-	108.4097-2-15-				0-N09610	56730	-0.05	667	7556	63	-76	6.2	32	3.6	5	1.3	17180	14.3	22740	28	0.5
04-	35.8950-	108.3997-2-15-				0-N09611	51510	-0.06	737	8931	60	-71	6.2	32	3.9	5	1.1	18470	13.6	23330	31	0.4
04-	35.9008-	108.3919-2-15-				0-N09612	61830	-0.06	765	8101	57	-68	7.7	37	3.9	5	1.4	19960	13.9	20580	31	0.4
04-	35.9172-	108.4075-2-15-				0-N09613	46770	-0.05	533	13120	66	-53	6.6	28	4.7	4	1.2	18700	8.8	16980	29	0.4
04-	35.9314-	108.4103-2-15-				0-N09614	56150	-0.05	726	11250	70	-82	7.1	26	4.2	5	1.5	16290	8.6	24980	32	0.3
04-	35.9350-	108.4447-2-15-				0-N09616	53420	-0.05	783	5968	71	-68	4.7	25	3.2	5	1.3	13400	21.9	20450	30	0.5
04-	35.9339-	108.4619-2-15-				0-N09617	56830	-0.05	845	6148	73	-65	5.7	28	4.5	5	1.4	15440	23.6	23340	31	0.6
04-	35.9567-	108.4572-2-15-				0-N09618	56920	-0.05	717	7648	74	-77	6.9	47	3.9	5	1.4	19390	15.4	22940	33	0.6
04-	35.9542-	108.4736-2-15-				0-N09619	72550	-0.06	550	8505	70	-74	8.6	37	5.3	5	1.2	23500	7.8	19900	29	0.5
04-	35.9878-	108.4808-2-15-				0-N09620	72510	-0.07	718	7513	72	-70	8.3	37	5.1	5	1.3	22580	9.1	21500	35	0.4
04-	35.9717-	108.4817-2-15-				0-N09621	52120	-0.05	769	8403	64	-61	5.7	31	3.3	5	1.2	15110	18.3	21260	30	0.4
04-	35.9697-	108.4817-2-15-				0-N09622	46330	-0.05	540	13190	66	-54	6.1	31	4.5	4	1.1	18180	8.0	16480	28	0.4
04-	35.9594-	108.4906-2-15-				0-N09623	58370	-0.05	699	10880	73	-74	6.5	32	3.9	6	1.3	19080	21.8	19960	29	0.6
04-	35.9550-	108.3722-2-15-				0-N09625	57460	-0.06	796	10700	67	-72	5.1	29	3.1	5	1.2	16070	19.1	18710	32	0.5
04-	35.9767-	108.3697-2-15-				0-N09626	51500	-0.05	735	5671	61	-68	5.3	28	2.7	4	0.9	15290	22.5	21160	30	0.5
04-	35.9944-	108.3531-2-15-				0-N09627	58340	-0.05	827	9171	70	-79	6.8	32	5.1	5	1.4	19740	20.8	22130	33	0.5
04-	35.9939-	108.4442-2-15-				0-N09629	50380	-0.05	799	5917	63	-76	5.5	27	2.5	5	1.2	13930	23.7	20990	30	0.6

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

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
04-	35.6717-	109.4111-	2-	15-	0-	N09571	4499	224	6364	50	-1	2.3	3.1	-136			6.1	2517	26	2.4	41	0.311
04-	35.6286-	109.4008-	2-	15-	0-	N09572	5582	190	7232	49	-1	2.9	2.5	-148			5.3	2101	30	2.6	-31	0.377
04-	35.6294-	109.4625-	2-	15-	0-	N09573	5082	212	4232	-14	-1	3.7	2.9	-132	-1		5.4	2692	30	2.4	56	0.378
04-	35.6286-	109.4844-	2-	15-	0-	N09574	5069	214	5725	41	-1	2.8	2.7	-131			5.2	2753	27	2.5	24	0.394
04-	35.6378-	109.4989-	2-	15-	0-	N09575	6037	283	6028	61	-1	4.5	3.2	-154	-1	-1	6.5	2475	38	3.0	64	0.326
04-	35.7022-	109.3739-	2-	15-	0-	N09576	5971	438	6535	39	-1	5.2	4.3	-197	-1	-1	9.8	4015	57	3.4	-18	0.296
04-	35.6850-	109.3614-	2-	15-	0-	N09578	11230	465	7993	58	-1	6.7	4.7	-212	-1	-1	8.2	3037	47	3.2	55	0.257
04-	35.6878-	109.3331-	2-	15-	0-	N09579	15670	569	7404	64	-1	6.5	4.9	-219	-1	-1	9.8	4242	54	4.2	71	0.263
04-	35.6692-	109.2717-	2-	15-	0-	N09580	4344	250	5776	44	-1	3.5	3.3	-135			7.0	2790	34	2.9	34	0.307
04-	35.6583-	109.2958-	2-	15-	0-	N09582	8740	341	7083	50	-1	3.8	4.0	-183	-1	-1	7.6	3016	37	3.1	54	0.308
04-	35.6453-	109.3328-	2-	15-	0-	N09583	5773	308	7064	-17	-1	4.5	4.6	-163	-1	-1	9.9	4037	43	4.2	-36	0.306
04-	35.6261-	109.3569-	2-	15-	0-	N09584	9112	586	7290	49	-1	5.5	4.4	-217	-1	-1	8.3	3655	46	3.4	47	0.334
04-	35.6264-	109.3719-	2-	15-	0-	N09585	4690	180	4015	36	-1	3.1	2.6	-116			5.0	2336	21	2.1	44	0.384
04-	35.6356-	109.3294-	2-	15-	0-	N09586	5979	235	7771	41	-1	3.6	3.6	-161	-1		7.2	2699	35	2.6	-30	0.265
04-	35.7403-	109.3328-	2-	15-	0-	N09588	7536	413	6910	59	-1	4.7	4.2	-187	-1	-1	8.0	3175	39	3.0	61	0.274
04-	35.7342-	109.3167-	2-	15-	0-	N09589	7009	286	10700	70	-1	5.2	4.7	-169	-1	-1	11.2	3577	47	3.5	54	0.296
04-	35.7150-	109.3119-	2-	15-	0-	N09590	3033	150	3225	30	-1	3.1	2.7	-106			5.0	2322	20	3.7	-16	0.548
04-	35.7136-	109.3014-	2-	15-	0-	N09591	9768	493	8202	51	-1	5.0	5.4	-216	-1	1	10.1	4461	45	3.8	51	0.316
04-	35.7097-	109.2981-	2-	15-	0-	N09592	5955	443	6193	-19	-1	4.9	5.0	-191	-1	-1	13.1	5717	76	4.9		0.255
04-	35.7114-	109.2825-	2-	15-	0-	N09593	4445	493	2427	39	-1	6.8	7.1	301	-1	1	12.8	5568	58	8.1	44	0.402
04-	35.7319-	109.2050-	2-	15-	0-	N09594	-1143	149	1875	23	-1	2.3	1.8	-97	-1		4.0	1365	16	2.5	23	0.475
04-	35.7061-	109.2286-	2-	15-	0-	N09596	6557	449	3814	43	-1	7.3	9.2	-193	1	-1	15.5	5284	75	8.2	86	0.388
04-	35.7017-	109.2319-	2-	15-	0-	N09597	7019	521	3609	57	-2	8.4	8.4	-215	-1	-1	15.4	5498	72	8.3	48	0.323
04-	35.7175-	109.2486-	2-	15-	0-	N09598	11220	538	5852	53	-1	7.4	7.0	-225	-1	1	11.7	3859	54	4.4	92	0.267
04-	35.6717-	109.2481-	2-	15-	0-	N09599	2608	113	1819	22		2.7	2.2	-99	-1		4.3	1618	12	3.5	19	0.493
04-	35.8486-	108.3975-	2-	15-	0-	N09600	15440	302	6174	108	-1	9.1	5.7	-170	-1	-1	12.1	3508	64	4.0	101	0.244
04-	35.8308-	108.4497-	2-	15-	0-	N09602	10000	393	10580	78	-1	6.9	5.7	-196	-1	-1	12.1	3405	54	4.0	-32	0.284
04-	35.8464-	108.4728-	2-	15-	0-	N09603	13260	363	7972	58	2	8.8	5.7	-215	-1	-1	10.6	3890	76	3.1	-77	0.318
04-	35.8722-	108.4817-	2-	15-	0-	N09604	9232	299	11470	67	-1	6.5	4.6	-185	-1	-1	10.4	4381	55	3.4	86	0.330
04-	35.8825-	108.4692-	2-	15-	0-	N09605	13210	306	6223	90	-1	8.3	6.1	-174	-1	-1	12.2	3551	58	4.0	-67	0.247
04-	35.8883-	108.4797-	2-	15-	0-	N09606	10050	358	9552	76	-2	9.8	6.5	-193	-1	-1	12.8	4177	80	3.6	105	0.286
04-	35.8872-	108.4478-	2-	15-	0-	N09607	12580	371	8183	74	-2	9.1	5.3	-218	-1	-1	12.6	3776	75	3.0	97	0.262
04-	35.8914-	108.4867-	2-	15-	0-	N09609	11910	356	10300	66	-2	9.2	5.4	-197	-1	-1	13.3	4548	76	3.7	80	0.265
04-	35.8925-	108.4989-	2-	15-	0-	N09609	12590	358	9337	74	-2	10.6	6.1	-197	-1	-1	14.5	4964	77	5.6	115	0.250
04-	35.8786-	108.4097-	2-	15-	0-	N09610	9160	350	11670	68	-1	6.4	4.8	-186	-1	-1	10.6	3626	56	4.3	-66	0.298
04-	35.8950-	108.3997-	2-	15-	0-	N09611	8533	351	11790	67	-1	6.7	4.7	-215	-1	-1	11.1	4215	64	3.7	53	0.308
04-	35.9008-	108.3919-	2-	15-	0-	N09612	7347	356	11760	53	-1	7.5	5.2	-200	-1	-1	12.2	4372	62	3.7	68	0.280
04-	35.9172-	108.4075-	2-	15-	0-	N09613	14020	222	5221	87	-1	5.5	5.2	-147	-1	-1	9.8	2944	48	3.7	60	0.245
04-	35.9314-	108.4103-	2-	15-	0-	N09614	10270	391	13090	82	-1	6.1	5.7	-202	-1	-1	12.3	2729	46	3.2	99	0.246
04-	35.9350-	108.4447-	2-	15-	0-	N09616	8179	301	12370	57	-1	5.2	4.6	-193	-1	-1	12.9	3582	45	3.8	-58	0.300
04-	35.9339-	108.4619-	2-	15-	0-	N09617	7150	293	12440	67	-1	5.8	5.3	-187	-1	-1	13.2	3800	48	5.3	93	0.292
04-	35.9567-	108.4572-	2-	15-	0-	N09618	8177	358	11540	70	-1	7.0	4.9	-194	-1	-1	11.4	3786	54	4.5	77	0.277
04-	35.9542-	108.4736-	2-	15-	0-	N09619	10400	328	9705	67	-1	8.9	5.2	-188	-1	-1	10.9	4308	77	2.9	101	0.311
04-	35.9878-	108.4808-	2-	15-	0-	N09620	9201	333	9702	45	-2	8.6	5.0	-215	-1	-1	10.3	4005	80	3.0	82	0.336
04-	35.9717-	108.4817-	2-	15-	0-	N09621	7259	280	11130	72	-1	6.0	4.3	-174	-1	-1	10.1	3862	46	2.8	-71	0.331
04-	35.9697-	108.4817-	2-	15-	0-	N09622	15930	223	5083	67	-1	6.4	4.7	-148	-1	-1	9.8	2791	47	2.9	57	0.246
04-	35.9594-	108.4906-	2-	15-	0-	N09623	8890	330	11490	66	-1	6.6	6.0	-177	-1	-1	13.0	3668	55	3.8	83	0.293
04-	35.9550-	108.3722-	2-	15-	0-	N09625	7049	377	12920	49	-1	5.9	4.6	-216	-1	-1	11.4	3891	57	3.5	-52	0.342
04-	35.9767-	108.3697-	2-	15-	0-	N09626	6654	308	13770	70	-1	5.3	4.1	-192	-1	-1	10.7	3615	39	3.7	30	0.321
04-	35.9944-	108.3531-	2-	15-	0-	N09627	10070	366	12980	89	-1	6.9	4.7	-193	-1	-1	12.0	3595	55	4.4	88	0.299
04-	35.9939-	108.4442-	2-	15-	0-	N09629	5810	302	13200	74	-1	5.3	5.6	-173	-1	-1	12.7	3391	40	3.8	-19	0.278

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
04-35.9689-108.3222-2-15-						0-N09630-10/05/78-11-			24-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00
04-35.9828-108.3211-2-15-						0-N09631-10/05/78-11-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.82
04-35.9303-108.3667-2-15-						0-N09632-10/05/78-11-			25-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.53
04-35.9047-108.3525-2-15-						0-N09633-10/05/78-11-			25-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.54
04-35.9672-108.2764-2-15-						0-N09634-10/05/78-12-			26-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.60
04-35.9867-108.2722-2-15-						0-N09636-10/05/78-12-			27-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.43
04-35.9989-108.2822-2-15-						0-N09637-10/05/78-12-			27-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.46
04-35.9319-108.3057-2-15-						0-N09638-10/05/78-13-			27-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.08
04-35.9178-108.3122-2-15-						0-N09639-10/05/78-13-			27-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.46
04-35.9117-108.2908-2-15-						0-N09640-10/05/78-13-			27-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
04-35.9106-108.2956-2-15-						0-N09641-10/05/78-13-			28-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.61
04-35.9069-108.2928-2-15-						0-N09642-10/05/78-14-			28-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.66
04-35.8706-108.3042-2-15-						0-N09644-10/05/78-14-			28-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.31
04-35.8092-108.3497-2-15-						0-N09645-10/05/78-14-			28-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.48
04-35.7711-108.3597-2-15-						0-N09646-10/05/78-15-			27-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.86
04-35.7669-108.3536-2-15-						0-N09647-10/05/78-15-			27-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.54
04-35.7686-108.3511-2-15-						0-N09648-10/05/78-15-			27-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.73
04-35.7064-108.2819-2-99-						0-N09649-10/05/78-15-			27-		-C-	-	-	-	-	9-1-6-4-6-	-1-	- -3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.71
04-35.7036-108.2894-2-15-						0-N09651-10/05/78-16-			26-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.04
04-35.6733-108.3081-2-15-						0-N09652-10/05/78-16-			26-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.71
04-35.7178-108.2933-2-15-						0-N09653-10/05/78-16-			26-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.33
04-35.7253-108.3072-2-15-						0-N09655-10/05/78-17-			26-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.05
04-35.7122-108.3400-2-99-						0-N09656-10/06/78-	8-	20-			-C-	-	-	-	-	9-1-6-4-6-	-1-	- -1-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.08
04-35.7325-108.3411-2-15-						0-N09658-10/06/78-	8-	21-			-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.06
04-35.7467-108.3606-2-15-						0-N09659-10/06/78-	9-	21-			-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.77
04-35.8153-108.3817-2-15-						0-N09660-10/06/78-	9-	22-			-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.04
04-35.8558-108.3603-2-15-						0-N09662-10/06/78-	9-	23-			-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.22
04-35.8603-108.3606-2-15-						0-N09663-10/06/78-10-			23-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.38
04-35.8731-108.3536-2-99-						0-N09664-10/06/78-10-			23-		-C-	-	-	-	-	9-1-6-4-6-	-1-	- -3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.33
04-35.8714-108.3694-2-15-						0-N09665-10/06/78-10-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.23
04-35.7800-108.2714-2-15-						0-N09666-10/06/78-10-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.88
04-35.7997-108.2936-2-15-						0-N09667-10/06/78-11-			23-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.98
04-35.8178-108.2792-2-15-						0-N09669-10/06/78-11-			24-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.12
04-35.0247-109.8911-2-15-						0-N09670-10/13/78-16-			21-		-C-	-	-	-	-	17-1-6-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.91
04-35.0175-109.8725-2-15-						0-N09671-10/13/78-17-			21-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.56
04-35.0044-109.9042-2-15-						0-N09672-10/13/78-17-			21-		-C-	-	-	-	-	8-1-6-4-7-	-1-	-2-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.52
04-35.0408-109.8672-2-15-						0-N09674-10/13/78-10-			25-		-C-	-	-	-	-	8-1-4-4-7-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.09
04-35.0389-109.8694-2-15-						0-N09675-10/13/78-10-			25-		-	-	-	-	-	9-1-4-4-7-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.06
04-35.0803-109.8433-2-15-						0-N09676-10/13/78-15-			26-		-	-	-	-	-	6-1-6-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
04-35.0614-109.8492-2-15-						0-N09677-10/13/78-15-			26-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.02
04-35.0711-109.8306-2-15-						0-N09678-10/13/78-16-			25-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.29
04-35.1042-109.6525-2-15-						0-N09679-10/15/78-13-			24-		-	-	-	-	-	8-1-6-4-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
04-35.1467-109.6569-2-15-						0-N09680-10/15/78-13-			24-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
04-35.1531-109.6708-2-15-						0-N09681-10/15/78-14-			24-		-	-	-	-	-	8-1-6-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87
04-35.1756-109.6642-2-15-						0-N09682-10/15/78-14-			24-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.39
04-35.2189-109.6489-2-15-						0-N09684-10/15/78-15-			24-		-	-	-	-	-	30-1-6-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.87
04-35.6375-109.2486-2-15-						0-N09685-10/02/78-14-			23-		-C-	-	-	-	-	8-1-6-4-6-	-1-	-2-1-3-4-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.46
04-35.6369-109.1353-2-15-						0-N09686-10/02/78-15-			24-		-C-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-3-4-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.02
04-35.6494-109.1519-2-15-						0-N09687-10/02/78-15-			24-		-C-	-	-	-	-	11-1-6-4-6-	-1-	-2-1-3-4-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.99
04-35.6611-109.1339-2-15-						0-N09688-10/02/78-16-			24-		-C-	-	-	-	-	8-1-6-4-6-	-1-	-2-1-3-4-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.81
04-35.6789-109.1308-2-15-						0-N09689-10/02/78-16-			24-		-C-	-	-	-	-	10-1-6-4-6-	-1-	-2-1-3-4-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.22

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

(2)

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
04-35.9689-108.3222-2-15-						0-N09630	-5	-5	-5	31	-20	-15	8	-10	-15	1	30
04-35.9828-108.3211-2-15-						0-N09631	-5	8	-5	18	-20	-15	6	-10	-15	1	28
04-35.9303-108.3667-2-15-						0-N09632	-5	8	-5	25	-20	-15	-5	-10	-15	1	26
04-35.9047-108.3525-2-15-						0-N09633	-5	5	-5	21	-20	-15	10	-10	-15	1	27
04-35.9672-108.2764-2-15-						0-N09634	-5	-5	-5	16	-20	-15	8	-10	-15	2	25
04-35.9867-108.2722-2-15-						0-N09636	-5	-5	-5	30	-20	-15	7	-10	-15	2	27
04-35.9989-108.2822-2-15-						0-N09637	-5	5	-5	20	-20	-15	8	-10	-15	1	28
04-35.9319-108.3067-2-15-						0-N09638	-5	8	-5	28	-20	-15	11	-10	-15	2	38
04-35.9178-108.3122-2-15-						0-N09639	-5	-5	-5	20	-20	-15	5	-10	-15	2	26
04-35.9117-109.2908-2-15-						0-N09640	-5	-5	-5	27	-20	-15	11	-10	-15	2	30
04-35.9106-108.2956-2-15-						0-N09641	-5	-5	-5	21	-20	-15	15	-10	-15	1	28
04-35.9069-108.2928-2-15-						0-N09642	-5	5	-5	26	-20	-15	10	-10	-15	2	40
04-35.8706-108.3042-2-15-						0-N09644	-5	8	-5	31	-20	-15	13	-10	-15	1	29
04-35.8092-108.3497-2-15-						0-N09645	-5	5	-5	19	-20	-15	7	-10	-15	1	21
04-35.7711-108.3597-2-15-						0-N09646	-5	6	-5	15	-20	-15	-5	-10	-15	-1	18
04-35.7669-108.3536-2-15-						0-N09647	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	17
04-35.7686-108.3511-2-15-						0-N09648	-5	5	-5	17	-20	-15	5	-10	-15	-1	18
04-35.7064-108.2819-2-99-						0-N09649	-5	7	-5	12	-20	-15	5	-10	-15	-1	12
04-35.7036-108.2894-2-15-						0-N09651	-5	10	-5	36	-20	-15	15	-10	-15	2	38
04-35.6733-108.3081-2-15-						0-N09652	-5	8	-5	24	-20	-15	17	-10	-15	2	23
04-35.7178-108.2933-2-15-						0-N09653	-5	8	-5	23	-20	-15	12	-10	-15	1	19
04-35.7253-108.3072-2-15-						0-N09655	-5	5	-5	16	-20	-15	10	-10	-15	-1	12
04-35.7122-108.3400-2-99-						0-N09656	-5	-5	-5	21	-20	20	-5	-10	-15	-1	16
04-35.7325-108.3411-2-15-						0-N09658	-5	6	-5	28	-20	-15	-5	-10	-15	-1	15
04-35.7467-108.3606-2-15-						0-N09659	-5	8	-5	17	-20	-15	-5	-10	-15	1	29
04-35.8153-108.3817-2-15-						0-N09660	-5	-5	-5	27	-20	15	9	-10	-15	1	22
04-35.8558-108.3603-2-15-						0-N09662	-5	-5	-5	20	-20	-15	16	-10	-15	1	32
04-35.8603-108.3606-2-15-						0-N09663	-5	5	-5	32	-20	-15	13	-10	-15	1	35
04-35.8731-108.3536-2-99-						0-N09664	-5	6	-5	21	-20	-15	19	-10	-15	2	35
04-35.8714-108.3694-2-15-						0-N09665	-5	-5	-5	26	-20	-15	13	-10	-15	1	19
04-35.7800-108.2714-2-15-						0-N09666	-5	5	-5	21	-20	-15	11	-10	-15	1	18
04-35.7997-108.2936-2-15-						0-N09667	-5	-5	-5	23	-20	-15	11	-10	-15	2	20
04-35.8178-108.2792-2-15-						0-N09669	-5	6	-5	20	-20	-15	7	-10	-15	2	16
04-35.0247-109.8911-2-15-						0-N09670	-5	9	-5	26	-20	-15	15	-10	-15	2	21
04-35.0175-109.8725-2-15-						0-N09671	-5	6	-5	33	-20	-15	-5	-10	-15	1	23
04-35.0044-109.9042-2-15-						0-N09672	-5	-5	-5	39	-20	25	-5	-10	-15	2	37
04-35.0408-109.8672-2-15-						0-N09674	-5	6	-5	32	-20	-15	-5	-10	-15	1	43
04-35.0389-109.8694-2-15-						0-N09675	-5	-5	-5	27	-20	-15	10	-10	-15	1	22
04-35.0803-109.8433-2-15-						0-N09676	-5	-5	-5	32	-20	21	12	-10	-15	2	25
04-35.0614-109.8492-2-15-						0-N09677	-5	6	-5	29	-20	-15	11	-10	-15	2	22
04-35.0711-109.8306-2-15-						0-N09678	-5	-5	-5	43	-20	-15	-5	-10	-15	2	37
04-35.1042-109.6525-2-15-						0-N09679	-5	-5	-5	18	-20	-15	-5	-10	-15	-1	17
04-35.1467-109.6569-2-15-						0-N09680	-5	-5	-5	26	-20	-15	-5	-10	-15	1	41
04-35.1531-109.6708-2-15-						0-N09681	-5	7	-5	21	-20	25	-5	-10	-15	2	34
04-35.1756-109.6642-2-15-						0-N09682	-5	-5	-5	26	-20	-15	8	-10	-15	1	36
04-35.2189-109.6489-2-15-						0-N09684	-5	-5	-5	27	-20	-15	8	-10	-15	1	80
04-35.6375-109.2486-2-15-						0-N09685	-5	6	-5	22	-20	-15	9	-10	-15	1	19
04-35.6369-109.1353-2-15-						0-N09686	-5	-5	-5	18	-20	-15	10	-10	-15	1	19
04-35.6494-109.1519-2-15-						0-N09687	-5	-5	-5	-10	-20	-15	8	-10	-15	1	15
04-35.6611-109.1339-2-15-						0-N09688	-5	6	-5	-10	-20	-15	7	-10	-15	-1	15
04-35.6789-109.1308-2-15-						0-N09689	-5	-5	-5	20	-20	-15	56	-10	-15	-1	14

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
04-	35.9689-	108.3222-2-	15-		0-	N09630	55030	-0.05	744	4454	73	-73	4.7	39	3.4	5	1.2	13010	24.6	21490	32	0.5
04-	35.9828-	108.3211-2-	15-		0-	N09631	54650	-0.06	795	7555	63	-71	5.2	39	3.4	5	1.5	15900	23.7	21040	33	0.6
04-	35.9303-	108.3667-2-	15-		0-	N09632	53780	-0.05	774	10430	75	-80	6.6	28	4.0	4	1.4	16980	21.3	19380	38	0.6
04-	35.9047-	108.3525-2-	15-		0-	N09633	54570	-0.05	719	8608	60	-80	5.5	29	2.8	5	1.3	15650	20.2	21030	32	0.4
04-	35.9672-	108.2764-2-	15-		0-	N09634	51770	-0.05	1553	8421	74	-76	4.6	32	2.5	6	1.5	12420	31.6	19580	30	0.7
04-	35.9867-	108.2722-2-	15-		0-	N09636	54820	-0.06	770	8763	57	720	6.1	28	3.6	4	1.3	16250	16.9	22260	31	0.5
04-	35.9989-	108.2822-2-	15-		0-	N09637	50870	-0.05	730	6406	68	-75	5.6	35	3.0	5	1.3	15950	26.1	22820	34	0.6
04-	35.9319-	108.3067-2-	15-		0-	N09638	59600	-0.05	756	12060	65	-79	7.4	27	4.2	5	1.4	17530	8.7	20110	29	0.4
04-	35.9178-	108.3122-2-	15-		0-	N09639	55440	-0.06	673	6664	68	-66	4.6	32	3.2	5	1.1	15320	18.4	20590	25	0.5
04-	35.9117-	108.2908-2-	15-		0-	N09640	67690	-0.07	667	11150	74	-64	7.0	41	5.4	5	1.4	21950	19.4	21940	37	0.5
04-	35.9106-	108.2956-2-	15-		0-	N09641	55380	-0.05	867	6922	80	-77	6.5	33	4.0	5	1.5	17170	22.9	23440	37	0.6
04-	35.9069-	108.2928-2-	15-		0-	N09642	49390	-0.06	657	14180	68	-69	7.2	35	5.5	6	1.5	24230	20.0	21410	33	0.5
04-	35.8706-	108.3042-2-	15-		0-	N09644	66280	-0.06	691	6379	71	-63	6.9	40	4.4	5	1.3	20900	11.5	21770	29	0.4
04-	35.8092-	108.3497-2-	15-		0-	N09645	40460	-0.05	593	14950	50	-45	4.6	25	2.7	4	1.0	14800	10.0	16490	21	0.3
04-	35.7711-	108.3597-2-	15-		0-	N09646	35800	-0.04	469	16280	61	-48	5.5	38	3.0	5	1.0	16020	18.4	15350	28	0.5
04-	35.7669-	108.3536-2-	15-		0-	N09647	34190	-0.05	535	14400	62	-51	3.7	41	2.1	5	1.2	12180	27.8	14440	31	0.5
04-	35.7686-	108.3511-2-	15-		0-	N09648	34690	-0.05	530	16370	54	70	3.4	29	2.2	5	1.0	13290	14.2	13830	20	0.4
04-	35.7064-	108.2819-2-	99-		0-	N09649	28420	-0.05	341	16990	67	-38	3.7	27	2.6	5	1.1	10820	26.9	12630	34	0.5
04-	35.7036-	108.2894-2-	15-		0-	N09651	81390	-0.07	549	14570	102	-60	9.9	53	8.1	6	1.7	27280	6.6	17720	43	0.7
04-	35.6733-	108.3081-2-	15-		0-	N09652	59040	-0.06	561	9162	68	-63	7.5	26	4.9	6	1.3	16790	7.7	22740	33	0.4
04-	35.7178-	108.2933-2-	15-		0-	N09653	39310	-0.05	641	10010	59	-51	4.0	21	2.3	5	1.0	14850	19.2	18400	26	0.5
04-	35.7253-	108.3072-2-	15-		0-	N09655	31460	-0.05	495	12860	48	-38	4.1	26	2.2	3	0.9	12050	11.1	14620	21	0.4
04-	35.7122-	108.3400-2-	99-		0-	N09656	32560	-0.05	433	20410	47	-38	4.0	27	2.0	4	0.8	13530	8.3	15450	21	0.3
04-	35.7325-	108.3411-2-	15-		0-	N09658	29700	-0.05	413	12860	42	-35	3.4	26	2.2	3	0.8	11330	10.0	14870	23	0.3
04-	35.7467-	108.3606-2-	15-		0-	N09659	48500	-0.06	652	11560	59	-55	6.3	34	3.5	4	1.3	19120	12.7	17580	31	0.4
04-	35.8153-	108.3817-2-	15-		0-	N09660	48570	-0.06	-219	70340	64	-216	8.8	51	3.0	2	1.2	18240	8.8	-7653	33	0.3
04-	35.8558-	108.3603-2-	15-		0-	N09662	56470	-0.07	689	12300	58	-63	6.3	35	2.9	4	1.3	17860	11.5	20060	29	0.4
04-	35.8603-	108.3606-2-	15-		0-	N09663	63400	-0.07	670	9608	76	-76	8.9	44	5.7	5	1.6	23740	12.8	18770	37	0.5
04-	35.8731-	108.3536-2-	99-		0-	N09664	64620	-0.06	660	10310	64	-76	9.0	38	4.7	5	1.4	22520	12.1	19620	36	0.4
04-	35.8714-	108.3694-2-	15-		0-	N09665	59510	-0.06	728	11500	58	-68	6.0	33	3.1	4	1.3	16210	12.5	21970	28	0.4
04-	35.7800-	108.2714-2-	15-		0-	N09666	53650	-0.06	883	5282	71	-66	5.6	21	3.5	5	1.4	14460	25.3	22460	32	0.6
04-	35.7997-	108.2936-2-	15-		0-	N09667	67700	-0.07	779	7608	82	-62	7.3	51	5.9	6	1.5	21420	21.1	18750	36	0.6
04-	35.8178-	108.2792-2-	15-		0-	N09669	62520	-0.06	749	6796	63	-71	7.5	26	4.3	5	1.3	17900	9.1	20380	27	0.4
04-	35.0247-	109.8911-2-	15-		0-	N09670	53020	-0.07	1224	34430	101	-85	6.0	32	4.0	6	1.8	22770	26.8	12230	42	0.7
04-	35.0175-	109.8725-2-	15-		0-	N09671	46320	-0.06	619	59770	58	-74	7.8	38	3.2	4	1.3	17040	8.1	11290	31	0.4
04-	35.0044-	109.9042-2-	15-		0-	N09672	53460	-0.07	795	49020	83	440	10.2	55	3.7	4	1.7	24460	7.6	10690	39	0.4
04-	35.0408-	109.8672-2-	15-		0-	N09674	48980	-0.06	989	57910	66	1117	7.5	42	2.7	4	1.6	19960	7.4	8861	32	0.3
04-	35.0389-	109.8694-2-	15-		0-	N09675	47110	-0.07	2606	50970	106	247	7.6	55	2.0	7	2.3	22710	17.6	6749	37	0.4
04-	35.0803-	109.8433-2-	15-		0-	N09676	46970	-0.06	1927	41790	73	186	9.5	49	2.7	5	1.4	23680	9.0	8456	37	0.3
04-	35.0614-	109.8492-2-	15-		0-	N09677	36950	-0.06	5979	36900	149	349	9.7	64	2.0	6	4.4	32010	17.5	-3297	58	0.5
04-	35.0711-	109.8306-2-	15-		0-	N09678	58910	-0.07	396	51180	63	1536	9.1	42	3.0	4	1.3	23860	4.2	9739	24	0.4
04-	35.1042-	109.6525-2-	15-		0-	N09679	38320	-0.05	485	5996	53	-56	4.3	31	1.8	4	1.0	15850	22.0	16390	24	0.4
04-	35.1467-	109.6569-2-	15-		0-	N09680	46940	-0.06	594	22360	53	-58	5.9	33	3.0	4	1.2	18470	12.6	17190	26	0.4
04-	35.1531-	109.6708-2-	15-		0-	N09681	54920	-0.07	525	53270	70	-77	9.6	51	5.2	5	1.3	24430	6.1	17380	29	0.4
04-	35.1756-	109.6642-2-	15-		0-	N09682	45200	-0.05	1194	49400	85	-90	6.9	53	2.4	5	1.9	21160	15.7	11760	41	0.4
04-	35.2189-	109.6489-2-	15-		0-	N09684	44990	-0.06	663	46290	60	-66	6.1	39	3.5	4	1.1	19620	13.6	16850	25	0.4
04-	35.6375-	109.2486-2-	15-		0-	N09685	41280	-0.06	497	4588	51	-54	4.8	31	3.0	4	1.0	13330	12.9	16780	23	0.3
04-	35.6369-	109.1353-2-	15-		0-	N09686	51360	-0.06	498	5902	91	-62	7.0	49	4.9	5	1.6	21980	17.9	16310	40	0.6
04-	35.6494-	109.1519-2-	15-		0-	N09687	33200	-0.04	459	8639	31	327	2.9	27	1.7	3	0.7	9382	12.6	19070	15	0.2
04-	35.6611-	109.1339-2-	15-		0-	N09688	28070	-0.04	473	5862	27	88	2.5	26	1.7	2	0.6	8747	14.7	16860	12	0.3
04-	35.6789-	109.1309-2-	15-		0-	N09689	33730	-0.06	675	5629	73	-41	6.0	58	2.0	6	1.7	22330	63.0	13480	35	0.8

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	
04-	35.9689-	108.3222-	2-	15-		0-N09630	6052	319	13900	70	-1	5.0	5.1	-204	-1	1	12.6	3566	48	4.2		0.317
04-	35.9828-	108.3211-	2-	15-		0-N09631	8299	344	13850	67	-1	5.6	5.2	-196	-1	-1	12.6	3700	43	3.9	41	0.303
04-	35.9303-	108.3667-	2-	15-		0-N09632	6071	331	13260	72	-1	6.4	5.0	-185	-1	-1	11.7	3436	50	4.9	75	0.302
04-	35.9047-	108.3525-	2-	15-		0-N09633	8268	369	13350	69	-1	5.8	4.9	-189	-1	-1	13.2	3578	49	4.4	63	0.268
04-	35.9672-	108.2764-	2-	15-		0-N09634	7627	368	14510	51	-1	4.7	5.4	-216	-1	-1	13.6	3535	42	5.3	50	0.338
04-	35.9867-	108.2722-	2-	15-		0-N09636	8609	348	18840	65	-1	5.7	5.5	-214	-1	-1	11.1	2837	51	3.8	-50	0.309
04-	35.9989-	108.2822-	2-	15-		0-N09637	7003	309	13220	78	-1	5.6	5.2	-180	2	-1	13.1	4248	44	4.6	37	0.264
04-	35.9319-	109.3067-	2-	15-		0-N09638	8166	316	12310	75	-1	6.7	5.6	-183	-1	-1	10.5	3109	57	3.4	41	0.293
04-	35.9178-	108.3122-	2-	15-		0-N09639	9565	308	11520	78	-1	5.7	5.5	-197	-1	-1	11.7	3125	53	4.1		0.296
04-	35.9117-	108.2908-	2-	15-		0-N09640	11330	337	8861	81	-2	8.4	5.8	-197	-1	-1	13.4	4399	70	5.5	80	0.261
04-	35.9106-	108.2956-	2-	15-		0-N09641	6437	286	13120	90	-1	6.7	6.0	-180	-1	-1	15.2	3254	47	4.7	54	0.237
04-	35.9069-	108.2928-	2-	15-		0-N09642	13020	338	7662	94	-1	8.9	6.5	-188	-1	-1	14.6	3720	68	4.2	87	0.251
04-	35.8706-	108.3042-	2-	15-		0-N09644	11220	320	9158	70	-2	7.5	5.5	-199	-1	-1	10.6	3589	69	3.4		0.312
04-	35.8092-	108.3497-	2-	15-		0-N09645	13200	217	4762	50	-1	4.9	4.1	-147	-1	-1	8.9	2511	43	2.9	60	0.279
04-	35.7711-	108.3597-	2-	15-		0-N09646	15480	197	4729	45	-1	5.1	4.8	-136	-1	-1	9.5	2736	44	4.3	75	0.301
04-	35.7669-	108.3536-	2-	15-		0-N09647	13640	190	5438	52	-1	4.8	4.8	-130	-1	-1	12.5	3144	38	4.4	48	0.283
04-	35.7686-	108.3511-	2-	15-		0-N09648	15910	193	4715	56	-1	4.3	4.4	-143	-1	-1	8.8	2771	38	3.1	67	0.310
04-	35.7064-	108.2819-	2-	99-		0-N09649	18180	171	3368	45	-1	4.5	5.3	-129	-1	-1	13.0	2725	34	4.3	-20	0.285
04-	35.7036-	108.2894-	2-	15-		0-N09651	15370	243	4563	103	-3	12.4	7.4	-174	-1	-1	15.4	4627	92	4.9	130	0.327
04-	35.6733-	108.3081-	2-	15-		0-N09652	12300	223	7184	107	-1	7.8	5.4	-158	-1	-1	11.3	3803	65	2.5		0.328
04-	35.7178-	108.2933-	2-	15-		0-N09653	7791	229	6237	50	1	4.3	3.4	-163	-1	-1	9.1	2960	42	3.0	55	0.366
04-	35.7253-	108.3072-	2-	15-		0-N09655	9983	192	3712	44	-1	3.8	3.4	-132	-1	-1	7.4	2338	35	2.3	-19	0.277
04-	35.7122-	108.3400-	2-	99-		0-N09656	17170	187	2626	44	-1	3.8	4.0	-140	-1	-1	8.2	2014	41	2.9	53	0.254
04-	35.7325-	108.3411-	2-	15-		0-N09658	8039	171	3494	38	-1	3.8	3.7	-120	-1	-1	7.7	2197	33	2.9	34	0.268
04-	35.7467-	108.3606-	2-	15-		0-N09659	11100	252	4116	74	-1	6.7	4.8	-152	-1	-1	10.5	2751	47	4.9	100	0.264
04-	35.8153-	108.3817-	2-	15-		0-N09660	-7557	3394	5609	50	-2	9.1	5.6	-597	-1	-1	9.9	-1280	44	2.7	90	0.307
04-	35.8558-	108.3603-	2-	15-		0-N09662	11580	347	10920	85	-1	6.9	4.2	-187	-1	-1	9.6	3510	51	3.7	92	0.335
04-	35.8603-	108.3606-	2-	15-		0-N09663	13600	378	10350	77	-2	8.9	5.0	-201	-1	-1	10.7	4175	64	4.1	49	0.316
04-	35.8731-	108.3536-	2-	99-		0-N09664	13120	377	10380	73	-2	8.4	5.6	-195	-1	-1	11.0	3709	66	3.1	84	0.303
04-	35.8714-	108.3694-	2-	15-		0-N09665	11950	362	11300	56	-1	6.3	4.4	-209	-1	-1	10.2	3463	58	4.2	-49	0.317
04-	35.7800-	108.2714-	2-	15-		0-N09666	7668	283	13480	92	-1	5.8	4.9	-183	-1	1	13.2	3653	47	4.7	72	0.294
04-	35.7997-	108.2936-	2-	15-		0-N09667	9339	274	6850	72	-2	9.0	6.0	-167	-1	-1	14.3	3996	68	5.9	87	0.278
04-	35.8178-	108.2792-	2-	15-		0-N09669	7603	319	9926	92	-1	7.2	5.2	-173	-1	1	10.6	3781	56	3.4	-76	0.294
04-	35.0247-	109.8911-	2-	15-		0-N09670	14410	907	10970	51	-1	5.8	6.4	-301	-1	-1	14.2	3959	54	5.0	61	0.346
04-	35.0175-	109.8725-	2-	15-		0-N09671	17780	836	8032	44	-1	5.7	4.8	-272	-1	-1	9.0	2999	49	3.6	34	0.284
04-	35.0044-	109.9042-	2-	15-		0-N09672	24720	723	12570	-24	-2	8.5	6.9	-283	-1	-1	11.9	3182	61	4.0	-57	0.212
04-	35.0408-	109.8672-	2-	15-		0-N09674	19650	710	14440	-18	-1	6.5	5.9	-257	-1	-1	8.0	2512	61	3.2	116	0.261
04-	35.0389-	109.8694-	2-	15-		0-N09675	15500	733	12540	-19	-2	6.3	8.6	-312	-1	-1	9.5	4037	105	3.9	33	0.322
04-	35.0803-	109.8433-	2-	15-		0-N09676	13750	770	12330	43	-1	6.3	6.3	-270	-1	-1	7.8	3196	79	3.5	61	0.308
04-	35.0614-	109.8492-	2-	15-		0-N09677	12630	993	11500	28	-1	6.2	11.6	417	-1	1	11.7	4634	134	4.0	37	0.258
04-	35.0711-	109.8306-	2-	15-		0-N09678	24530	664	14170	42	-2	8.6	5.8	308	-1	-1	10.4	3085	64	2.3	84	0.220
04-	35.1042-	109.6525-	2-	15-		0-N09679	6663	357	7717	39	-1	3.9	3.6	-185		-1	8.0	4450	55	3.3	-16	0.338
04-	35.1467-	109.6569-	2-	15-		0-N09680	15690	398	8046	62	-1	5.5	3.9	-193	-1		6.8	3664	62	3.1	23	0.338
04-	35.1531-	109.6708-	2-	15-		0-N09681	25250	661	6931	69	-2	8.7	5.7	453	-1	-1	10.0	3383	54	3.0	-60	0.187
04-	35.1756-	109.6642-	2-	15-		0-N09682	13090	726	11740	42	-1	5.8	6.7	-243	-1	-1	9.9	3605	69	4.1	-20	0.241
04-	35.2189-	109.6489-	2-	15-		0-N09684	18570	587	7693	43	-1	6.0	4.5	-237	-1	-1	8.3	3982	64	3.3	-18	0.346
04-	35.6375-	109.2486-	2-	15-		0-N09685	5729	322	7166	57	-1	4.7	4.0	-175	-1	-1	6.5	3633	42	2.7	58	0.378
04-	35.6369-	109.1353-	2-	15-		0-N09686	7897	331	6441	47	-1	7.4	6.5	-174	-1	-1	13.0	3901	58	4.6	49	0.232
04-	35.6494-	109.1519-	2-	15-		0-N09687	6904	190	7031	37	-1	3.1	2.2	-131			5.3	2021	25	2.5	31	0.375
04-	35.6611-	109.1339-	2-	15-		0-N09688	5570	176	6026	40	-1	2.2	2.2	-135			4.4	2014	27	2.0	24	0.411
04-	35.6789-	109.1308-	2-	15-		0-N09689	5272	285	4354	-18	-1	5.5	5.2	-147	-1	-1	14.7	5310	61	6.7	40	0.355

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
04-	35.7156-	109.1389-	2-	15-	0-	N09690-	10/02/78-	17-	23-		C-	-		-	-	8-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	2.68
04-	35.7425-	109.1267-	2-	15-	0-	N09691-	10/02/78-	17-	23-		C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	2.89
04-	35.7489-	109.1286-	2-	15-	0-	N09692-	10/02/78-	17-	23-		C-	-		-	-	8-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	1.16
04-	35.6528-	109.1189-	2-	15-	0-	N09693-	10/03/78-	9-	19-		C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	2.64
04-	35.6464-	109.1042-	2-	15-	0-	N09694-	10/03/78-	9-	19-		C-	-		-	-	10-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	3.43
04-	35.6606-	109.1075-	2-	15-	0-	N09696-	10/03/78-	10-	20-		C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	3.14
04-	35.6653-	109.0797-	2-	15-	0-	N09697-	10/03/78-	10-	20-		C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	1.88
04-	35.6844-	109.1022-	2-	15-	0-	N09698-	10/03/78-	11-	21-		C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	1-	3-	3-	1-	-9-	-	-	-	-	2.78
04-	35.7078-	109.1033-	2-	15-	0-	N09699-	10/03/78-	11-	21-		C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	1-	3-	3-	1-	-9-	-	-	-	-	4.28
04-	35.7039-	109.0861-	2-	15-	0-	N09700-	10/03/78-	12-	22-		C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	1.87
04-	35.7308-	109.0672-	2-	15-	0-	N09701-	10/03/78-	13-	22-		C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	1.76
04-	35.7461-	109.0631-	2-	15-	0-	N09702-	10/03/78-	13-	22-		C-	-		-	-	10-	1-	6-	4-	6-	-1-	-2-	3-	3-	3-	1-	-9-	-	-	-	-	4.26
04-	35.7253-	109.0208-	2-	15-	0-	N09703-	10/03/78-	14-	23-		C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	2.15
04-	35.6517-	109.0286-	2-	15-	0-	N09705-	10/03/78-	16-	23-		C-	-		-	-	10-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	2.19
04-	35.6444-	109.0231-	2-	15-	0-	N09706-	10/03/78-	16-	23-		C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	2.37
04-	35.6428-	109.0242-	2-	15-	0-	N09707-	10/03/78-	17-	23-		C-	-		-	-	10-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	2.29
04-	35.6256-	109.0808-	2-	15-	0-	N09708-	10/03/78-	10-	20-		C-	-		-	-	11-	1-	6-	4-	6-	-1-	-2-	1-	3-	4-	1-	-9-	-	-	-	-	3.92
04-	35.1469-	109.3069-	2-	15-	0-	N09710-	10/13/78-	16-	27-		C-	-		-	-	12-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.08
04-	35.1472-	109.2833-	2-	15-	0-	N09711-	10/13/78-	16-	27-		C-	-		-	-	9-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.32
04-	35.1644-	109.2386-	2-	15-	0-	N09713-	10/13/78-	17-	27-		C-	-		-	-	11-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	1.94
04-	35.0847-	109.3358-	2-	15-	0-	N09714-	10/13/78-	17-	25-		C-	-		-	-	19-	1-	6-	5-	6-	-1-	-1-	4-	3-	1-	1-	-3-	-	-	-	-	1.95
04-	35.0694-	109.3609-	2-	15-	0-	N09715-	10/13/78-	17-	25-		C-	-		-	-	11-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.33
04-	35.0867-	109.3689-	2-	15-	0-	N09717-	10/13/78-	18-	25-		C-	-		-	-	14-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.27
04-	35.0950-	109.3742-	2-	15-	0-	N09719-	10/13/78-	18-	24-		C-	-		-	-	12-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.07
04-	35.0997-	109.3897-	2-	15-	0-	N09720-	10/13/78-	18-	23-		C-	-		-	-	9-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	1.97
04-	35.1194-	109.4422-	2-	15-	0-	N09730-	10/14/78-	16-	26-		C-	-		-	-	14-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.21
04-	35.1214-	109.4436-	2-	15-	0-	N09731-	10/14/78-	16-	26-		C-	-		-	-	12-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.32
04-	35.1067-	109.4519-	2-	11-	0-	N09733-	10/14/78-	17-	27-	17.0-	C-	-	8.2-	800-		6-	1-	6-	5-	6-	-2-	1-	-3-	3-	1-	1-	-3-	-	-	-	-	2.45
04-	35.0958-	109.4469-	2-	15-	0-	N09734-	10/14/78-	17-	26-		C-	-		-	-	6-	1-	6-	5-	6-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	1.98
04-	35.0258-	109.4047-	2-	15-	0-	N09737-	10/14/78-	18-	24-		C-	-		-	-	15-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.07
04-	35.0531-	109.3853-	2-	15-	0-	N09739-	10/16/78-	11-	26-		C-	-		-	-	11-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.37
04-	35.0403-	109.3425-	2-	15-	0-	N09741-	10/16/78-	11-	24-		C-	-		-	-	7-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.31
04-	35.0353-	109.3294-	2-	15-	0-	N09742-	10/16/78-	11-	26-		C-	-		-	-	11-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.36
04-	35.0403-	109.3542-	2-	15-	0-	N09743-	10/16/78-	12-	27-		C-	-		-	-	25-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-3-	-	-	-	-	2.14
04-	35.0408-	109.3569-	2-	15-	0-	N09744-	10/16/78-	12-	27-		C-	-		-	-	15-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-3-	-	-	-	-	2.19
04-	35.0417-	109.3583-	2-	15-	0-	N09745-	10/16/78-	12-	27-		C-	-		-	-	17-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-3-	-	-	-	-	2.17
04-	35.0342-	109.4867-	2-	15-	0-	N09746-	10/16/78-	16-	25-		C-	-		-	-	12-	1-	6-	5-	6-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	2.49
04-	35.0986-	109.4953-	2-	15-	0-	N09750-	10/17/78-	13-	27-		C-	-		-	-	19-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	3.39
04-	35.0794-	109.4836-	2-	15-	0-	N09751-	10/17/78-	13-	27-		C-	-		-	-	23-	1-	6-	5-	6-	-1-	-2-	3-	3-	1-	1-	-3-	-	-	-	-	3.42
04-	35.0658-	109.4864-	2-	15-	0-	N09752-	10/17/78-	13-	27-		C-	-		-	-	6-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.27
04-	35.0217-	109.5458-	2-	11-	0-	N09753-	10/17/78-	14-	27-	22.0-	C-	-	8.0-	340-		28-	1-	6-	5-	6-	-2-	2-	1-	-3-	3-	2-	1-	-3-	-	-	-	-	3.10
04-	35.0300-	109.5758-	2-	15-	0-	N09754-	10/17/78-	15-	27-		C-	-		-	-	9-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	2.56
04-	35.0278-	109.5717-	2-	15-	0-	N09755-	10/17/78-	16-	26-		C-	-		-	-	17-	1-	6-	4-	6-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	3.98
04-	35.1375-	109.5850-	2-	15-	0-	N09756-	10/17/78-	16-	26-		C-	-		-	-	12-	1-	6-	5-	6-	-1-	-2-	3-	3-	1-	1-	-3-	-	-	-	-	2.56
04-	35.1392-	109.5786-	2-	15-	0-	N09757-	10/17/78-	17-	25-		C-	-		-	-	22-	1-	6-	5-	6-	-1-	-2-	3-	3-	1-	1-	-3-	-	-	-	-	2.52
04-	35.1669-	109.5761-	2-	15-	0-	N09758-	10/17/78-	17-	25-		C-	-		-	-	19-	1-	6-	5-	6-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	2.34
04-	35.1342-	109.5436-	2-	15-	0-	N09759-	10/17/78-	17-	25-		C-	-		-	-	11-	1-	6-	4-	6-	-1-	-1-	3-	3-	2-	1-	-3-	-	-	-	-	3.38
04-	35.1253-	109.5236-	2-	15-	0-	N09761-	10/17/78-	18-	25-		C-	-		-	-	15-	1-	6-	5-	6-	-1-	-1-	3-	3-	1-	1-	-3-	-	-	-	-	2.40
04-	35.1697-	109.4492-	2-	15-	0-	N09762-	10/18/78-	11-	28-		C-	-		-	-	14-	1-	6-	5-	6-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	2.81
04-	35.1992-	109.4258-	2-	15-	0-	N09763-	10/18/78-	11-	28-		C-	-		-	-	6-	1-	6-	5-	6-	-1-	-2-	3-	3-	2-	1-	-3-	-	-	-	-	1.90
04-	35.2039-	109.4033-	2-	15-	0-	N09764-	10/18/78-	12-	28-		C-	-		-	-	9-	1-	6-	5-	6-	-1-	-1-	3-	3-	2-	1-	-3-	-	-	-	-	2.13

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

(2)

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
04-35.7156-109.1389-2-15-						0-N09690	-5	-5	-5	-10	-20	-15	11	-10	-15	1	24
04-35.7425-109.1267-2-15-						0-N09691	-5	-5	-5	21	-20	-15	10	-10	-15	2	30
04-35.7489-109.1286-2-15-						0-N09692	-5	-5	-5	19	-20	-15	-5	-10	-15	-1	8
04-35.6528-109.1189-2-15-						0-N09693	-5	5	-5	24	-20	-15	7	-10	-15	1	26
04-35.6464-109.1042-2-15-						0-N09694	-5	-5	-5	22	-20	-15	-5	-10	-15	1	20
04-35.6606-109.1075-2-15-						0-N09696	-5	-5	-5	19	-20	-15	9	-10	-15	1	15
04-35.6653-109.0797-2-15-						0-N09697	-5	-5	-5	20	-20	-15	-5	-10	-15	1	14
04-35.6844-109.1022-2-15-						0-N09698	-5	7	-5	28	-20	17	11	-10	-15	2	26
04-35.7078-109.1033-2-15-						0-N09699	-5	-5	-5	22	-20	-15	5	-10	-15	2	21
04-35.7039-109.0861-2-15-						0-N09700	-5	5	-5	18	-20	-15	-5	-10	15	-1	9
04-35.7308-109.0672-2-15-						0-N09701	-5	-5	-5	16	-20	-15	5	-10	-15	1	12
04-35.7461-109.0631-2-15-						0-N09702	-5	-5	-5	22	-20	-15	14	-10	-15	1	17
04-35.7253-109.0208-2-15-						0-N09703	-5	-5	-5	25	-20	16	5	-10	-15	1	20
04-35.6517-109.0286-2-15-						0-N09705	-5	-5	-5	-10	-20	-15	-5	-10	-15	-1	11
04-35.6444-109.0231-2-15-						0-N09706	-5	-5	-5	24	-20	-15	17	-10	-15	2	25
04-35.6428-109.0242-2-15-						0-N09707	-5	-5	-5	20	-20	-15	7	-10	-15	2	21
04-35.6256-109.0808-2-15-						0-N09708	-5	5	-5	24	-20	-15	39	-10	-15	2	25
04-35.1469-109.3069-2-15-						0-N09710	-5	-5	-5	26	-20	-15	9	-10	-15	1	26
04-35.1472-109.2833-2-15-						0-N09711	-5	5	-5	20	-20	17	12	-10	-15	2	39
04-35.1644-109.2386-2-15-						0-N09713	-5	-5	-5	26	-20	-15	16	-10	-15	2	27
04-35.0847-109.3358-2-15-						0-N09714	-5	-5	-5	31	-20	-15	16	-10	-15	2	32
04-35.0694-109.3608-2-15-						0-N09715	-5	6	-5	19	-20	-15	8	-10	-15	1	26
04-35.0867-109.3689-2-15-						0-N09717	-5	-5	-5	27	-20	-15	12	-10	-15	2	82
04-35.0950-109.3742-2-15-						0-N09719	-5	5	-5	26	-20	-15	10	-10	-15	1	26
04-35.0997-109.3897-2-15-						0-N09720	-5	-5	-5	33	-20	-15	9	-10	-15	1	34
04-35.1194-109.4422-2-15-						0-N09730	-5	-5	-5	23	-20	16	11	-10	-15	1	44
04-35.1214-109.4436-2-15-						0-N09731	-5	-5	-5	18	-20	-15	9	-10	-15	1	40
04-35.1067-109.4519-2-11-						0-N09733	-5	-5	-5	25	-20	-15	8	-10	-15	1	27
04-35.0958-109.4469-2-15-						0-N09734	-5	5	-5	17	-20	-15	8	-10	-15	1	30
04-35.0258-109.4047-2-15-						0-N09737	-5	-5	-5	24	-20	-15	-5	-10	-15	1	30
04-35.0531-109.3853-2-15-						0-N09738	-5	5	-5	23	-20	-15	9	-10	-15	2	34
04-35.0403-109.3425-2-15-						0-N09741	-5	5	-5	36	-20	-15	10	-10	-15	2	45
04-35.0353-109.3294-2-15-						0-N09742	-5	-5	-5	29	-20	18	-5	-10	-15	2	65
04-35.0403-109.3542-2-15-						0-N09743	-5	-5	-5	16	-20	-15	-5	-10	-15	2	48
04-35.0408-109.3569-2-15-						0-N09744	-5	7	-5	15	-20	-15	10	-10	-15	2	37
04-35.0417-109.3583-2-15-						0-N09745	-5	-5	-5	30	-20	-15	5	-10	-15	1	34
04-35.0342-109.4867-2-15-						0-N09746	-5	8	-5	15	-20	15	-5	-10	-15	1	27
04-35.0986-109.4953-2-15-						0-N09750	-5	6	-5	23	-20	-15	11	-10	-15	2	30
04-35.0794-109.4836-2-15-						0-N09751	-5	-5	-5	25	-20	-15	6	-10	-15	1	56
04-35.0658-109.4864-2-15-						0-N09752	-5	-5	-5	31	-20	-15	-5	-10	-15	1	24
04-35.0217-109.5458-2-11-						0-N09753	-5	5	-5	17	-20	-15	5	-10	-15	1	41
04-35.0300-109.5758-2-15-						0-N09754	-5	6	-5	34	-20	-15	-5	-10	-15	1	22
04-35.0278-109.5717-2-15-						0-N09755	-5	-5	-5	29	-20	15	11	-10	-15	2	30
04-35.1375-109.5850-2-15-						0-N09756	-5	-5	-5	24	-20	-15	-5	-10	-15	1	39
04-35.1392-109.5786-2-15-						0-N09757	-5	5	-5	16	-20	-15	8	-10	-15	1	32
04-35.1669-109.5761-2-15-						0-N09758	-5	-5	-5	26	-20	19	5	-10	-15	1	23
04-35.1342-109.5436-2-15-						0-N09759	-5	6	-5	21	-20	-15	8	-10	-15	1	16
04-35.1253-109.5236-2-15-						0-N09761	-5	-5	-5	38	-20	15	11	-10	-15	1	60
04-35.1697-109.4492-2-15-						0-N09762	-5	5	-5	22	-20	-15	-5	-10	-15	1	27
04-35.1992-109.4258-2-15-						0-N09763	-5	9	-5	26	-20	-15	5	-10	-15	2	20
04-35.2039-109.4033-2-15-						0-N09764	-5	7	-5	28	-20	-15	13	-10	-15	2	32

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
04-35.7156-109.1389-2-15-			0	N	0	N09690	35710	-0.05	431	14840	41	7074	3.9	36	2.0	3	1.1	11870	13.8	18490	23	0.4
04-35.7425-109.1267-2-15-			0	N	0	N09691	58570	-0.06	542	8413	65	-67	7.3	41	3.8	5	1.4	20850	13.4	13770	32	0.5
04-35.7489-109.1286-2-15-			0	N	0	N09692	18910	-0.04	203	2511	22	-32	2.3	18	1.0	2	0.4	5323	6.4	7616	11	0.2
04-35.6528-109.1189-2-15-			0	N	0	N09693	34690	-0.05	495	8404	37	6019	4.1	37	2.4	3	1.0	11170	16.3	15840	24	0.3
04-35.6464-109.1042-2-15-			0	N	0	N09694	52370	-0.06	728	3590	76	-65	6.8	32	4.0	5	1.4	16590	16.5	20380	34	0.5
04-35.6606-109.1075-2-15-			0	N	0	N09696	29590	-0.04	491	6881	42	-54	3.5	50	2.4	4	1.1	15420	32.1	15430	20	0.5
04-35.6653-109.0797-2-15-			0	N	0	N09697	29560	-0.04	449	7136	28	173	1.9	20	1.4	2	0.7	8231	12.8	16430	14	0.2
04-35.6844-109.1022-2-15-			0	N	0	N09698	64980	-0.08	610	9795	67	-41	8.0	56	4.3	5	1.2	28360	14.2	18920	33	0.4
04-35.7078-109.1033-2-15-			0	N	0	N09699	51950	-0.06	791	3595	89	-62	6.7	46	4.4	6	1.5	18100	31.0	19590	44	0.8
04-35.7039-109.0861-2-15-			0	N	0	N09700	32050	-0.04	380	8820	31	-39	2.9	35	1.6	3	0.8	10390	11.6	21270	16	0.3
04-35.7308-109.0672-2-15-			0	N	0	N09701	27410	-0.04	406	6863	29	104	2.0	31	-0.7	3	0.7	7550	11.6	21600	13	0.3
04-35.7461-109.0631-2-15-			0	N	0	N09702	48370	-0.06	909	3796	74	-54	6.4	23	3.8	6	0.9	16250	28.1	21290	33	0.6
04-35.7253-109.0208-2-15-			0	N	0	N09703	42020	-0.05	518	12230	55	-52	4.4	33	3.7	3	1.0	14900	15.2	16540	26	0.4
04-35.6517-109.0286-2-15-			0	N	0	N09705	28210	-0.04	351	3357	34	-50	3.0	43	1.7	4	1.0	9242	21.0	13140	18	0.3
04-35.6444-109.0231-2-15-			0	N	0	N09706	62850	-0.07	646	13280	64	-41	7.5	47	3.8	4	1.2	24040	7.9	19170	24	0.3
04-35.6428-109.0242-2-15-			0	N	0	N09707	54470	-0.06	610	21060	52	-52	5.8	34	3.6	4	1.0	17930	8.8	17390	28	0.4
04-35.6256-109.0808-2-15-			0	N	0	N09708	60430	-0.06	733	5193	85	-64	8.5	33	5.8	6	1.5	18980	18.2	21750	42	0.5
04-35.1469-109.3069-2-15-			0	N	0	N09710	68980	-0.07	587	23980	66	-67	9.6	39	5.4	5	1.5	27610	6.3	20300	28	0.4
04-35.1472-109.2833-2-15-			0	N	0	N09711	48530	-0.06	543	6405	52	-67	6.2	31	3.2	4	1.1	17870	11.1	19310	25	0.4
04-35.1644-109.2386-2-15-			0	N	0	N09713	54080	-0.07	671	18950	55	-59	7.4	41	5.1	5	1.3	21500	8.0	20500	29	0.3
04-35.0847-109.3358-2-15-			0	N	0	N09714	56060	-0.06	568	18270	69	-69	6.9	37	5.2	4	1.3	23230	8.8	22610	28	0.4
04-35.0694-109.3608-2-15-			0	N	0	N09715	48270	-0.05	617	35260	50	-63	6.5	38	3.7	4	1.2	21340	13.3	16470	31	0.4
04-35.0867-109.3689-2-15-			0	N	0	N09717	71420	-0.08	414	39120	61	-46	8.7	43	6.6	4	1.2	30570	5.4	16940	31	0.3
04-35.0950-109.3742-2-15-			0	N	0	N09719	45150	-0.05	636	18050	55	-65	5.0	34	3.2	3	1.1	18060	13.8	20620	26	0.4
04-35.0997-109.3897-2-15-			0	N	0	N09720	55930	-0.06	631	43630	54	-67	6.5	31	4.0	4	1.2	20430	7.7	17540	25	0.3
04-35.1194-109.4422-2-15-			0	N	0	N09730	54830	-0.06	553	28640	60	1766	6.5	32	3.8	4	1.0	20990	9.1	16920	31	0.3
04-35.1214-109.4436-2-15-			0	N	0	N09731	46250	-0.06	639	29830	44	5179	5.3	35	3.1	4	1.1	18150	10.5	18630	23	0.3
04-35.1067-109.4519-2-11-			0	N	0	N09733	41000	-0.05	660	27520	53	154	4.9	34	2.2	3	1.3	16710	14.7	17690	23	0.4
04-35.0958-109.4469-2-15-			0	N	0	N09734	49290	-0.05	586	22170	44	-66	5.4	28	3.3	3	1.0	16770	6.4	18810	25	0.4
04-35.0258-109.4047-2-15-			0	N	0	N09737	50760	-0.05	582	22770	49	-54	4.0	23	3.3	3	0.9	15920	8.4	18300	19	0.2
04-35.0531-109.3853-2-15-			0	N	0	N09738	53510	-0.06	701	34220	60	-56	6.7	32	3.9	4	1.2	21490	11.5	17520	26	0.4
04-35.0403-109.3425-2-15-			0	N	0	N09741	62540	-0.06	568	43110	67	-63	8.1	37	5.9	4	1.3	27170	6.4	18730	33	0.4
04-35.0353-109.3294-2-15-			0	N	0	N09742	65940	-0.06	479	36900	69	-59	7.1	35	5.9	4	1.2	26650	5.5	16070	25	0.4
04-35.0403-109.3542-2-15-			0	N	0	N09743	62890	-0.07	550	39030	56	-55	5.4	35	4.6	4	1.0	20830	6.9	17980	25	0.3
04-35.0408-109.3569-2-15-			0	N	0	N09744	56730	-0.06	616	24190	53	-55	6.8	37	4.5	4	1.3	22200	9.9	20420	22	0.3
04-35.0417-109.3583-2-15-			0	N	0	N09745	48670	-0.05	642	18050	52	-64	5.9	38	3.9	3	1.3	20280	13.2	17930	25	0.4
04-35.0342-109.4867-2-15-			0	N	0	N09746	40440	-0.04	625	17240	47	-64	5.0	29	2.3	4	1.2	19120	18.8	16910	25	0.4
04-35.0986-109.4953-2-15-			0	N	0	N09750	43220	-0.05	618	19060	64	-60	5.9	44	2.6	4	1.1	21510	19.7	15650	22	0.5
04-35.0794-109.4836-2-15-			0	N	0	N09751	44950	-0.06	560	19970	55	-58	7.7	49	3.1	5	1.4	25630	22.7	19660	31	0.4
04-35.0658-109.4864-2-15-			0	N	0	N09752	41240	-0.04	565	12700	47	-61	4.6	32	2.6	3	0.9	17320	13.0	17130	25	0.3
04-35.0217-109.5458-2-11-			0	N	0	N09753	54010	-0.06	661	42160	51	563	6.5	36	5.1	4	1.2	21300	7.9	17350	24	0.3
04-35.0300-109.5758-2-15-			0	N	0	N09754	46560	-0.06	959	22060	58	-67	7.9	45	2.2	4	1.3	23000	13.5	12040	28	0.4
04-35.0278-109.5717-2-15-			0	N	0	N09755	59640	-0.08	2036	32910	71	-69	15.0	85	4.0	5	1.0	46050	20.2	11320	39	0.6
04-35.1375-109.5850-2-15-			0	N	0	N09756	49640	-0.05	725	20640	59	-69	7.4	40	3.5	4	1.3	21060	10.4	18520	27	0.4
04-35.1392-109.5786-2-15-			0	N	0	N09757	43420	-0.05	998	19290	48	-71	6.0	37	2.3	4	1.3	20020	11.6	15060	23	0.3
04-35.1669-109.5761-2-15-			0	N	0	N09758	46030	-0.06	2350	27800	80	-68	8.2	48	2.3	4	1.9	21920	13.2	9871	31	0.4
04-35.1342-109.5436-2-15-			0	N	0	N09759	35720	-0.05	491	11700	60	-56	5.9	54	2.1	5	1.4	25800	36.6	14410	33	0.5
04-35.1253-109.5236-2-15-			0	N	0	N09761	57090	-0.06	648	36280	73	-69	8.4	49	9.3	4	1.4	24020	8.6	17160	24	0.4
04-35.1697-109.4492-2-15-			0	N	0	N09762	38960	-0.05	1132	16140	51	-60	6.3	45	3.5	4	1.5	23450	22.6	16210	28	0.4
04-35.1992-109.4258-2-15-			0	N	0	N09763	56670	-0.06	680	19040	41	-60	6.7	33	6.5	4	0.9	20410	6.2	17680	20	0.2
04-35.2039-109.4033-2-15-			0	N	0	N09764	63800	-0.07	629	20110	48	-56	8.8	37	12.2	4	1.1	22120	5.3	18580	13	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
04-	35.7156-	109.1389-	2-	15-	0-	N09690	10730	229	12250	55	-1	4.1	3.2	-177	-1	-1	6.6	2539	32	3.0	57	0.406
04-	35.7425-	109.1267-	2-	15-	0-	N09691	11140	646	4987	-21	-2	7.6	5.1	-224	-1	-1	9.8	3816	53	4.0	-10	0.295
04-	35.7489-	109.1286-	2-	15-	0-	N09692	2283	178	2306	-10	-1	2.0	1.6	-125			2.8	1605	20	1.7		0.414
04-	35.6528-	109.1189-	2-	15-	0-	N09693	7473	200	9867	58	-1	3.8	2.9	-167	-1	-1	7.4	2696	32	2.2	32	0.357
04-	35.6464-	109.1042-	2-	15-	0-	N09694	7746	217	8972	104	-1	6.5	4.9	-156	-1	-1	11.6	3832	48	3.7	71	0.296
04-	35.6606-	109.1075-	2-	15-	0-	N09696	4931	306	6213	43	-1	3.3	4.1	-152	-1		8.0	3506	42	3.3	-42	0.393
04-	35.6653-	109.0797-	2-	15-	0-	N09697	4750	179	5748	44	-1	2.3	2.1	-138			5.2	2188	25	2.0	-20	0.362
04-	35.6844-	109.1022-	2-	15-	0-	N09698	14650	303	3222	87	-2	9.2	5.6	-166	-1	-1	10.0	4353	69	3.2	59	0.278
04-	35.7078-	109.1033-	2-	15-	0-	N09699	6676	278	7878	67	-1	7.0	6.1	-164	-1	-1	15.4	3886	46	5.7	-15	0.278
04-	35.7039-	109.0861-	2-	15-	0-	N09700	7731	159	2910	35	-1	3.3	2.8	-113			4.8	2885	23	2.1	-15	0.390
04-	35.7308-	109.0672-	2-	15-	0-	N09701	6888	112	2569	36	-1	2.4	2.7	-109			4.3	2778	23	2.2	16	0.409
04-	35.7461-	109.0631-	2-	15-	0-	N09702	4365	257	8756	71	-1	6.0	5.5	-161	-1	-1	13.6	4208	43	4.7	58	0.313
04-	35.7253-	109.0208-	2-	15-	0-	N09703	7014	219	5940	48	-1	5.0	3.5	-137	-1	-1	6.7	2731	39	3.1	29	0.321
04-	35.6517-	109.0286-	2-	15-	0-	N09705	4373	259	5285	37	-1	3.4	2.8	-138	-1		5.6	2313	26	2.1	46	0.391
04-	35.6444-	109.0231-	2-	15-	0-	N09706	12390	344	2915	61	-2	7.9	4.5	-176	-1	-1	8.9	3597	63	3.8	59	0.266
04-	35.6428-	109.0242-	2-	15-	0-	N09707	10020	303	6566	50	-1	6.5	3.6	-169	-1	-1	7.8	3664	48	2.9	61	0.294
04-	35.6256-	109.0808-	2-	15-	0-	N09708	8900	269	8402	92	-2	8.5	6.2	-165	-1	-1	13.8	4167	59	4.7	76	0.284
04-	35.1469-	109.3069-	2-	15-	0-	N09710	24340	603	4948	78	-2	10.7	7.0	-221	-1	-1	10.9	2875	59	3.5	54	0.191
04-	35.1472-	109.2833-	2-	15-	0-	N09711	10610	542	8859	64	-1	5.4	3.9	-228	-1	-1	7.8	3343	41	3.7	52	0.297
04-	35.1644-	109.2386-	2-	15-	0-	N09713	16790	461	7236	77	-2	7.3	4.0	-209	-1	-1	9.5	2885	50	2.4	82	0.204
04-	35.0847-	109.3358-	2-	15-	0-	N09714	17600	455	6945	77	-1	7.6	5.1	-205	-1	-1	9.2	3484	56	3.7	-96	0.212
04-	35.0694-	109.3608-	2-	15-	0-	N09715	15370	334	7224	72	-1	6.3	3.9	-165	-1	-1	9.0	3309	62	3.7	42	0.259
04-	35.0867-	109.3689-	2-	15-	0-	N09717	32040	422	3033	95	-2	10.9	4.5	-192	-1	-1	9.3	3077	86	3.0	98	0.244
04-	35.0950-	109.3742-	2-	15-	0-	N09719	10610	325	8224	59	-1	5.3	4.0	-169	-1	-1	7.9	3336	47	3.7	-79	0.262
04-	35.0997-	109.3897-	2-	15-	0-	N09720	19280	360	6595	54	-1	6.8	3.9	-180	-1	-1	8.0	3253	56	2.2	54	0.246
04-	35.1194-	109.4422-	2-	15-	0-	N09730	20330	450	9005	56	-1	6.7	4.3	-229	-1	-1	7.9	3331	59	2.5	79	0.280
04-	35.1214-	109.4436-	2-	15-	0-	N09731	11640	359	12860	37	-1	5.5	3.8	-216	-1	-1	8.5	3185	51	2.8	-48	0.273
04-	35.1067-	109.4519-	2-	11-	0-	N09733	8778	331	9391	56	-1	4.7	4.0	-185	-1	-1	7.8	3390	49	3.3	87	0.314
04-	35.0958-	109.4469-	2-	15-	0-	N09734	14840	303	7896	63	-1	5.6	4.1	-167	-1	-1	7.4	2316	42	1.8	-82	0.268
04-	35.0258-	109.4047-	2-	15-	0-	N09737	12860	267	7203	48	-1	5.2	3.5	-169	-1	-1	7.4	3043	53	3.3	56	0.280
04-	35.0531-	109.3853-	2-	15-	0-	N09739	13370	350	7348	65	-1	6.7	3.8	-180	-1	-1	8.5	3677	64	3.3	57	0.279
04-	35.0403-	109.3425-	2-	15-	0-	N09741	22100	344	5458	72	-1	9.2	4.7	249	-1	-1	10.4	3211	75	3.7	86	0.222
04-	35.0353-	109.3294-	2-	15-	0-	N09742	25690	345	4807	60	-2	9.4	5.3	-177	-1	-1	9.9	2973	80	3.8	33	0.238
04-	35.0403-	109.3542-	2-	15-	0-	N09743	21490	357	5681	60	-1	7.3	4.2	-200	-1	-1	9.3	2993	67	2.6	42	0.230
04-	35.0409-	109.3569-	2-	15-	0-	N09744	18840	399	6331	56	-1	7.3	4.3	-189	-1	-1	8.9	3300	66	2.8	80	0.246
04-	35.0417-	109.3583-	2-	15-	0-	N09745	15180	356	7776	55	-1	6.1	3.9	-173	-1	-1	8.5	3476	51	3.6	75	0.255
04-	35.0342-	109.4867-	2-	15-	0-	N09746	9612	330	8693	50	-1	4.5	3.2	-162	-1	-1	7.3	3637	63	3.3	-53	0.341
04-	35.0986-	109.4953-	2-	15-	0-	N09750	10730	406	7931	47	-1	5.2	4.1	-201	-1	-1	8.8	4521	76	2.8	48	0.385
04-	35.0794-	109.4836-	2-	15-	0-	N09751	14780	469	7616	58	-1	5.3	4.3	-198	-1	-1	9.2	5238	83	4.2	69	0.372
04-	35.0658-	109.4864-	2-	15-	0-	N09752	7706	266	8519	57	-1	4.3	3.2	-156	-1	-1	7.6	3351	49	3.0	40	0.299
04-	35.0217-	109.5458-	2-	11-	0-	N09753	21770	369	7941	73	-1	6.8	3.4	-192	-1	-1	8.0	2630	66	2.5		0.388
04-	35.0300-	109.5758-	2-	15-	0-	N09754	14370	505	8932	-18	-1	5.6	5.2	-224	-1	-1	7.2	4231	89	3.0	48	0.356
04-	35.0278-	109.5717-	2-	15-	0-	N09755	22270	727	7746	61	-2	10.3	5.5	1166	-1	-1	10.0	6799	136	3.9	105	0.398
04-	35.1375-	109.5850-	2-	15-	0-	N09756	15170	345	9423	65	-1	6.3	4.5	-182	-1	-1	8.7	2715	55	3.4	-37	0.294
04-	35.1392-	109.5786-	2-	15-	0-	N09757	9103	362	10590	43	-1	5.0	4.6	-178	-1	-1	7.9	3549	60	2.9	51	0.319
04-	35.1669-	109.5761-	2-	15-	0-	N09758	13700	512	10210	-17	-1	5.6	6.4	-221	-1	-1	7.7	4290	88	2.9	36	0.304
04-	35.1342-	109.5436-	2-	15-	0-	N09759	10120	478	7559	-18	-1	4.9	4.4	-189	-1	-1	9.1	6233	83	4.4	61	0.371
04-	35.1253-	109.5236-	2-	15-	0-	N09761	21640	402	7522	59	-1	8.2	4.8	-194	-1	-1	9.7	3524	63	3.4	77	0.247
04-	35.1697-	109.4492-	2-	15-	0-	N09762	9195	383	7215	51	-1	5.3	5.1	-164	-1	-1	8.6	4228	71	4.6		0.327
04-	35.1992-	109.4258-	2-	15-	0-	N09763	19780	379	6330	64	-1	6.8	3.7	-207	-1	-1	6.7	3221	61	2.6	47	0.284
04-	35.2039-	109.4033-	2-	15-	0-	N09764	20240	344	6633	80	-2	7.9	4.4	-196	-1	-1	7.8	3469	57	2.4	73	0.273

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
04-35.1961-109.5200-2-15-						0-N09765-10/18/78-12-			28-		-C-	-	-	-	6-1-6-5-6-	-1-	-2-3-3-2-1-	-3-	-	-	-	-										3.06
04-35.2294-109.5836-2-15-						0-N09766-10/18/78-13-			28-		-C-	-	-	-	22-1-6-5-6-	-1-	-2-3-3-2-1-	-3-	-	-	-	-										2.01
04-35.2147-109.6183-2-15-						0-N09767-10/18/78-13-			27-		-C-	-	-	-	25-1-6-5-6-	-1-	-2-3-3-2-1-	-3-	-	-	-	-										2.67
04-35.2278-109.6233-2-15-						0-N09768-10/18/78-13-			27-		-C-	-	-	-	14-1-6-5-6-	-1-	-1-3-3-2-1-	-3-	-	-	-	-										2.01
04-35.2025-109.6103-2-15-						0-N09769-10/18/78-13-			27-		-C-	-	-	-	11-1-6-5-6-	-1-	-1-3-3-1-1-	-3-	-	-	-	-										2.50
04-35.1272-109.4625-2-11-						0-N09770-10/18/78-15-			27-	19.0	-C-	-	8.2-	270-	6-1-6-5-6-2-2-1-		-3-3-2-1-	-3-	-	-	-	-										2.21
04-35.1408-109.4847-2-15-						0-N09771-10/18/78-15-			27-		-C-	-	-	-	15-1-6-5-6-	-1-	-2-3-3-1-1-	-3-	-	-	-	-										2.55
04-35.1261-109.4286-2-15-						0-N09775-10/18/78-16-			27-		-C-	-	-	-	12-1-6-5-6-	-1-	-1-3-3-2-1-	-3-	-	-	-	-										2.33
04-35.1125-109.5883-2-15-						0-N09776-10/19/78-16-			27-		-C-	-	-	-	20-1-6-5-6-	-1-	-2-3-3-1-1-	-3-	-	-	-	-										2.19
04-35.0986-109.5933-2-15-						0-N09778-10/18/78-17-			26-		-C-	-	-	-	11-1-6-5-4-	-1-	-1-3-3-2-1-	-3-	-	-	-	-										2.25
04-35.1639-109.7450-2-15-						0-N09779-10/16/78-13-			30-		-	-	-	-	9-1-6-4-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	-										1.95
04-35.1525-109.7606-2-15-						0-N09780-10/16/78-14-			30-		-	-	-	-	3-1-6-4-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	-										1.49
04-35.1322-109.7658-2-15-						0-N09781-10/16/78-14-			28-		-C-	-	-	-	3-1-6-4-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	-										1.92
04-35.1297-109.7797-2-15-						0-N09782-10/16/78-16-			27-		-	-	-	-	5-1-7-4-7-	-1-	-2-4-2-3-2-	-1-	-	-	-	-										3.61
04-35.1122-109.7753-2-15-						0-N09783-10/17/78-11-			24-		-	-	-	-	6-1-6-4-6-	-1-	-2-4-2-2-3-	-1-	-	-	-	-										2.59
04-35.1147-109.7764-2-15-						0-N09784-10/17/78-11-			24-		-	-	-	-	10-1-6-4-6-	-1-	-2-4-2-2-3-	-1-	-	-	-	-										2.83
04-35.1139-109.7781-2-15-						0-N09785-10/17/78-11-			23-		-C-	-	-	-	8-1-6-4-6-	-1-	-2-4-2-2-3-	-1-	-	-	-	-										1.91
04-35.1308-109.7919-2-15-						0-N09786-10/17/78-13-			24-		-	-	-	-	10-1-6-4-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	-										1.63
04-35.1256-109.8033-2-15-						0-N09787-10/17/78-13-			24-		-	-	-	-	11-1-6-4-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	-										2.15
04-35.0983-109.8119-2-15-						0-N09788-10/17/78-15-			23-		-	-	-	-	12-1-6-4-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	-										2.38
04-35.0956-109.8142-2-15-						0-N09789-10/17/78-15-			23-		-	-	-	-	12-1-6-4-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	-										2.99
04-35.0933-109.8044-2-15-						0-N09790-10/17/78-16-			23-		-C-	-	-	-	-1-6-4-6-	-1-	-2-3-2-2-2-	-1-	-	-	-	-										1.89
04-35.0844-109.8878-2-15-						0-N09791-10/13/78-12-			25-		-	-	-	-	9-1-6-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-										2.28
04-35.0647-109.8756-2-15-						0-N09792-10/13/78-14-			26-		-	-	-	-	12-1-6-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-										2.81
04-35.0650-109.8694-2-15-						0-N09793-10/13/78-14-			26-		-	-	-	-	10-1-6-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-										2.63
04-35.1944-109.6783-2-15-						0-N09794-10/19/78-10-			23-		-	-	-	-	8-1-6-4-6-	-1-	-2-4-3-2-2-	-1-	-	-	-	-										2.26
04-35.1928-109.6803-2-15-						0-N09795-10/19/78-10-			23-		-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-2-	-1-	-	-	-	-										2.33
04-35.1897-109.6706-2-15-						0-N09796-10/19/78-10-			23-		-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-2-	-1-	-	-	-	-										2.22
04-35.2442-109.7433-2-15-						0-N09807-10/21/78- 9-			20-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-2-2-4-	-1-	-	-	-	-										2.81
04-35.2350-109.7822-2-15-						0-N09808-10/21/78- 9-			20-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.83
04-35.2344-109.7869-2-15-						0-N09809-10/21/78- 9-			20-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.93
04-35.2239-109.7892-2-15-						0-N09810-10/21/78-10-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.98
04-35.2211-109.7883-2-15-						0-N09811-10/21/78-10-			21-		-C-	-	-	-	11-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.40
04-35.2200-109.7881-2-15-						0-N09812-10/21/78-11-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.42
04-35.2194-109.8089-2-15-						0-N09813-10/21/78-12-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.52
04-35.2178-109.8094-2-15-						0-N09814-10/21/78-11-			21-		-C-	-	-	-	11-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.38
04-35.2467-109.8242-2-15-						0-N09815-10/21/78-12-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.49
04-35.2267-109.8592-2-15-						0-N09816-10/21/78-12-			21-		-C-	-	-	-	10-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.37
04-35.2256-109.8569-2-15-						0-N09817-10/21/78-12-			21-		-C-	-	-	-	13-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.40
04-35.2008-109.8564-2-15-						0-N09818-10/21/78-12-			21-		-C-	-	-	-	14-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										3.42
04-35.1978-109.8567-2-15-						0-N09819-10/21/78-12-			21-		-	-	-	-	14-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										3.22
04-35.1906-109.8694-2-15-						0-N09820-10/21/78-13-			22-		-C-	-	-	-	13-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										3.49
04-35.2203-109.8147-2-15-						0-N09821-10/21/78-13-			21-		-C-	-	-	-	14-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.51
04-35.1356-109.8583-2-15-						0-N09822-10/21/78-15-			21-		-C-	-	-	-	16-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.15
04-35.1314-109.8789-2-15-						0-N09823-10/21/78-15-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										3.20
04-35.1253-109.9067-2-15-						0-N09824-10/21/78-15-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.15
04-35.1206-109.9231-2-15-						0-N09825-10/21/78-16-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.29
04-35.1253-109.9364-2-15-						0-N09826-10/21/78-16-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										2.97
04-35.1142-109.9608-2-15-						0-N09827-10/21/78-16-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										3.18
04-35.1131-109.9686-2-15-						0-N09828-10/21/78-16-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										1.86
04-35.1039-109.9994-2-15-						0-N09829-10/21/78-17-			21-		-C-	-	-	-	12-1-6-4-6-	-1-	-2-4-3-2-4-	-1-	-	-	-	-										4.24

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
04-	35.1961-	109.5200-	2-	15-	0-	N09765	-5	-5	-5	18	-20	-15	8	-10	-15	1	28
04-	35.2294-	109.5836-	2-	15-	0-	N09766	-5	-5	-5	26	-20	-15	-5	-10	-15	2	33
04-	35.2147-	109.6183-	2-	15-	0-	N09767	-5	6	-5	24	-20	-15	12	-10	-15	1	67
04-	35.2278-	109.6233-	2-	15-	0-	N09768	-5	-5	-5	33	-20	-15	-5	-10	-15	2	32
04-	35.2025-	109.6103-	2-	15-	0-	N09769	-5	6	-5	28	-20	-15	-5	-10	-15	1	28
04-	35.1272-	109.4625-	2-	11-	0-	N09770	-5	6	-5	31	-20	-15	7	-10	-15	1	46
04-	35.1408-	109.4847-	2-	15-	0-	N09771	-5	5	-5	19	-20	-15	6	-10	-15	1	35
04-	35.1261-	109.4286-	2-	15-	0-	N09775	-5	-5	-5	29	-20	-15	10	-10	-15	2	66
04-	35.1125-	109.5883-	2-	15-	0-	N09776	-5	-5	-5	30	-20	-15	-5	-10	-15	1	36
04-	35.0986-	109.5933-	2-	15-	0-	N09778	-5	-5	-5	35	-20	16	-5	-10	-15	1	36
04-	35.1639-	109.7450-	2-	15-	0-	N09779	-5	5	-5	33	-20	17	16	-10	-15	2	32
04-	35.1525-	109.7606-	2-	15-	0-	N09780	-5	-5	-5	33	-20	-15	6	-10	-15	1	26
04-	35.1322-	109.7658-	2-	15-	0-	N09781	-5	5	-5	28	-20	-15	6	-10	-15	1	34
04-	35.1297-	109.7797-	2-	15-	0-	N09782	-5	5	-5	28	-20	-15	6	-10	-15	1	30
04-	35.1122-	109.7753-	2-	15-	0-	N09783	-5	5	-5	35	-20	37	14	-10	-15	2	36
04-	35.1147-	109.7764-	2-	15-	0-	N09784	-5	6	-5	35	-20	19	-5	-10	-15	2	43
04-	35.1139-	109.7781-	2-	15-	0-	N09785	-5	6	-5	31	-20	21	8	-10	-15	2	33
04-	35.1308-	109.7919-	2-	15-	0-	N09786	-5	5	-5	24	-20	-15	-5	-10	-15	1	28
04-	35.1256-	109.8033-	2-	15-	0-	N09787	-5	-5	-5	25	-20	18	-5	-10	-15	2	36
04-	35.0983-	109.8119-	2-	15-	0-	N09788	-5	-5	-5	27	-20	-15	-5	-10	-15	1	43
04-	35.0956-	109.8142-	2-	15-	0-	N09789	-5	6	-5	26	-20	-15	7	-10	-15	1	26
04-	35.0933-	109.8044-	2-	15-	0-	N09790	-5	9	-5	33	-20	-15	9	-10	-15	1	33
04-	35.0844-	109.8878-	2-	15-	0-	N09791	-5	8	-5	23	-20	-15	8	-10	-15	1	21
04-	35.0647-	109.8756-	2-	15-	0-	N09792	-5	-5	-5	28	-20	-15	8	-10	-15	1	21
04-	35.0650-	109.8694-	2-	15-	0-	N09793	-5	-5	-5	22	-20	16	6	-10	-15	1	25
04-	35.1944-	109.6783-	2-	15-	0-	N09794	-5	-5	-5	20	-20	-15	-5	-10	-15	1	19
04-	35.1928-	109.6803-	2-	15-	0-	N09795	-5	-5	-5	23	-20	-15	11	-10	-15	1	21
04-	35.1897-	109.6706-	2-	15-	0-	N09796	-5	-5	-5	20	-20	-15	-5	-10	-15	1	19
04-	35.2442-	109.7433-	2-	15-	0-	N09907	-5	-5	-5	37	-20	-15	14	-10	-15	1	33
04-	35.2350-	109.7822-	2-	15-	0-	N09908	-5	5	-5	24	-20	-15	-5	-10	-15	-1	24
04-	35.2344-	109.7969-	2-	15-	0-	N09809	-5	-5	-5	29	-20	15	7	-10	-15	-1	27
04-	35.2239-	109.7892-	2-	15-	0-	N09810	-5	-5	-5	30	-20	-15	-5	-10	-15	-1	27
04-	35.2211-	109.7883-	2-	15-	0-	N09811	-5	9	-5	34	-20	-15	6	-10	-15	-1	28
04-	35.2200-	109.7881-	2-	15-	0-	N09812	-5	-5	-5	41	-20	16	-5	-10	-15	1	33
04-	35.2194-	109.8089-	2-	15-	0-	N09813	-5	6	-5	39	-20	-15	-5	-10	-15	1	29
04-	35.2178-	109.8094-	2-	15-	0-	N09814	-5	-5	-5	32	-20	24	-5	-10	-15	1	31
04-	35.2467-	109.8242-	2-	15-	0-	N09815	-5	-5	-5	29	-20	-15	8	-10	-15	1	27
04-	35.2267-	109.8592-	2-	15-	0-	N09816	-5	-5	-5	28	-20	20	-5	-10	-15	1	25
04-	35.2256-	109.8569-	2-	15-	0-	N09817	-5	-5	-5	31	-20	-15	-5	-10	-15	1	25
04-	35.2008-	109.8564-	2-	15-	0-	N09818	-5	-5	-5	21	-20	-15	9	-10	15	1	17
04-	35.1978-	109.8567-	2-	15-	0-	N09819	-5	7	-5	26	-20	-15	-5	-10	-15	1	15
04-	35.1906-	109.8694-	2-	15-	0-	N09820	-5	7	-5	17	-20	-15	10	-10	-15	1	16
04-	35.2203-	109.8147-	2-	15-	0-	N09821	-5	-5	-5	21	-20	19	-5	-10	-15	1	27
04-	35.1356-	109.8583-	2-	15-	0-	N09822	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	15
04-	35.1314-	109.8789-	2-	15-	0-	N09823										1	18
04-	35.1253-	109.9067-	2-	15-	0-	N09824	-5	-5	-5	20	-20	-15	9	-10	-15	1	18
04-	35.1206-	109.9231-	2-	15-	0-	N09825	-5	6	-5	16	-20	-15	-5	-10	-15	1	14
04-	35.1253-	109.9364-	2-	15-	0-	N09826	-5	-5	-5	20	-20	-15	-5	-10	-15	1	23
04-	35.1142-	109.9608-	2-	15-	0-	N09827	-5	5	-5	30	-20	-15	7	-10	-15	1	19
04-	35.1131-	109.9686-	2-	15-	0-	N09828	-5	-5	-5	19	-20	-15	-5	-10	-15	-1	13
04-	35.1039-	109.9994-	2-	15-	0-	N09829	-5	-5	-5	23	-20	-15	6	-10	-15	1	17

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
04-	35.1961-	109.5200-	2-	15-	0-	N09765	38440	-0.05	635	17370	67	-63	7.0	57	4.4	4	1.5	29400	34.2	14500	36	0.7
04-	35.2294-	109.5836-	2-	15-	0-	N09766	49480	-0.05	604	26110	51	-68	6.0	31	4.1	4	1.2	17580	7.6	18170	25	0.3
04-	35.2147-	109.6183-	2-	15-	0-	N09767	52900	-0.06	550	33510	56	-62	5.7	28	3.1	4	1.1	17510	8.4	20100	22	0.3
04-	35.2278-	109.6233-	2-	15-	0-	N09768	54350	-0.06	617	25500	49	-58	5.9	39	4.4	4	1.1	19450	8.0	18820	24	0.3
04-	35.2025-	109.6103-	2-	15-	0-	N09769	48460	-0.05	478	6312	69	-67	5.8	40	3.0	5	1.2	20010	16.7	17040	30	0.5
04-	35.1272-	109.4625-	2-	11-	0-	N09770	43060	-0.04	679	40200	38	-70	4.2	22	2.8	3	0.6	12500	6.2	16740	23	0.3
04-	35.1408-	109.4847-	2-	15-	0-	N09771	54410	-0.06	562	24260	65	-56	6.9	38	3.2	4	1.1	24430	14.0	17220	29	0.4
04-	35.1261-	109.4286-	2-	15-	0-	N09775	59660	-0.07	714	38560	56	-57	6.2	37	4.4	4	1.1	20940	8.3	19140	26	0.3
04-	35.1125-	109.5883-	2-	15-	0-	N09776	44170	-0.04	870	19750	53	-67	4.9	30	2.6	3	0.8	15120	9.7	14390	24	0.3
04-	35.0986-	109.5933-	2-	15-	0-	N09778	56820	-0.06	571	23850	54	-72	8.0	44	3.4	5	1.2	22940	9.1	15840	29	0.4
04-	35.1639-	109.7450-	2-	15-	0-	N09779	53880	-0.06	1099	59390	95	-88	7.1	47	2.2	5	1.7	19900	11.6	7473	37	0.4
04-	35.1525-	109.7606-	2-	15-	0-	N09780	48130	-0.06	1137	83510	71	-85	6.9	39	2.3	4	1.6	18130	6.6	10400	31	0.4
04-	35.1322-	109.7658-	2-	15-	0-	N09781	49780	-0.06	955	67150	93	-98	7.7	50	3.1	4	1.8	21250	8.6	11470	34	0.4
04-	35.1297-	109.7797-	2-	15-	0-	N09782	52700	-0.05	1252	57350	88	-100	7.3	50	2.0	5	1.8	21330	15.3	6629	39	0.4
04-	35.1122-	109.7753-	2-	15-	0-	N09783	58970	-0.07	1823	54040	83	-92	9.8	57	2.4	5	2.0	26810	12.9	9260	31	0.4
04-	35.1147-	109.7764-	2-	15-	0-	N09784	53750	-0.07	1925	57580	98	-84	9.1	51	3.5	6	1.4	28340	19.6	11160	45	0.5
04-	35.1139-	109.7781-	2-	15-	0-	N09785	53790	-0.06	726	57460	84	241	6.7	46	2.4	5	1.6	19640	7.6	12810	39	0.5
04-	35.1308-	109.7919-	2-	15-	0-	N09786	55340	-0.06	639	62850	71	504	8.1	47	3.0	4	1.4	21640	6.6	11100	31	0.3
04-	35.1256-	109.8033-	2-	15-	0-	N09787	56940	-0.06	1600	66730	83	3972	8.8	44	3.5	5	1.3	22910	9.1	7987	40	0.3
04-	35.0983-	109.8119-	2-	15-	0-	N09788	52700	-0.07	1680	59540	82	3771	8.7	46	3.7	5	1.4	24410	9.5	11570	39	0.3
04-	35.0956-	109.8142-	2-	15-	0-	N09789	44950	-0.06	2347	29120	90	-82	8.3	59	1.6	5	2.2	24310	18.1	6732	33	0.5
04-	35.0933-	109.8044-	2-	15-	0-	N09790	57850	-0.08	456	64990	54	459	9.1	40	3.7	4	1.3	22380	5.2	12290	32	0.3
04-	35.0844-	109.8878-	2-	15-	0-	N09791	38940	-0.05	1037	33360	60	-72	5.2	35	-0.8	4	0.9	15870	14.3	11760	31	0.4
04-	35.0647-	109.8756-	2-	15-	0-	N09792	39950	-0.05	1572	31940	63	-77	6.0	26	2.1	4	0.9	18400	13.3	9490	33	0.4
04-	35.0650-	109.8694-	2-	15-	0-	N09793	42440	-0.05	1370	33490	65	-88	5.5	28	1.4	4	1.4	16020	11.0	9735	33	0.4
04-	35.1944-	109.6783-	2-	15-	0-	N09794	38930	-0.05	629	34490	66	-72	5.0	37	2.3	4	1.3	15750	16.1	13040	30	0.3
04-	35.1928-	109.6803-	2-	15-	0-	N09795	38170	-0.05	809	32820	67	-67	4.5	35	1.8	4	1.3	15360	16.1	12930	29	0.4
04-	35.1897-	109.6706-	2-	15-	0-	N09796	38950	-0.04	678	33450	60	-64	4.7	36	1.6	4	1.3	14980	15.2	14550	23	0.3
04-	35.2442-	109.7433-	2-	15-	0-	N09807	38940	-0.06	1320	59890	73	-85	5.5	46	2.5	5	1.6	18410	16.1	9376	32	0.4
04-	35.2350-	109.7822-	2-	15-	0-	N09808	39090	-0.07	1324	66030	73	-88	7.5	52	2.5	6	1.0	20440	18.7	11230	39	0.5
04-	35.2344-	109.7869-	2-	15-	0-	N09809	39250	-0.06	1245	67820	90	-81	6.5	55	2.0	5	1.9	20760	20.5	10370	38	0.5
04-	35.2239-	109.7892-	2-	15-	0-	N09810	38040	-0.06	1418	63700	72	-77	7.1	53	2.4	6	1.9	22150	20.5	10010	42	0.5
04-	35.2211-	109.7883-	2-	15-	0-	N09811	41270	-0.07	650	72110	64	-93	5.7	39	2.1	5	1.3	14750	10.1	8965	24	0.3
04-	35.2200-	109.7881-	2-	15-	0-	N09812	42190	-0.08	823	79040	69	-95	7.5	45	2.8	5	1.6	18460	11.1	10610	35	0.4
04-	35.2194-	109.8089-	2-	15-	0-	N09813	39760	-0.06	994	71990	80	-83	6.1	50	2.1	5	1.6	18050	13.4	12310	38	0.4
04-	35.2178-	109.8094-	2-	15-	0-	N09814	40560	-0.06	830	71120	71	-79	5.9	53	3.1	5	1.6	17630	11.5	10280	34	0.4
04-	35.2467-	109.8242-	2-	15-	0-	N09815	39240	-0.07	1000	66980	73	-86	5.4	44	2.5	5	1.4	15250	12.2	11590	34	0.4
04-	35.2267-	109.8592-	2-	15-	0-	N09816	41880	-0.07	806	75320	67	-93	6.4	38	2.8	5	1.6	17860	10.7	9131	29	0.4
04-	35.2256-	109.8569-	2-	15-	0-	N09817	44670	-0.07	696	77220	75	-91	6.5	51	2.3	5	1.4	16930	10.6	10440	33	0.4
04-	35.2008-	109.8564-	2-	15-	0-	N09818	33590	-0.06	2050	53660	86	-72	6.7	51	1.7	5	1.2	25630	29.6	9602	42	0.6
04-	35.1978-	109.8567-	2-	15-	0-	N09819	36290	-0.06	1551	42940	77	-77	5.9	44	2.0	6	1.6	21460	22.6	11360	30	0.5
04-	35.1906-	109.8694-	2-	15-	0-	N09820	37540	-0.07	1509	48870	77	-80	6.3	50	2.8	5	1.1	25950	27.4	11670	37	0.5
04-	35.2203-	109.8147-	2-	15-	0-	N09821	41830	-0.06	793	76280	75	-85	6.3	54	-1.1	5	1.6	18120	12.4	9583	33	0.4
04-	35.1356-	109.8583-	2-	15-	0-	N09822	33710	-0.05	796	32430	52	-62	3.9	37	1.8	4	1.2	14200	14.7	11610	24	0.4
04-	35.1314-	109.8789-	2-	15-	0-	N09823	39120	-0.06	905	45500	85	-77	6.4	50	2.1	5	1.5	23840	23.7	9436	33	0.5
04-	35.1253-	109.9067-	2-	15-	0-	N09824	38010	-0.05	686	33730	47	-71	4.6	26	2.0	4	1.1	14740	11.6	15400	27	0.4
04-	35.1206-	109.9231-	2-	15-	0-	N09825	35470	-0.05	724	34490	62	-66	4.6	40	1.3	4	1.3	14650	16.3	11110	32	0.5
04-	35.1253-	109.9364-	2-	15-	0-	N09826	43830	-0.06	782	34020	68	135	6.6	44	3.0	5	1.4	25460	22.2	17220	31	0.5
04-	35.1142-	109.9608-	2-	15-	0-	N09827	45210	-0.07	997	29020	71	-72	6.6	43	3.4	5	1.4	29110	23.6	16930	31	0.5
04-	35.1131-	109.9686-	2-	15-	0-	N09828	34810	-0.05	688	36020	46	-74	3.5	22	1.8	4	1.1	11450	10.6	14510	18	0.3
04-	35.1039-	109.9994-	2-	15-	0-	N09829	39720	-0.07	1457	41190	105	-71	8.6	65	2.5	4	2.0	44350	41.3	14240	35	0.7

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	
04-35.1961-109.5200-2-15-						0-N09765	9039	442	7194	48	-1	5.6	4.6	-179	1	-1	9.6	5316	76	5.1	-66	0.319
04-35.2294-109.5836-2-15-						0-N09766	15020	375	8190	54	-1	5.7	3.4	-175	-1	-1	7.1	2766	44	2.8	64	0.283
04-35.2147-109.6183-2-15-						0-N09767	20030	435	7176	73	-1	6.1	3.8	-215		-1	7.7	3119	61	3.0	59	0.347
04-35.2278-109.6233-2-15-						0-N09768	17910	448	7153	51	-1	6.5	3.9	-201	-1	-1	7.5	3077	53	2.6	66	0.268
04-35.2025-109.6103-2-15-						0-N09769	10900	399	8941	67	-1	6.1	5.0	-184	-1	1	9.5	4191	45	4.4	-56	0.263
04-35.1272-109.4625-2-11-						0-N09770	10830	249	9840	62	-1	3.8	3.4	364	-1	-1	6.2	2172	35	2.3	62	0.356
04-35.1408-109.4847-2-15-						0-N09771	19560	442	6292	63	-1	6.7	4.5	-205	-1	-1	9.6	4176	80	2.8	57	0.266
04-35.1261-109.4286-2-15-						0-N09775	25270	410	6902	61	-1	7.5	4.0	354	-1	-1	8.4	3210	65	2.4	135	0.277
04-35.1125-109.5883-2-15-						0-N09776	8841	307	10590	47	-1	4.5	4.0	222	-1		6.7	2950	47	2.8	47	0.327
04-35.0986-109.5933-2-15-						0-N09778	19980	482	8513	61	-1	7.4	4.5	-197	-1	-1	9.0	3415	53	2.6	154	0.250
04-35.1639-109.7450-2-15-						0-N09779	22560	740	14450	45	-1	6.4	7.3	-283	-1	-1	8.2	3177	76	3.6	49	0.238
04-35.1525-109.7606-2-15-						0-N09780	17460	946	12140	40	-1	6.5	6.3	583	-1	-1	7.4	2969	60	2.4	48	0.201
04-35.1322-109.7658-2-15-						0-N09781	20560	821	12400	-19	-1	7.7	7.0	386	-1	-1	8.0	3289	65	3.8	87	0.240
04-35.1297-109.7797-2-15-						0-N09782	25270	777	15320	44	-1	6.8	6.7	-254	-1	-1	9.1	3939	70	4.3	78	0.397
04-35.1122-109.7753-2-15-						0-N09783	24340	792	13950	42	-2	7.8	6.6	-301	-1	-1	8.5	4885	108	2.7		0.305
04-35.1147-109.7764-2-15-						0-N09784	24230	706	10680	-24	-2	8.6	8.1	761	-1	-1	11.2	5273	106	5.2	50	0.253
04-35.1139-109.7781-2-15-						0-N09785	24630	742	13200	-19	-1	7.6	6.0	415	-1	-1	8.4	3101	58	4.0	47	0.227
04-35.1308-109.7919-2-15-						0-N09786	25290	742	14090	47	-1	7.9	5.7	470	-1	-1	8.3	3421	55	2.7	-35	0.196
04-35.1256-109.8033-2-15-						0-N09787	25300	939	15970	69	-2	7.7	6.6	553	-1	-1	8.0	3525	78	3.7	39	0.269
04-35.0983-109.8119-2-15-						0-N09788	22940	835	14140	71	-2	8.4	6.5	-292	-1	-1	8.9	2892	83	3.1	114	0.267
04-35.0956-109.8142-2-15-						0-N09789	14400	686	11560	-17	-1	5.7	7.0	-224	1	-1	10.5	4560	96	3.6	52	0.285
04-35.0933-109.8044-2-15-						0-N09790	28360	728	12020	-22	-2	8.4	4.8	-269	-1	-1	8.1	3110	56	3.0	59	0.233
04-35.0844-109.8878-2-15-						0-N09791	9362	635	11220	35	-1	4.2	4.4	-233	1	-1	7.0	2435	52	3.9	34	0.326
04-35.0647-109.8756-2-15-						0-N09792	11480	931	11730	44	-1	4.7	4.9	-257	-1	1	8.3	3053	48	3.9	51	0.339
04-35.0650-109.8694-2-15-						0-N09793	12190	852	12290	39	-1	4.3	4.7	-252	-1	-1	8.6	2995	49	2.5	59	0.306
04-35.1944-109.6783-2-15-						0-N09794	8634	536	10240	-16	-1	4.2	4.9	376	-1	1	7.3	3249	53	3.1	46	0.310
04-35.1928-109.6803-2-15-						0-N09795	8595	554	10320	43	-1	4.1	4.5	372	-1	-1	7.3	3003	51	3.6	41	0.319
04-35.1897-109.6706-2-15-						0-N09796	9615	534	10110	53	-1	4.0	5.4	400	-1		6.7	3456	55	2.9	58	0.331
04-35.2442-109.7433-2-15-						0-N09807	13880	782	9399	-18	-1	5.0	6.2	-251	-1	-1	8.7	4267	70	3.4	29	0.323
04-35.2350-109.7822-2-15-						0-N09808	14060	779	9744	-21	-2	5.8	6.7	-253	-1	-1	10.3	4363	70	2.9	31	0.275
04-35.2344-109.7869-2-15-						0-N09809	19170	784	9485	38	-1	6.1	7.1	-285	-1	-1	10.1	3988	70	4.8	57	0.290
04-35.2239-109.7892-2-15-						0-N09810	15450	800	9578	50	-1	6.0	6.5	360	-1	-1	9.8	4323	72	3.2	75	0.304
04-35.2211-109.7883-2-15-						0-N09811	17450	774	9966	34	-1	5.0	5.2	-269	-1	-1	7.2	3456	61	3.7	57	0.333
04-35.2200-109.7881-2-15-						0-N09812	20030	770	9955	59	-2	6.6	5.7	513	-1	-1	8.6	3015	64	3.8	63	0.281
04-35.2194-109.8089-2-15-						0-N09813	15610	764	9808	59	-1	6.0	5.9	-296	-1	-1	8.2	3463	60	3.7	76	0.307
04-35.2178-109.8094-2-15-						0-N09814	14450	754	9765	-19	-1	5.4	6.4	-272	-1	-1	9.0	4294	55	3.6	52	0.264
04-35.2467-109.8242-2-15-						0-N09815	17820	775	9778	33	-1	5.2	5.9	-262	-1	-1	7.7	4070	66	3.2	-27	0.323
04-35.2267-109.8592-2-15-						0-N09816	16020	749	9853	54	-2	6.1	5.2	-261	-1	-1	8.8	3380	54	2.4	28	0.269
04-35.2256-109.8569-2-15-						0-N09817	18640	787	10440	38	-2	6.3	5.4	-314	-1	-1	8.0	3575	56	3.8	39	0.300
04-35.2008-109.8564-2-15-						0-N09818	12310	672	8924	-19	-1	5.8	6.9	-250	-1	-1	10.5	5451	88	5.5	79	0.326
04-35.1978-109.8567-2-15-						0-N09819	13730	709	8554	-17	-1	4.8	6.2	345	-1	-1	9.3	5230	84	3.6	44	0.346
04-35.1906-109.8694-2-15-						0-N09820	10890	747	8813	-20	-2	5.6	6.0	-238	-1	-1	9.7	4622	81	4.5	69	0.360
04-35.2203-109.8147-2-15-						0-N09821	18370	771	9958	43	-2	6.1	6.4	-300	-1	-1	8.6	3487	59	4.5	52	0.292
04-35.1356-109.8583-2-15-						0-N09822	10340	456	9094	39	-1	3.7	3.8	-200	-1	1	6.4	3487	47	3.0	36	0.336
04-35.1314-109.8789-2-15-						0-N09823	12660	751	9469	-17	-1	5.5	6.5	-242	-1	-1	10.2	4897	78	4.6	32	0.314
04-35.1253-109.9067-2-15-						0-N09824	11350	442	9193	54	-1	4.2	4.3	276	-1	-1	6.5	2627	45	3.1	37	0.331
04-35.1206-109.9231-2-15-						0-N09825	9067	468	9632	43	-1	4.0	4.6	-211	-1	-1	7.1	3078	46	3.8	73	0.323
04-35.1253-109.9364-2-15-						0-N09826	14280	629	7479	46	-1	6.4	5.3	-237	-1	-1	9.2	5195	74	3.8	-56	0.323
04-35.1142-109.9608-2-15-						0-N09827	13230	677	7182	36	-2	5.8	5.3	-230	2	-1	9.9	5293	90	3.5	-57	0.321
04-35.1131-109.9686-2-15-						0-N09828	8717	432	10100	53	-1	3.5	3.9	-186	-1		5.2	2299	39	2.6	38	0.358
04-35.1039-109.9994-2-15-						0-N09829	12970	966	8003	39	-1	6.4	6.2	-232	-1	-1	12.0	6910	129	5.7	72	0.353

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
04-	35.0014-	109.9878-	2-	15-		0-N09830-	10/21/78-	17-	21-		-C-	-	-	-	-	14-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	2.79
04-	35.0006-	109.9769-	2-	15-		0-N09831-	10/21/78-	17-	21-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	3.25
04-	35.0361-	109.9389-	2-	15-		0-N09832-	10/21/78-	18-	21-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	3.46
04-	35.0328-	109.9389-	2-	15-		0-N09833-	10/21/78-	18-	21-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	2.86
04-	35.0106-	109.9444-	2-	15-		0-N09834-	10/21/78-	18-	21-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	3.41
04-	35.0008-	109.9475-	2-	15-		0-N09835-	10/21/78-	19-	21-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	2.93
04-	35.1597-	109.6842-	2-	15-		0-N09836-	10/22/78-	10-	21-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	1.82
04-	35.1353-	109.6789-	2-	15-		0-N09837-	10/22/78-	10-	21-		-C-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	1.85
04-	35.1256-	109.7094-	2-	15-		0-N09838-	10/22/78-	11-	21-		-C-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	1.89
04-	35.1097-	109.6894-	2-	15-		0-N09839-	10/21/78-	11-	21-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	1.88
04-	35.0883-	109.6947-	2-	15-		0-N09840-	10/22/78-	11-	21-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	4-	-1-	-	-	-	-	-	-	2.83
04-	35.0631-	109.7289-	2-	15-		0-N09841-	10/25/78-	9-	23-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	2-	-1-	-	-	-	-	-	-	1.84
04-	35.0597-	109.7342-	2-	15-		0-N09842-	10/25/78-	10-	23-		-	-	-	-	-	13-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	2-	-1-	-	-	-	-	-	-	2.42
04-	35.0375-	109.7533-	2-	15-		0-N09843-	10/25/78-	11-	23-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	2-	-1-	-	-	-	-	-	-	3.10
04-	35.0372-	109.7608-	2-	15-		0-N09844-	10/25/78-	12-	22-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	2-	-1-	-	-	-	-	-	-	2.81
04-	35.0283-	109.7672-	2-	15-		0-N09845-	10/25/78-	13-	22-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	2-	-1-	-	-	-	-	-	-	2.91
04-	35.0011-	109.7775-	2-	15-		0-N09846-	10/25/78-	14-	21-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	2-	-1-	-	-	-	-	-	-	2.63
04-	35.0128-	109.7339-	2-	15-		0-N09847-	10/25/78-	14-	20-		-C-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-2-	4-	3-	2-	2-	-1-	-	-	-	-	-	-	2.29
04-	35.9039-	109.4233-	2-	12-		0-N09848-	10/19/78-	11-	24-	18.0-	C-	-	7.6-	320-	-	9-	1-	6-	4-	6-	3-	3-	2-	2-	1-	3-	3-	1-	-3-	-	-	-	-	-	3.82
04-	35.9006-	109.3850-	2-	15-		0-N09849-	10/18/78-	8-	15-		-	-	-	-	-	8-	1-	4-	4-	4-	-1-	-2-	4-	3-	3-	2-	-3-	-	-	-	-	-	-	1.56
04-	35.9078-	109.3411-	2-	15-		0-N09850-	10/18/78-	9-	16-		-	-	-	-	-	6-	1-	4-	4-	4-	-1-	-2-	1-	3-	3-	2-	-3-	-	-	-	-	-	-	1.92
04-	35.8803-	109.3014-	2-	99-		0-N09851-	10/19/78-	13-	28-		-C-	-	-	-	-	19-	1-	6-	4-	6-	-1-	-	-	4-	4-	3-	1-	-3-	-	-	-	-	-	-	3.42
04-	35.8094-	109.0425-	2-	15-		0-N09852-	10/19/78-	14-	28-		-	-	-	-	-	6-	1-	4-	4-	4-	-1-	-	-	3-	3-	2-	1-	-3-	-	-	-	-	-	-	1.36
04-	35.7989-	108.9806-	2-	99-		0-N09853-	11/19/78-	15-	27-		-C-	-	-	-	-	31-	1-	2-	4-	6-	-1-	-	-	1-	3-	3-	1-	-1-	-	-	-	-	-	-	5.54
04-	35.7589-	108.9678-	2-	15-		0-N09854-	10/19/78-	16-	28-		-C-	-	-	-	-	6-	1-	6-	5-	6-	-1-	-2-	1-	4-	4-	2-	-3-	-	-	-	-	-	-	4.48
04-	35.7569-	108.9608-	2-	15-		0-N09855-	10/18/78-	16-	28-		-C-	-	-	-	-	6-	1-	6-	5-	6-	-1-	-2-	1-	4-	4-	2-	-3-	-	-	-	-	-	-	5.47

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

(2)

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
04-	35.0014-	109.9878-	2-	15-	0-	N09830	-5	-5	-5	23	-20	-15	11	-10	-15	1	19
04-	35.0006-	109.9769-	2-	15-	0-	N09831	-5	6	-5	26	-20	-15	6	-10	-15	1	20
04-	35.0361-	109.9389-	2-	15-	0-	N09832	-5	-5	6	21	-20	-15	8	-10	-15	2	19
04-	35.0328-	109.9389-	2-	15-	0-	N09833	-5	-5	-5	22	-20	-15	6	-10	-15	2	23
04-	35.0106-	109.9444-	2-	15-	0-	N09834	-5	5	-5	27	-20	15	15	-10	-15	2	20
04-	35.0008-	109.9475-	2-	15-	0-	N09835	-5	8	-5	29	-20	-15	13	-10	-15	1	24
04-	35.1597-	109.6842-	2-	15-	0-	N09836	-5	-5	-5	25	-20	-15	10	-10	-15	1	19
04-	35.1353-	109.6789-	2-	15-	0-	N09837	-5	-5	-5	25	-20	-15	5	-10	-15	1	25
04-	35.1256-	109.7094-	2-	15-	0-	N09838	-5	-5	-5	22	-20	-15	-5	-10	-15	1	18
04-	35.1097-	109.6894-	2-	15-	0-	N09839	-5	5	-5	29	-20	-15	-5	-10	-15	1	18
04-	35.0883-	109.6947-	2-	15-	0-	N09840	-5	-5	-5	17	-20	-15	-5	-10	-15	1	17
04-	35.0631-	109.7289-	2-	15-	0-	N09841	-5	-5	-5	27	-20	-15	-5	-10	-15	1	17
04-	35.0597-	109.7342-	2-	15-	0-	N09842	-5	5	-5	26	-20	-15	10	-10	-15	1	18
04-	35.0375-	109.7533-	2-	15-	0-	N09843	-5	5	-5	21	-20	-15	6	-10	-15	1	20
04-	35.0372-	109.7608-	2-	15-	0-	N09844	-5	5	-5	24	-20	-15	-5	-10	-15	-1	19
04-	35.0283-	109.7672-	2-	15-	0-	N09845	-5	8	-5	31	-20	27	5	-10	-15	-1	21
04-	35.0011-	109.7775-	2-	15-	0-	N09846	-5	-5	-5	38	-20	18	5	-10	-15	1	22
04-	35.0128-	109.7339-	2-	15-	0-	N09847	-5	-5	-5	33	-20	21	8	-10	-15	1	23
04-	35.9039-	109.4233-	2-	12-	0-	N09848	-5	8	-5	15	-20	15	8	-10	-15	2	21
04-	35.9006-	109.3850-	2-	15-	0-	N09849	-5	-5	-5	21	-20	40	-5	-10	-15	1	10
04-	35.9078-	109.3411-	2-	15-	0-	N09850	-5	-5	-5	23	-20	19	-5	-10	-15	1	12
04-	35.8803-	109.3014-	2-	99-	0-	N09851	-5	7	-5	21	-20	-15	10	-10	-15	1	19
04-	35.8094-	109.0425-	2-	15-	0-	N09852	-5	-5	-5	18	-20	-15	8	-10	-15	1	16
04-	35.7989-	108.9806-	2-	99-	0-	N09853	-5	-5	-5	13	-20	-15	13	-10	-15	1	36
04-	35.7589-	108.9678-	2-	15-	0-	N09854	-5	-5	-5	28	-20	-15	8	-10	-15	1	14
04-	35.7569-	108.9608-	2-	15-	0-	N09855	-5	6	-5	19	-20	-15	7	-10	-15	1	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
04-	35.0014-	109.9878-2-	15-			0-N09830	55140	-0.06	536	48020	70	-96	5.1	20	3.3	5	1.2	15260	6.7	10260	28	0.3
04-	35.0006-	109.9769-2-	15-			0-N09831	53000	-0.07	1079	51200	65	-100	7.0	37	3.8	5	1.7	20260	12.4	10480	45	0.5
04-	35.0361-	109.9389-2-	15-			0-N09832	52430	-0.07	883	49130	96	-87	6.9	32	4.1	5	1.7	21790	15.4	12730	37	0.5
04-	35.0328-	109.9389-2-	15-			0-N09833	51220	-0.06	630	47110	70	-83	6.2	24	3.9	5	1.4	18580	9.4	11090	36	0.4
04-	35.0106-	109.9444-2-	15-			0-N09834	53060	-0.07	995	47810	76	-97	6.0	31	3.3	6	1.4	18150	13.1	10490	33	0.4
04-	35.0008-	109.9475-2-	15-			0-N09835	53470	-0.07	681	48560	66	-95	6.8	19	3.7	5	1.4	17580	9.8	12700	36	0.4
04-	35.1597-	109.6842-2-	15-			0-N09836	41210	-0.06	1152	66800	80	-79	5.9	36	2.9	4	1.8	17680	11.0	9634	36	0.3
04-	35.1353-	109.6789-2-	15-			0-N09837	42510	-0.06	866	68760	75	-75	6.6	41	2.3	4	1.7	17020	10.3	8643	35	0.3
04-	35.1256-	109.7094-2-	15-			0-N09838	44820	-0.06	805	64490	67	-89	4.5	36	2.0	5	1.5	13510	9.2	9873	30	0.3
04-	35.1097-	109.6894-2-	15-			0-N09839	42050	-0.07	676	73090	67	-92	5.5	35	1.7	5	1.5	14830	8.8	8916	31	0.4
04-	35.0883-	109.6947-2-	15-			0-N09840	42130	-0.05	527	26520	58	-62	5.1	41	-0.9	4	1.1	18340	22.8	17250	25	0.4
04-	35.0631-	109.7289-2-	15-			0-N09841	35940	-0.05	871	60180	68	-70	4.7	37	2.1	4	1.6	14550	9.4	8716	26	0.4
04-	35.0597-	109.7342-2-	15-			0-N09842	39330	-0.06	1282	45380	85	-83	5.8	50	1.4	5	1.7	18690	17.6	7741	28	0.4
04-	35.0375-	109.7533-2-	15-			0-N09843	37800	-0.07	1451	62690	98	-90	6.0	61	2.2	7	2.2	20720	23.9	10210	42	0.6
04-	35.0372-	109.7608-2-	15-			0-N09844	44710	-0.06	1087	46470	86	-78	8.3	63	2.3	5	1.8	22970	17.8	10030	38	0.5
04-	35.0283-	109.7672-2-	15-			0-N09845	44770	-0.07	1126	54690	88	-80	7.8	59	2.3	6	2.0	20990	17.9	9141	39	0.5
04-	35.0011-	109.7775-2-	15-			0-N09846	49610	-0.07	985	40380	80	-85	8.4	56	2.8	5	1.6	20820	13.4	8480	26	0.4
04-	35.0128-	109.7339-2-	15-			0-N09847	46680	-0.06	1556	43140	67	-83	8.5	67	2.0	5	1.3	22230	12.2	11420	31	0.4
04-	35.9039-	109.4233-2-	12-			0-N09848	59300	-0.07	2029	20950	82	-51	10.1	68	5.0	5	1.0	33380	25.9	14240	40	0.6
04-	35.9006-	109.3850-2-	15-			0-N09849	19340	-0.04	403	10810	47	-33	4.8	51	1.0	2	1.0	9114	4.7	8226	25	0.1
04-	35.9078-	109.3411-2-	15-			0-N09850	25990	-0.05	448	13590	54	-46	4.2	49	1.1	3	1.1	9638	9.0	14720	23	0.2
04-	35.8803-	109.3014-2-	99-			0-N09851	47980	-0.06	363	7223	58	-81	6.3	30	2.9	4	1.1	16560	16.9	13410	33	0.4
04-	35.8094-	109.0425-2-	15-			0-N09852	34510	-0.03	363	11030	22	-52	2.5	19	-0.7	2	0.4	7947	10.1	16890	11	0.2
04-	35.7989-	108.9806-2-	99-			0-N09853	47690	-0.04	409	35930	70	39130	7.1	31	5.9	5	2.2	16130	29.0	16630	30	0.6
04-	35.7589-	108.9678-2-	15-			0-N09854	44930	-0.06	520	3107	76	-53	4.5	34	2.9	6	1.0	10450	30.8	20090	30	0.6
04-	35.7569-	108.9608-2-	15-			0-N09855	41780	-0.06	517	3558	84	-52	4.9	39	3.1	7	1.4	11700	43.2	20400	39	0.8

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	
04-	35.0014-	109.9878-	2-	15-	0-	N09830	20430	850	11190	51	-1	5.0	4.7	-281	-1	-1	9.0	2683	41	3.4	-35	0.310
04-	35.0006-	109.9769-	2-	15-	0-	N09831	16230	899	10700	-22	-2	6.3	5.7	-287	-1	-1	11.0	3114	48	3.7	118	0.295
04-	35.0361-	109.9389-	2-	15-	0-	N09832	15390	875	10200	69	-2	6.3	5.2	-320	-1	-1	10.8	2970	43	4.4	63	0.320
04-	35.0328-	109.9389-	2-	15-	0-	N09833	17490	842	11060	54	-1	5.9	6.1	-285	-1	-1	11.6	2848	34	4.1	55	0.247
04-	35.0106-	109.9444-	2-	15-	0-	N09834	19580	907	10840	-19	-2	5.3	5.8	-294	-1	-1	10.5	3107	43	4.1	46	0.325
04-	35.0008-	109.9475-	2-	15-	0-	N09835	16830	833	11540	-21	-2	5.9	5.1	-267	2	1	9.7	2387	41	4.6	75	0.302
04-	35.1597-	109.6842-	2-	15-	0-	N09836	19620	755	9864	39	-1	5.7	5.5	-270	-1	-1	6.7	2436	65	2.4	-35	0.272
04-	35.1353-	109.6789-	2-	15-	0-	N09837	20220	751	10020	54	-1	5.9	6.2	-255	-1	-1	8.3	3154	57	3.1	61	0.223
04-	35.1256-	109.7094-	2-	15-	0-	N09838	21610	772	10110	-17	-1	4.9	5.2	-257	-1	-1	6.8	3132	64	3.4	48	0.278
04-	35.1097-	109.6894-	2-	15-	0-	N09839	14980	756	10410	61	-2	5.6	5.9	-253	-1	-1	7.7	3014	55	3.3	39	0.244
04-	35.0883-	109.6947-	2-	15-	0-	N09840	11550	358	8382	58	-1	4.9	4.6	-203	-1	1	9.3	3797	59	4.4	42	0.304
04-	35.0631-	109.7289-	2-	15-	0-	N09841	15020	669	9632	-15	-1	4.7	6.2	-238	-1	-1	7.9	2448	48	3.8	44	0.233
04-	35.0597-	109.7342-	2-	15-	0-	N09842	12930	640	11980	-16	-1	4.3	6.8	285	-1	1	7.7	4874	83	3.4	74	0.314
04-	35.0375-	109.7533-	2-	15-	0-	N09843	13660	904	10200	35	-2	5.0	8.8	-256	-1	-1	11.3	4835	82	6.0	49	0.274
04-	35.0372-	109.7608-	2-	15-	0-	N09844	14790	689	10590	-20	-1	6.7	6.4	-268	-1	1	8.5	4509	74	4.0	35	0.331
04-	35.0283-	109.7672-	2-	15-	0-	N09845	19130	755	10370	43	-2	6.7	8.1	-272	2	-1	10.3	4634	79	4.4	-21	0.283
04-	35.0011-	109.7775-	2-	15-	0-	N09846	19470	665	10690	48	-1	6.2	6.1	-242	-1	-1	8.7	4189	74	3.2	34	0.302
04-	35.0128-	109.7339-	2-	15-	0-	N09847	15100	622	10250	45	-1	6.3	5.8	-230	-1	-1	8.4	4105	80	3.8	33	0.273
04-	35.9039-	109.4233-	2-	12-	0-	N09848	18580	518	3915	83	-2	9.0	6.3	-217	-1	-1	12.9	4606	65	5.8	-71	0.296
04-	35.9006-	109.3850-	2-	15-	0-	N09849	14340	166	2770	-12	-1	4.1	4.7	-116	-1		6.7	1765	29	-0.7	60	0.233
04-	35.9078-	109.3411-	2-	15-	0-	N09850	16340	212	4360	27	-1	4.2	5.2	277	-1	-1	6.4	2547	28	2.6	38	0.300
04-	35.8803-	109.3014-	2-	99-	0-	N09851	11880	781	7626	58	-1	5.2	4.7	-252	-1	-1	9.2	3225	38	4.3	41	0.372
04-	35.8094-	109.0425-	2-	15-	0-	N09852	13390	224	7728	36	-1	2.7	1.7	-161	-1		3.2	1823	22	1.6	25	0.425
04-	35.7989-	108.9806-	2-	99-	0-	N09853	35160	131	25290	49	-1	8.1	5.4	-313	2	-1	15.6	2836	29	4.5	84	0.355
04-	35.7589-	108.9678-	2-	15-	0-	N09854	6414	331	5174	63	-1	4.8	5.8	-163	2	-1	12.8	4343	46	5.2	-35	0.350
04-	35.7569-	108.9608-	2-	15-	0-	N09855	5592	293	4963	59	-1	5.8	5.9	-154	-1	-1	16.5	4720	44	5.9	68	0.332

APPENDIX II

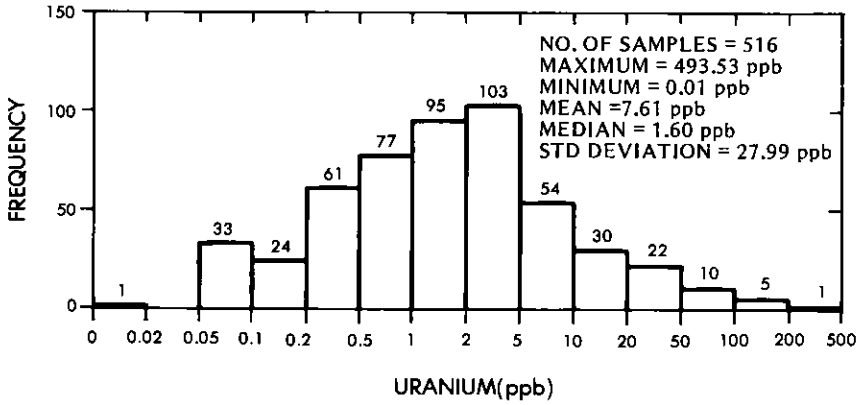
HISTOGRAMS OF URANIUM CONCENTRATIONS IN WATER AND SEDIMENT SAMPLES AND THORIUM CONCENTRATIONS IN SEDIMENT SAMPLES FROM THE GALLUP NTMS QUADRANGLE, NEW MEXICO/ARIZONA

APPENDIX II-A

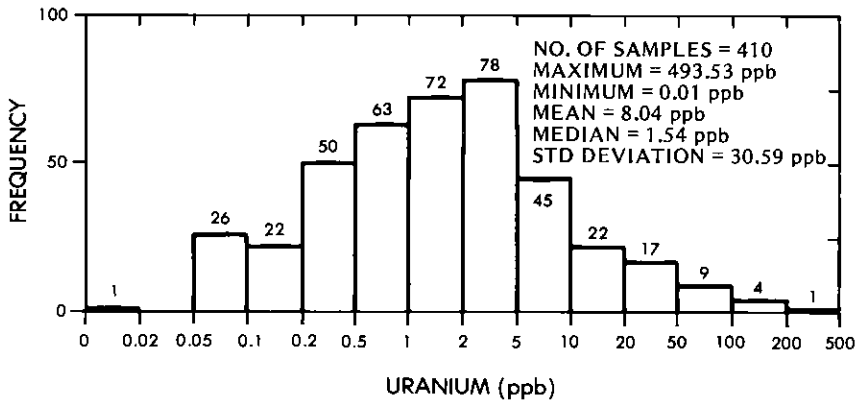
Semilogarithmic Histograms of Uranium Concentrations in Water Samples from the Gallup Quadrangle, New Mexico/Arizona

APPENDIX II-A

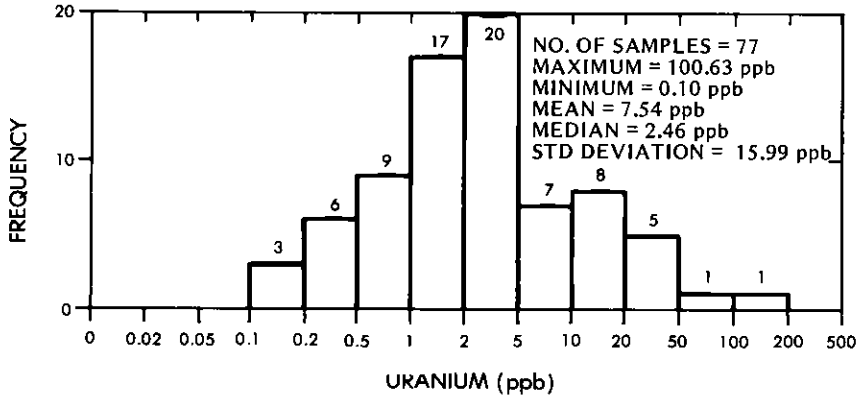
SEMILOGARITHMIC HISTOGRAMS OF URANIUM CONCENTRATIONS IN WATER SAMPLES FROM THE GALLUP QUADRANGLE, NEW MEXICO/ARIZONA



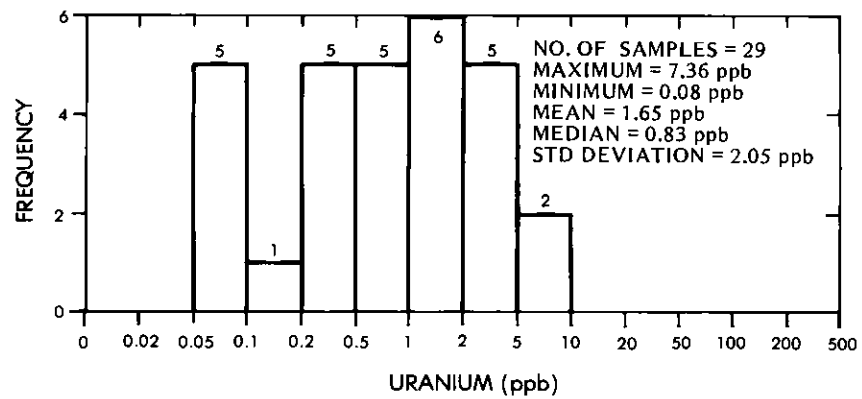
a. All waters



b. Well waters



c. Spring waters



d. Stream waters

NOTE : Samples collected during the 1976 and 1977 field seasons were analyzed to a lower detection limit of 0.20 ppb (reported in Appendix I-A as 0.10 ppb).

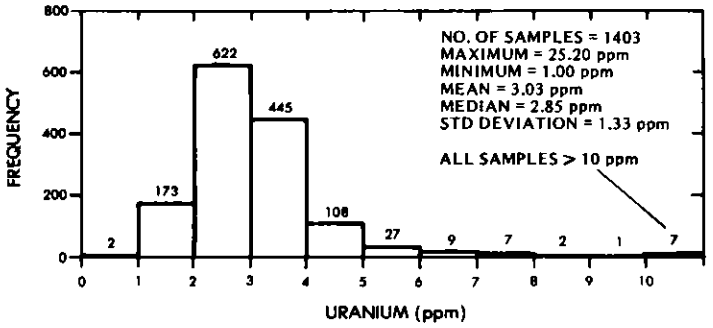
Samples collected during the 1978 and 1979 field seasons were analyzed to a lower detection limit of 0.02 ppb (reported in Appendix I-A as 0.01 ppb).

APPENDIX II-B

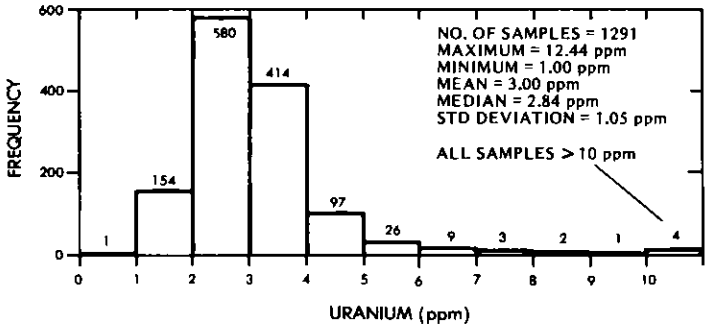
Histograms of Uranium Concentrations in Sediment Samples from the Gallup Quadrangle, New Mexico/Arizona

APPENDIX II-B

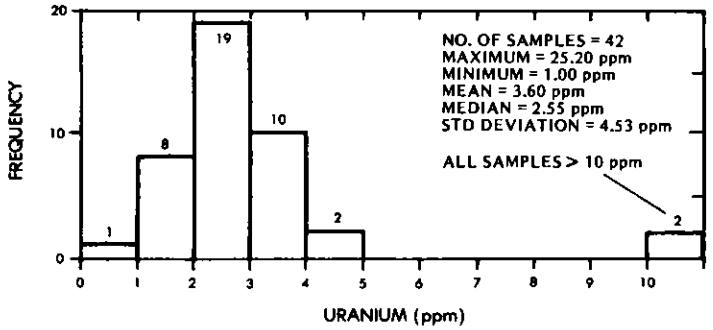
HISTOGRAMS OF URANIUM CONCENTRATIONS IN SEDIMENT SAMPLES FROM THE GALLUP QUADRANGLE,NEW MEXICO/ARIZONA



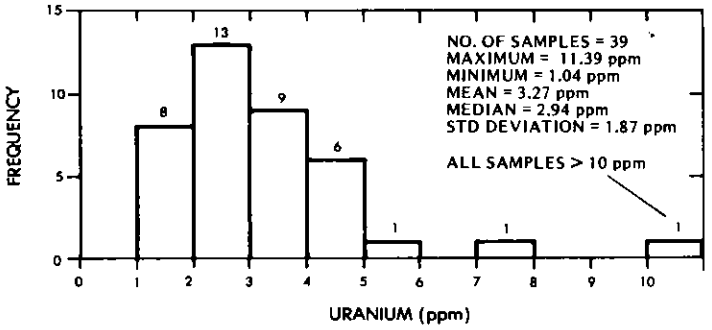
a. All sediments



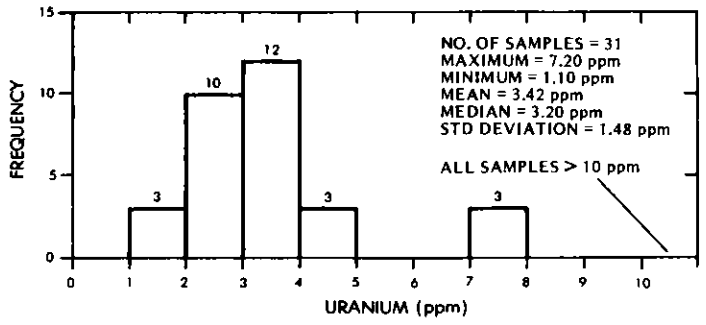
b. Dry stream sediments



c. Wet spring sediments



d. Dry spring sediments



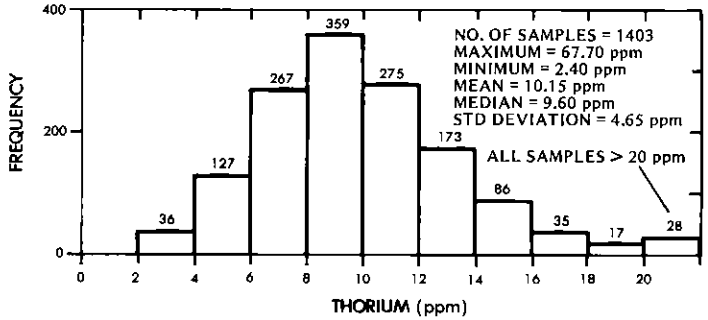
e. Wet stream sediments

APPENDIX II-C

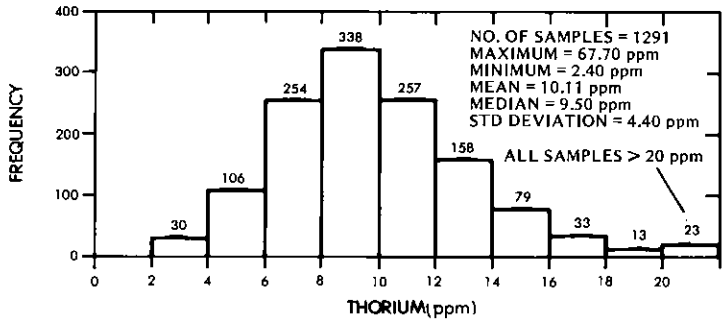
Histograms of Thorium Concentrations in Sediment Samples from the Gallup Quadrangle, New Mexico/Arizona

APPENDIX II-C

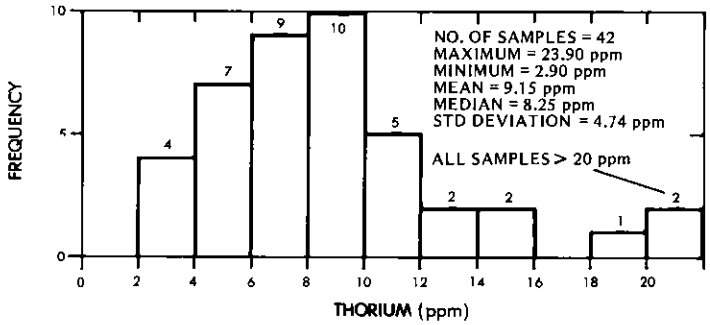
HISTOGRAMS OF THORIUM CONCENTRATIONS IN SEDIMENT SAMPLES FROM THE GALLUP QUADRANGLE, NEW MEXICO/ARIZONA



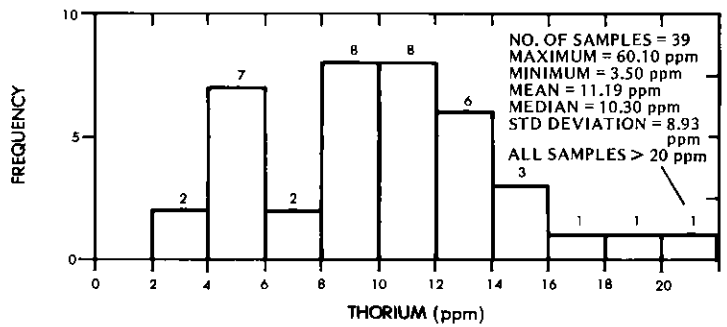
a. All thorium



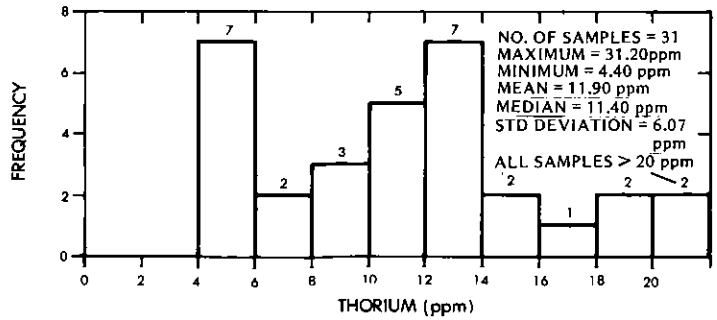
b. Dry stream sediments



c. Wet spring sediments



d. Dry spring sediments



e. Wet stream 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 collected first, directly from the source wherever possible, filtered through a 0.45-μ membrane filter (except in Alaska where this step is omitted) directly into one each, prewashed and sealed, 41-ml reactor "rabbit" and 25-ml vial (both polyethylene). Water samples in both the rabbit and vial 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. In the case of lakes sampled in Alaska, the sediment is taken from as near the center of each lake as possible by dropping a tethered, stainless steel bottom sampler overboard from a pontoon-equipped helicopter. Here, only a bottom sample from a single location is taken (i.e., it is not a composite) and sampling is limited to lakes less than 10 m deep and about 0.3 to 2.0 km in least horizontal dimension. The sampler is rinsed before each use and the raw sample is put into a clean polyethylene bag, labeled, and treated as above.

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

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 41-ml or 25-ml vials (used exclusively in some of the early work) and are transferred to clean, labeled, 41-ml rabbits before being analyzed. Each water sample is weighed, and its weight (less that of the rabbit) 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, and its weight (less that of the rabbit) recorded along with the appropriate location number. These rabbits are then loaded into a 50-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked, and standards are run for calibration. The transfer clip is installed and the samples are cycled through the system (typically, a 20-s irradiation, 10-s delay, and 30-s count cycle is used). The uranium concentration is automatically measured, converted to ppm, and entered into the data base. The lower limit of detection of this method is 0.01 ppm uranium, far below the range of uranium concentrations in natural

sediment samples. Above the 1 ppm level, the uranium values in sediment measured by DNC at the LASL have a one-sigma error of less than 4%. The specially designed delayed-neutron detectors, built by the LASL and used for these analyses, are described by Balestrini et al (1976).

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

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

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

A 5-mg portion of the -325-mesh sample that has already been analyzed by x-ray fluorescence is mixed with 10 mg of a buffer consisting of one part graphite and one part SiO_2. The sample/buffer mixture is placed into a graphite electrode that is used as the anode of a dc arc having a short circuit current of 6A for 10 s, then 17A for 50 s. Photomultiplier tubes in a direct-reading spectrograph are used to measure the second order 313.0-nm line of Be, the first order 670.7- and 610.3-nm lines of Li, the background spectra near these lines, and the 327.6-nm line of V. The 670.7-nm Li line is used for Li concentrations up to 10 ppm and the 610.3-nm line of Li is used for concentrations above 10 ppm. The V line is used to correct the Be value when V is present. The signals from the photomultiplier tubes are read by a digital voltmeter and are processed by a desk-top calculator. The results are simultaneously printed on paper and 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1 = Depositing	2 = Eroding	3 = Unknown

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

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

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

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

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

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

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

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

OWNERSHIP: Not used.

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

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

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

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

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

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

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

URANIUM CONCENTRATION: The value given in this column is the analytically derived value of the total uranium concentration found in the water sample (in ppb) or in the sediment sample (in ppm). Those uranium concentrations <u>in water</u> 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

01 - Spring water sample untreated.

02 - Stream water sample untreated.

03 - Well water sample untreated.

04 - Natural pond water sample untreated.

05 - Artificial pond water sample untreated.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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LA-8002-MS

PLATE I

110 ° 00′ W — 45′ — 30′ — 15′ — 109 ° 00′ W — 45′ — 30′ — 15′ — 108 ° 00′ W

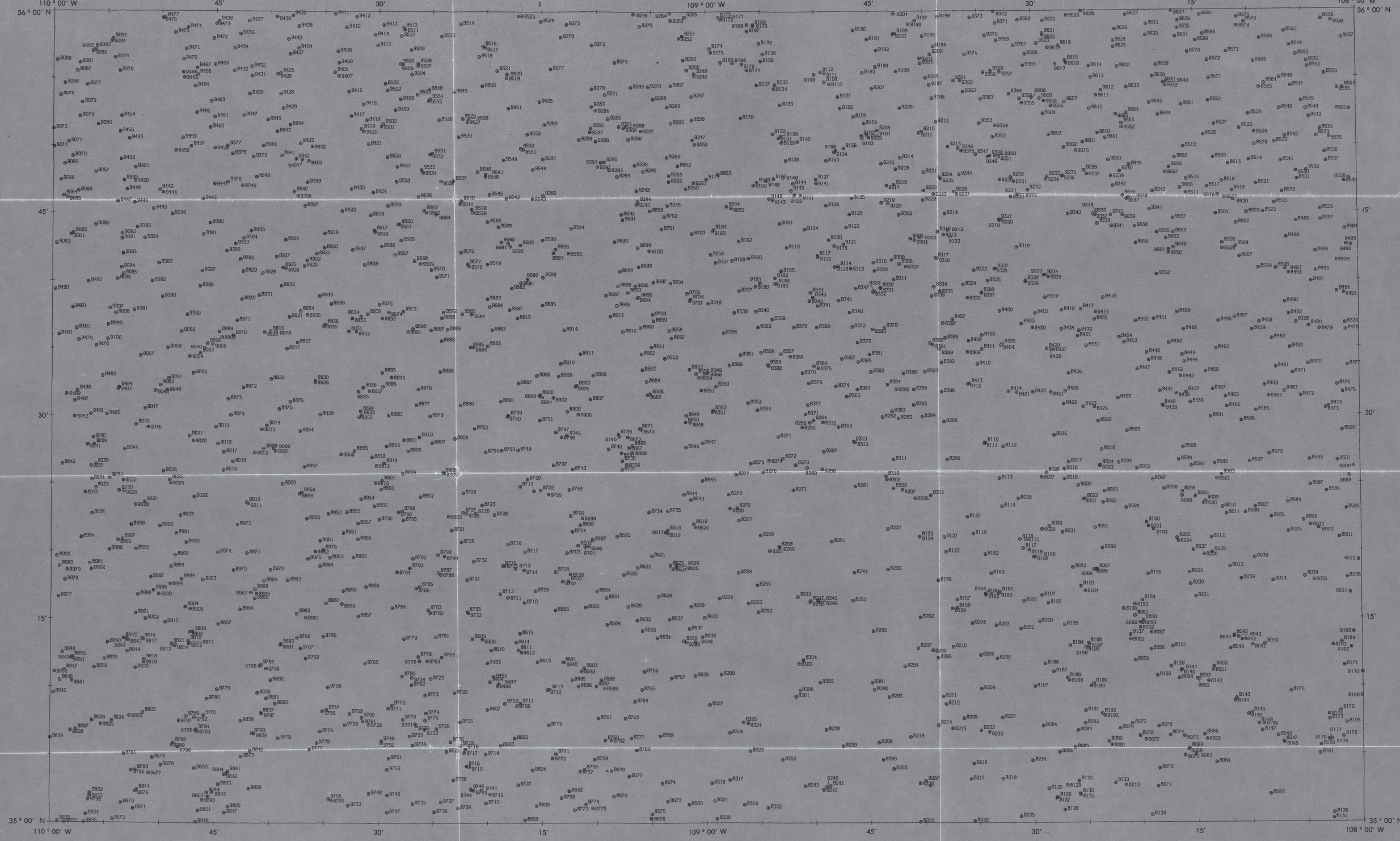
36 ° 00′ N

45′

30′

15′

35 ° 00′ N



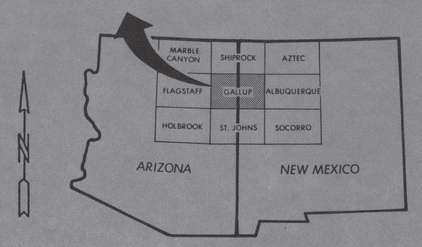
The LASL sample location numbers above are the same as those used in APPENDIX I except the leading two alphanumeric characters have been dropped.

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 GALLUP NTMS QUADRANGLE , NEW MEXICO/ARIZONA.



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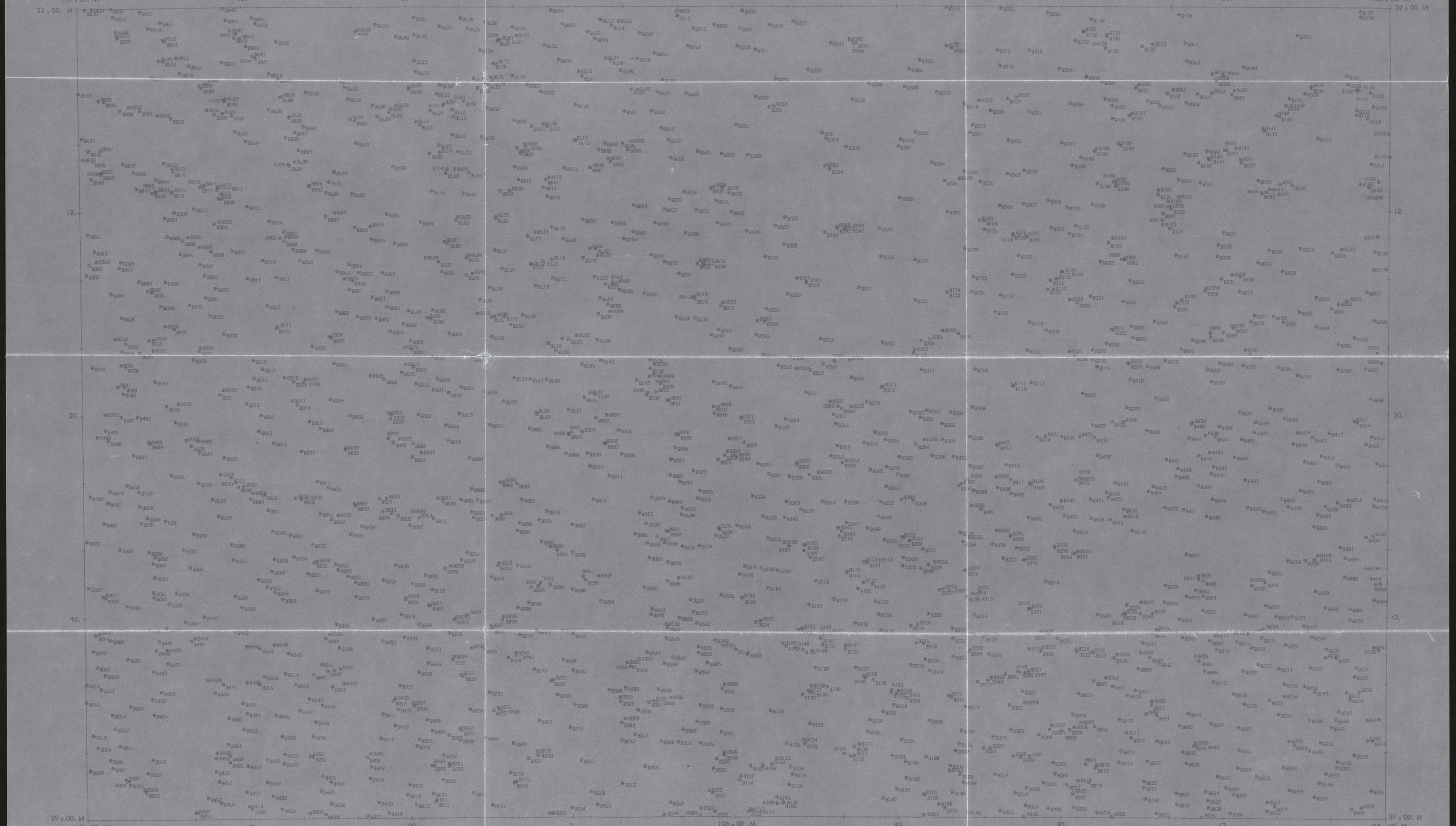
SAMPLE LOCATION OVERLAY FOR THE CALLUS NTMS QUADRANGLE, NEW MEXICO\ARIZONA

SCALE 1:250 000

5 0 5 10 15 50 50 KILOMETERS

5 0 5 10 15 50 50 MILES

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



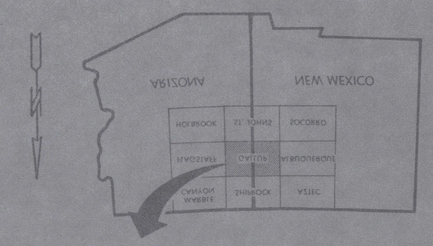


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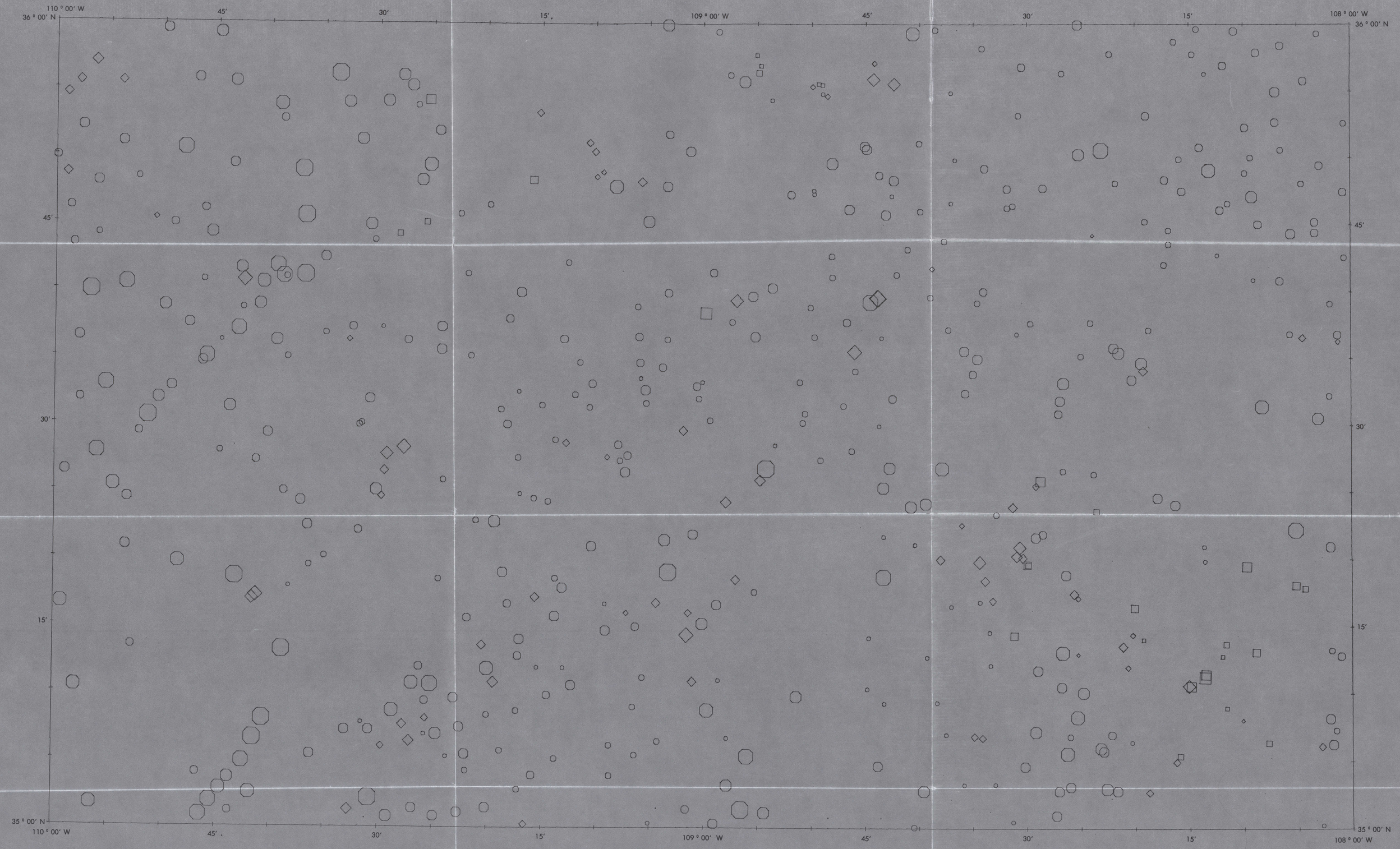
PLATE I

LA-8005-MS

LA-8002-MS

PLATE II



LEGEND

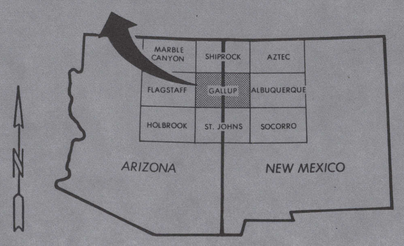
SYMBOLS	CONCENTRATIONS (ppb)	
◇ SPRING	◇ □ ○	0.00– .20
	◇ □ ○	.21– 1.00
	◇ □ ○	1.01– 2.00
□ STREAM	◇ □ ○	2.01– 5.00
	◇ □ ○	5.01– 10.00
	◇ □ ○	10.01– 20.00
	◇ □ ○	20.01– 50.00
○ WELL	◇ □ ○	> 50.00

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 GALLUP NTMS QUADRANGLE, NEW MEXICO/ARIZONA



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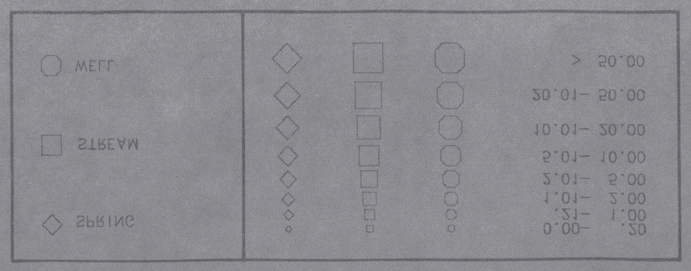
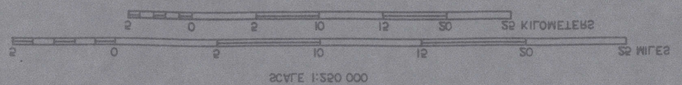
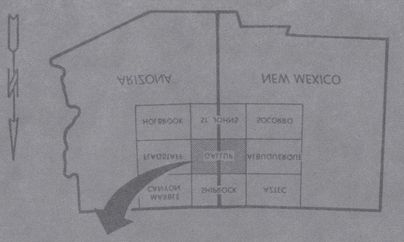
THE GALLUP NM3 QUADRANGLE, NEW MEXICO\ARIZONA
URANIUM CONCENTRATIONS (bbp) IN WATERS - OVERLAY TO







An equivalent scale/projection overlay
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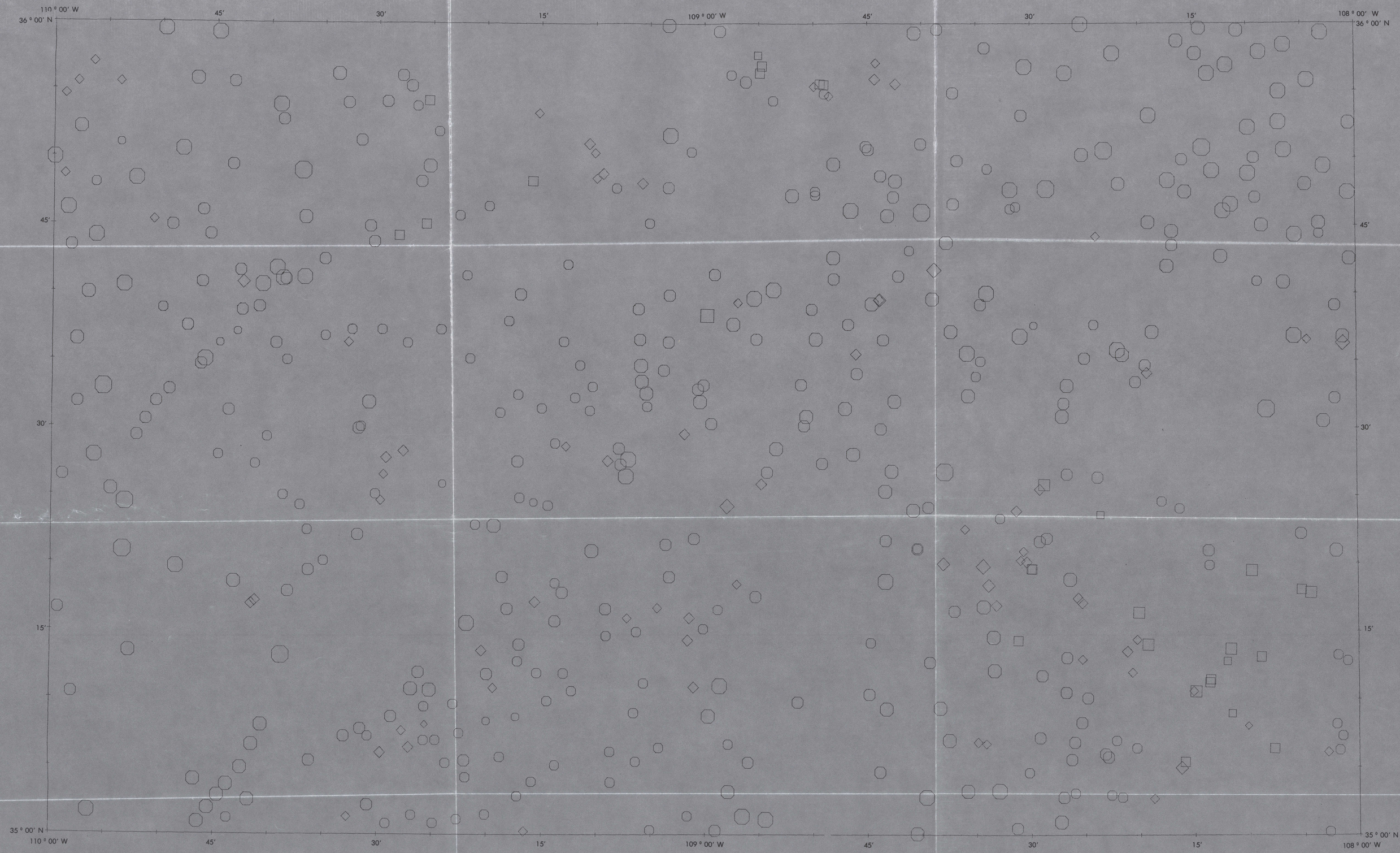
LA-8002-MS

PLATE III



LEGEND

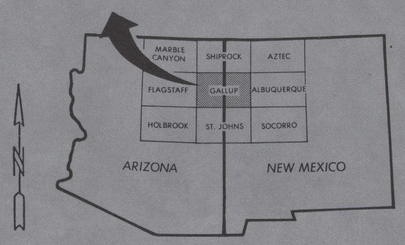
SYMBOLS	CONDUCTIVITIES (μmho/cm)
SPRING	0 - 50
	51 - 100
	101 - 200
	201 - 500
STREAM	501 - 1000
	1001 - 2000
	2001 - 5000
WELL	> 5000

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 GALLUP NTMS QUADRANGLE, NEW MEXICO/ARIZONA.



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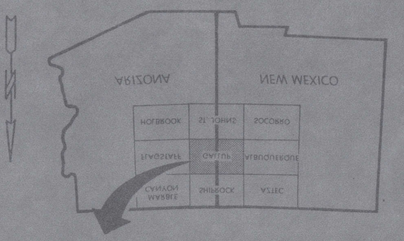
THE GALLUP NW\4 QUADRANGLE, NEW MEXICO\ARIZONA.
CONDUCTIVITIES (mmho\cm) IN WATERS - OVERLAY TO

SCALE 1:250 000

2 0 2 10 12 50 52 KILOMETERS

2 0 2 10 12 50 52 MILES



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LEGEND

SYMBOLS

WELL

STREAM

SPRING

CONDUCTIVITIES (mmho\cm)

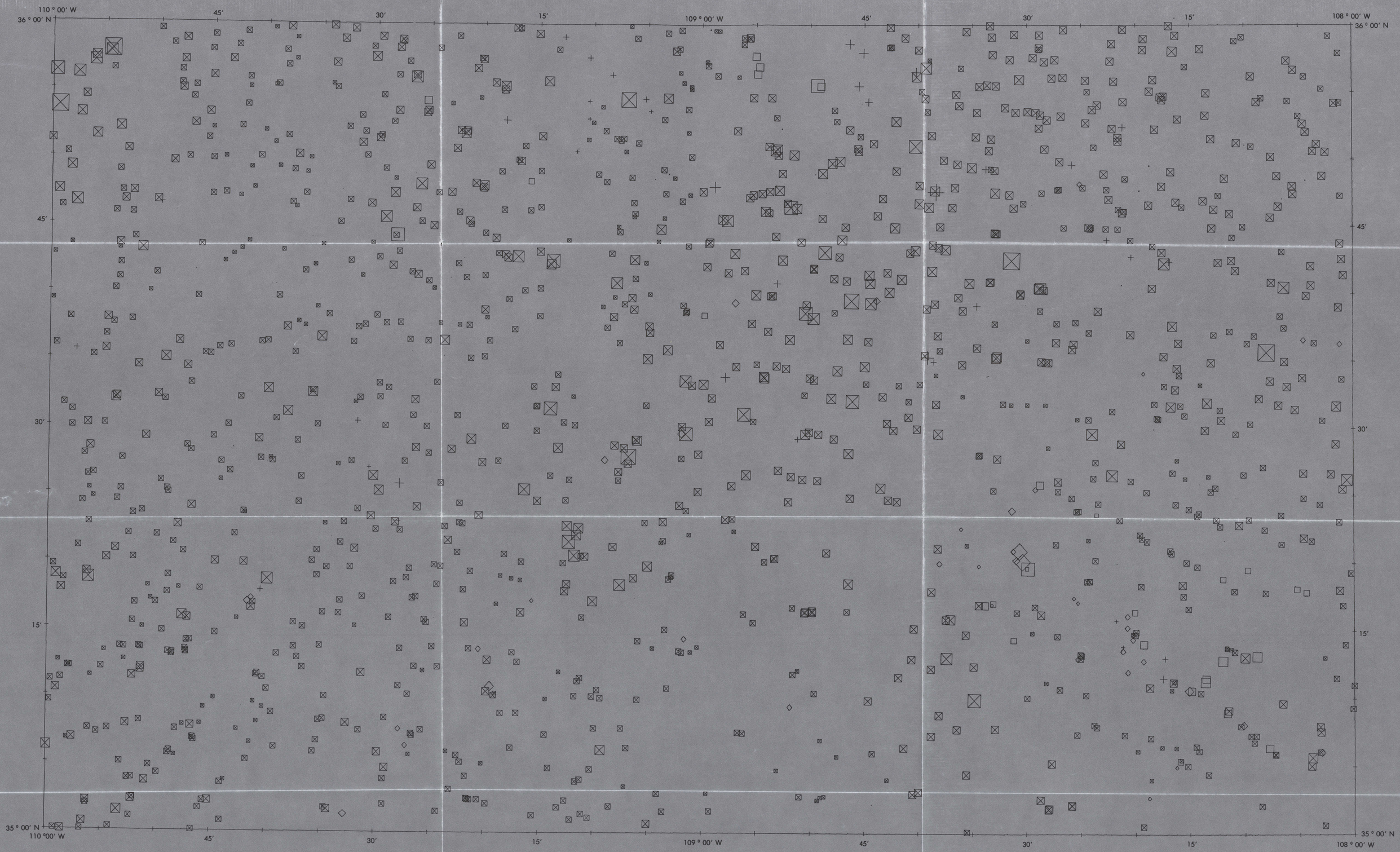
	> 2000
	1001 - 2000
	301 - 1000
	201 - 300
	101 - 200
	21 - 100
	0 - 20

LA-8005-MS

PLATE III

LA-8002-MS

PLATE IV



LEGEND

SYMBOLS

- WET SPRING
- WET STREAM
- DRY STREAM
- DRY SPRING

CONCENTRATIONS (ppm)

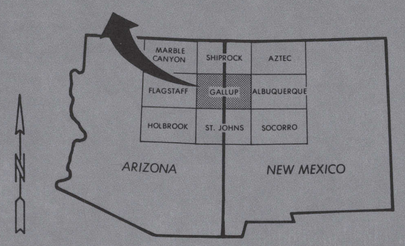
0.00– 2.00	
2.01– 3.00	
3.01– 4.00	
4.01– 5.00	
5.01– 6.00	
6.01– 8.00	
8.01– 10.00	
> 10.00	

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 GALLUP NTMS QUADRANGLE, NEW MEXICO/ARIZONA.



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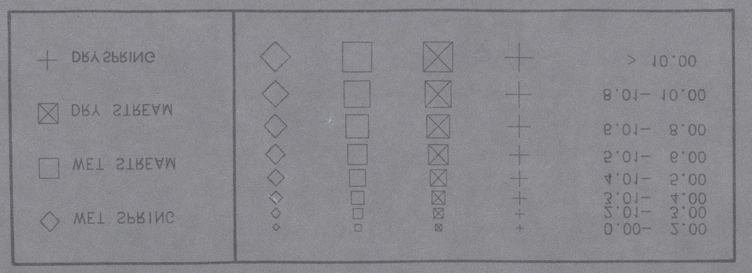
URANIUM CONCENTRATIONS (ppm) IN SEDIMENTS - OVERLAY TO THE GALLUP ATMS QUADRANGLE, NEW MEXICO\ARIZONA.



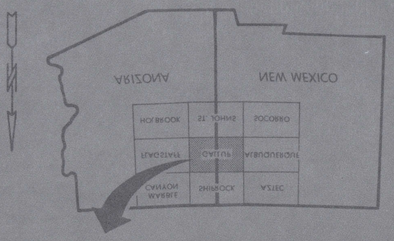
SYMBOLS CONCENTRATIONS (ppm)

LEGEND

SCALE 1:250 000

2 0 2 10 15 50 52 KILOMETERS

2 0 2 10 15 50 52 MILES



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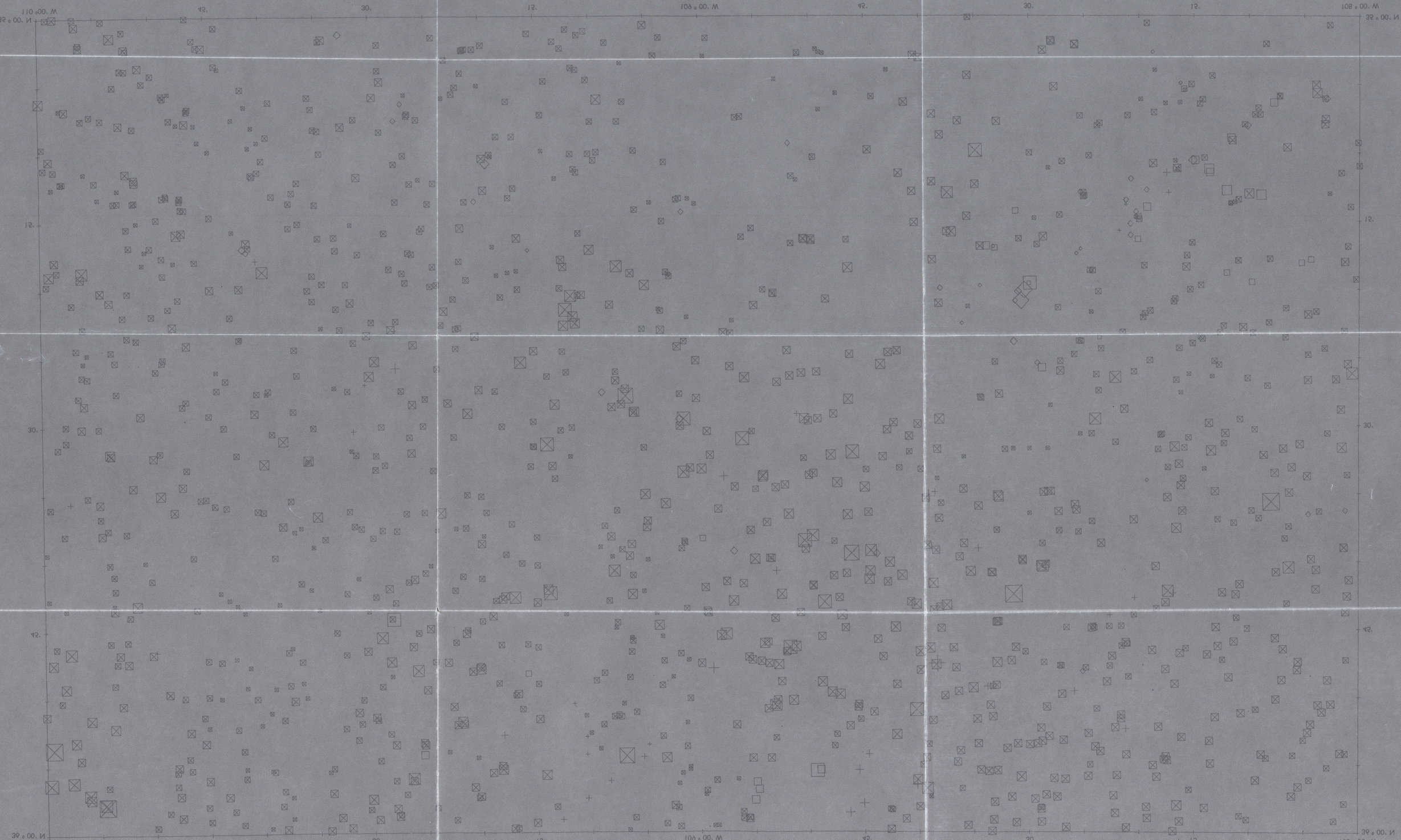


110 ° 00′ W — 45′ — 30′ — 15′ — 109 ° 00′ W — 45′ — 30′ — 15′ — 108 ° 00′ W

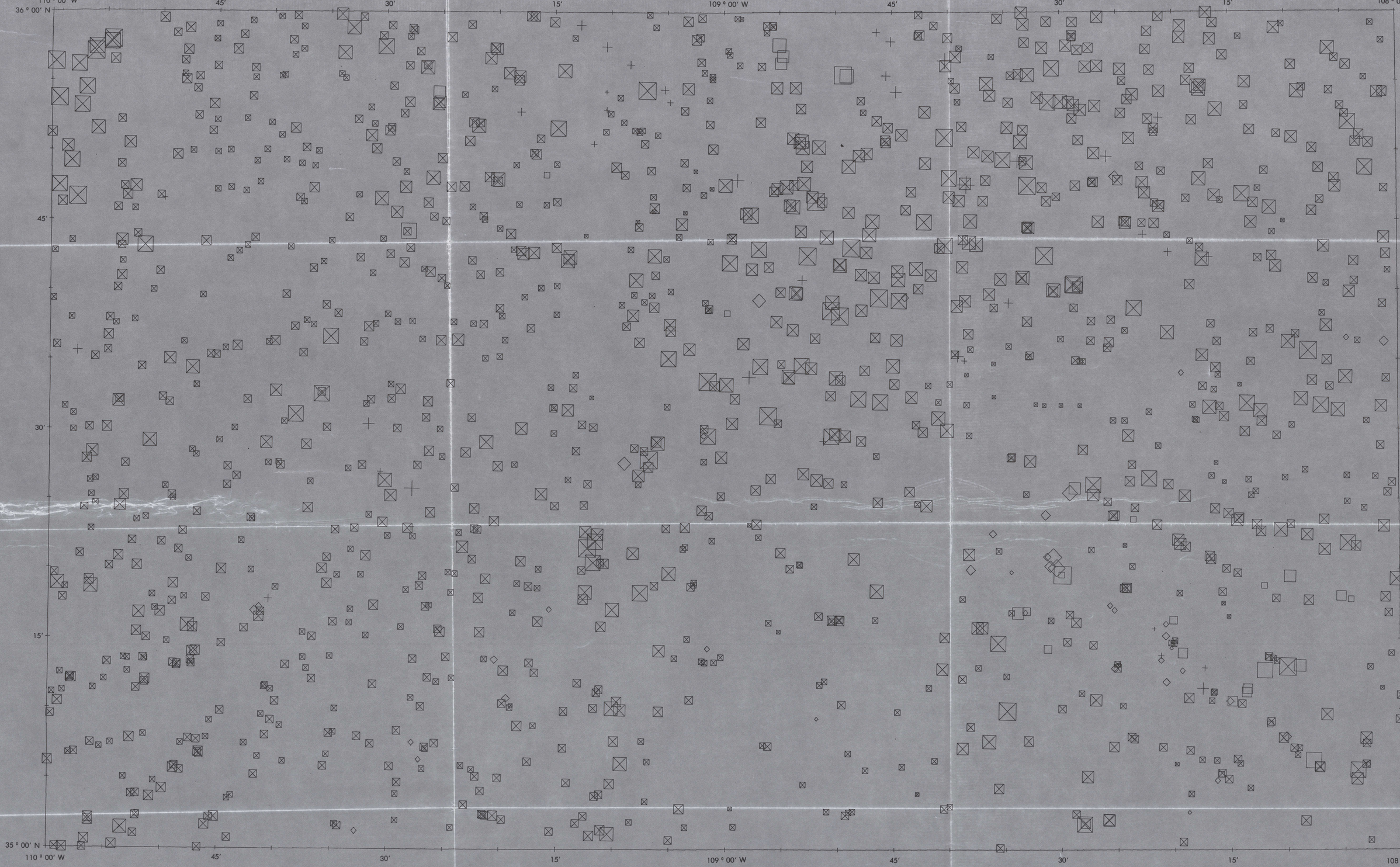
36 ° 00′ N

45′

30′

15′

35 ° 00′ N



LEGEND

SYMBOLS	CONCENTRATIONS (ppm)	
◇ WET SPRING	◇	0.0– 4.0
□ WET STREAM	◇	4.1– 8.0
⊠ DRY STREAM	◇	8.1– 10.0
+ DRY SPRING	◇	10.1– 12.0
	◇	12.1– 14.0
	◇	14.1– 16.0
	◇	16.1– 20.0
	◇	> 20.0

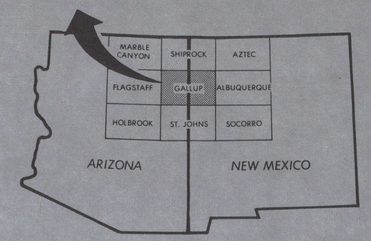
SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

THORIUM CONCENTRATIONS (ppm) IN SEDIMENTS - OVERLAY TO THE GALLUP NTMS QUADRANGLE, NEW MEXICO/ARIZONA

N



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THORIUM CONCENTRATIONS (ppm) IN SEDIMENTS - OVERLAY
TO THE GALLUP NW 2° QUADRANGLE, NEW MEXICO\ARIZONA

LEGEND
CONCENTRATIONS (ppm)
SYMBOLS
WET SPRING
DRY STREAM
WET STREAM
DRY SPRING
0.0 - 4.0
4.1 - 8.0
8.1 - 10.0
10.1 - 12.0
12.1 - 14.0
14.1 - 16.0
16.1 - 20.0
> 20.0
SCALE 1:250 000
0 5 10 15 20 25 MILES
0 5 10 15 20 25 KILOMETERS
ARIZONA
NEW MEXICO
HOUSTON
GALLUP
MANUELITO
HOSKINS
ZUNI
ZUNI MTS
ZUNIAN
ZUNIAN MARSH
ZUNIAN