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**Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data
From the Area of the
Noatak and Portions of the Baird Mountains and
Ambler River Quadrangles, Alaska**

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URANIUM HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE DATA
FROM THE AREA OF THE NOATAK AND PORTIONS OF THE BAIRD
MOUNTAINS AND AMBLER RIVER QUADRANGLES, ALASKA

by

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ABSTRACT

During August 1976, a total of 876 natural waters and 861 bottom sediments were collected at a nominal density of one location each 23 km² from streams and small lakes throughout the Noatak NTMS quadrangle, the southern two-thirds of the Baird Mountains NTMS quadrangle, and in the southwest corner of the Ambler River NTMS quadrangle. These samples were collected as part of the National Uranium Resource Evaluation program in Alaska being conducted by the Los Alamos Scientific Laboratory (LASL). The field collection and treatment of the samples were performed following strict LASL specifications. Total uranium was measured in the waters by fluorometry and in the sediments by delayed-neutron counting, using stringent quality assurance controls at the LASL. The uranium contents of the waters ranged from below the detection limit of 0.02 parts per billion (ppb) to a high of 8.38 ppb, and the uranium contents of the sediments ranged from a low of 0.3 parts per million (ppm) to a high of 34.0 ppm. In general, the locations of waters containing relatively high uranium contents were found to occur in clusters, and particularly in the headwaters of streams draining the southern slopes of the Baird Mountains. Few sediments contained relatively high uranium contents. These usually occurred singly at isolated locations scattered throughout the area. No obvious association exists between the location of high-uranium waters and sediments anywhere in the study area. The geology, mineralogy, and hydrology of this area is only generally described in the literature; therefore, it is difficult to correlate these data with particular aspects of the physical environment where individual samples were collected. However, the data do indicate that certain areas underlain by Paleozoic sedimentary rocks and granitic intrusives within the Baird Mountains and a quartz-pebble conglomerate in the Waring Mountains may warrant more detailed field investigations.

I. INTRODUCTION

This report describes work done in the Noatak and portions of the Baird Mountains and Ambler River, Alaska, National Topographic Map Series (NTMS) quadrangles (1:250 000 scale) by the Los Alamos Scientific Laboratory (LASL) as part of the nationwide Hydrogeochemical and Stream Sediment Reconnaissance (HSSR). The HSSR, a part of the National Uranium Resource Evaluation (NURE) program sponsored by the US Department of Energy (DOE), is designed to identify areas having higher than normal concentrations of uranium in ground waters, surface waters, and water-transported sediments. The HSSR data will ultimately be combined with data from other NURE programs (e.g., airborne radiometric surveys and geological investigations) to prepare an improved assessment of the potential uranium resources in the US and to indicate areas favorable for uranium exploration by the private sector. The LASL is responsible for conducting the HSSR in the Rocky Mountain states of New Mexico, Colorado, Wyoming, and Montana and in Alaska.¹⁻¹²

Stream water and sediment and/or lake water and bottom sediment were collected according to standard LASL procedures^{13,14} by a private firm working under contract to the LASL between August 12 and 20, 1976. Samples were collected at a nominal density of one sample location every 23 km² from throughout the land portion of the Noatak quadrangle, the southern two-thirds of the Baird Mountains quadrangle, and one-sixth of the Ambler River quadrangle in its southwestern corner. Access to all locations was made using helicopters equipped with pontoons for flotation. Water samples were collected from 660 streams and 216 natural ponds (or small lakes, none of which were greater than 2 km in major horizontal dimension). Sediment samples were collected from 661 stream locations (three of which were dry) and 200 natural pond sites. The water samples were all acidified to a pH of ≤ 1 , and the sediments were sieved to yield the -100-mesh fraction. All samples were analyzed for total uranium at the LASL. Uranium, in parts per billion (ppb), was generally determined in waters by fluorometry, using a concentration technique, except for a few samples that gave spurious results and were reanalyzed by delayed-neutron counting (DNC). Uranium, in parts per million (ppm), was measured in all sediments, using the DNC technique. Both methods are described in Appendix A. The results of these analyses, as well as field data recorded at each location, are provided for the water samples in Appendix B and for the sediment samples in Appendix C. Appendix D provides the codes used in Appendixes B and C. Appendix E is a listing of the dissolved oxygen, in ppm, measured in ponds, small lakes, and a few streams throughout the study area. In the rear pocket of the report are nine overlay plates showing the locations of all samples by quadrangle (Plate I - Noatak, II - Baird Mountains, and III - Ambler River), the uranium concentrations of all water samples by quadrangle (Plates I-A, II-A, and III-A), and the uranium concentrations of all sediment samples by quadrangle (Plates I-B, II-B, and III-B). These 1:250 000-scale overlays can be used with the appropriate NTMS topographic quadrangle maps or with appropriately scaled geologic maps (of which only the Ambler River map is presently available¹⁵). Uranium analyses and field data for samples collected at 89 locations within the proposed Cape Krusenstern National Monument area of the Noatak quadrangle were open filed previously,¹⁶ but they are also included herein. Analysis of 44 additional elements are included in the previous open-file report.¹⁶ Subsequent HSSR reports, covering each of these NTMS quadrangle areas in its entirety and including elemental analyses for uranium and up to 43 additional elements, will be open filed after the

remaining areas of the Baird Mountains and Ambler River quadrangles have been sampled and the additional analyses have been completed. Consequently, the evaluation of the uranium data presented herein with regard to the local geology, hydrology, etc., will be brief in anticipation of more thorough evaluations in these and other forthcoming reports.

II. DESCRIPTION OF THE STUDY AREA

Location and Geographic Setting

The study area, as shown in Fig. 1, is bounded on the south by 67° N latitude, on the north by 68° N latitude, on the west by 165° 30' W longitude, and on the east by 158° W longitude. At the time of sampling, access to areas north of the Baird and Brooks Mountains was restricted due to poor weather; consequently, the northern portion of the Baird Mountains quadrangle and that part of the Ambler River quadrangle west of 158° W longitude and north of the Brooks Mountains range were not sampled. These areas and the remainder of the Ambler River quadrangle are now scheduled to be sampled during the summer of 1978.

The study area is located in a remote and undeveloped region of Alaska. Year-round accessibility is limited to aircraft, but during the summer months boats can be used on the major rivers, and during the winter months, numerous winter trails provide access using dog-sleds and snowmobiles. Only three or four small villages are inhabited year-round in this sparsely populated area. Small communities exist at Kivalina, on the coast, Noatak, on the Noatak River, and a mining camp at Klery Creek, approximately 10 km north of the Squirrel River in the Baird Mountains quadrangle. Only one unimproved road is found within the entire study area, leading from Klery Creek to Squirrel Landing on the Squirrel River.

Vegetation in the upland portions of the study area consists primarily of Alpine-type brush and grasses. Spruce and poplar forests are found along the major rivers. Much of the lowland area is covered by wet-to-moist tundra and muskeg bogs.¹⁷

The study area includes parts of four physiographic provinces, the Arctic Foothills in the northwestern land areas of the Noatak quadrangle, the Noatak Lowlands bordering the Noatak River, the Baird Mountains, and the Kobuk-Selawik Lowland.^{17,18} Elevations range from sea level to over 1000 m in the Baird Mountains. The lowland tundra areas are dotted with small thaw lakes while the mountainous areas are drained by numerous streams. The southern Baird Mountains are within the Kobuk River drainage, whereas the western and northern parts of the area are in the Noatak River drainage. Both major river systems flow generally to the west-southwest and enter the Chukchi Sea along the north side of Kotzebue Sound.

Climate

The entire region lies north of the Arctic Circle, but the climate is generally classified as subarctic. Annual precipitation amounts range from 25 cm in the lowlands to 50 cm in the mountainous areas.¹⁷ Slightly more than half of the precipitation occurs as snowfall, which averages about 125 cm per year over most of the region. Rainfall occurs predominantly from late May to early September and is usually heaviest during August (the month that the samples were collected in this area). Weather data is available for Kotzebue and Kobuk, both of which are below the southern boundary of the report area on

Fig. 1. Location of the NTMS quadrangles included in this report.

the west and east, respectively. During the eight-day sampling period, a total of 1.14 cm precipitation was recorded at Kotzebue (on the coast) during August 12 through 15. At Kobuk, which is inland from the coast and south of the Ambler River quadrangle, a total of 2.47 cm precipitation was recorded on August 14, 15, and 16. Temperatures during the sampling period ranged between 6.1°C and 17.8°C at Kotzebue and between -0.6°C and 21.1°C at Kobuk.¹⁹ Additional climatic data, recorded at each sample location, are provided in Appendixes B and C of this report.

III. HYDROLOGY

The lowland areas throughout the study area are dotted with thaw lakes and are drained by large rivers that flow southward and westward into the Chukchi Sea and Kotzebue Sound. In the Noatak quadrangle the major drainages, going from west to east, are the Kivalina, Wulik, Noatak, Eli, and Agashashok Rivers. All are fed by numerous tributary streams draining the upland areas.

Major drainages in the Baird Mountains quadrangle, from west to east, are the Noatak River, which flows westward north of the Baird Mountains, the Squirrel River, which flows to the south and east from sources in the Baird Mountains, the Omar River which flows to the south, and the Salmon and Tutuksuk Rivers, which, along with their many tributaries, drain a large basin on the south side of the Baird Range. All of the above rivers except the Noatak enter the Kobuk River, which flows generally westward near the southern boundary of the quadrangle.

The southwestern corner of the Ambler River quadrangle is crossed by the Kobuk River. It is fed by small streams flowing north off the Waring Mountains and larger streams and rivers such as the Hunt and Akillik, which flow south from the Baird Mountains.

The surface waters throughout the report area carry low concentrations of dissolved ions, as indicated by the generally low specific conductances measured in these waters (Appendix B). The Noatak and Kobuk Rivers carry a large volume of suspended sediment. The measured pH of these waters are generally very close to neutral (pH of 7) and range from a low of 6.0 to a high of 9.6 pH units (Appendix B).

Ground-water inflow undoubtedly occurs along the major river drainages, along fault zones, and probably along the base of the mountain ranges. However, there is not sufficient information about the hydrology of this area to do more than speculate as to the magnitude and nature of the ground-water environment.

Permafrost

Permafrost is nearly continuous throughout the survey area and forms an effective barrier between the surface and deep ground-water aquifers, where they exist. Along the mainstreams of the Noatak and Kobuk Rivers, permafrost is discontinuous or absent due to heating by the perennially flowing waters. During the summer, the uppermost few meters of the permafrost layer thaw, resulting in an active hydrologic zone near the surface and the formation of numerous thermokarst features such as thaw lakes, ice wedge polygons, frost mounds, solifluction sheets and lobes, etc. Communication between the surface waters and deep subpermafrost aquifers is severely restricted in areas of continuous permafrost and is locally restricted in areas of discontinuous permafrost. As a result, mixing of such waters, particularly mixing of their

elemental constituents, does not usually occur as rapidly in arctic environments as it does elsewhere. There is, however, considerable evidence that elemental ions from deeply buried formations do migrate upward, even in areas of continuous permafrost, and the mechanisms by which this occurs are discussed below.

Several reports on hydrogeochemical prospecting in permafrost regions have been published, particularly by investigators in the USSR, Canada, and the Scandinavian countries.²⁰⁻²⁴ Most have dealt with the distribution and migration characteristics of trace metals (ions) such as mercury, copper, zinc, lead, nickel, cadmium, manganese, iron, cobalt, arsenic, gold, and others; but more recently, uranium has gained considerable interest. The conclusion reached by these investigators is that hydrogeochemical prospecting methods are effective in permafrost environments, even where the permafrost zone is very deep.

Some geochemical mechanisms which have been found to operate in permafrost areas include oxidation in the frost zone just below the active one, as well as in the active zone itself, and intensive leaching of soluble elements in the active zone during the period of summer melt and runoff. These mechanisms result in the subsequent formation of aqueous dispersion trains down gradient from metalliferous deposits where they exist. Soluble elements (metal ions) are replenished in the active, near-surface zone during the winter freeze, probably by ionic diffusion toward the colder surface layer.²⁴ The diffusion of some soluble metal ions has even been found to continue upward into the winter snow pack.²⁴ The diagrams in Fig. 2 show schematically how the metal ions migrate in permafrost.

Most studies of permafrost geochemistry were undertaken in relatively small local areas, usually near known metal deposits. As a result, there is little information related specifically to wide-area reconnaissance surveys, such as the HSSR, in permafrost areas. However, the distribution of uranium concentrations shown on the water and sediment overlays, Plates I through III (in pocket), do show regional trends that are apparently related to geologic provinces. These regional concentration trends are very similar in appearance to trends that appear in more southerly climates.

In view of the geochemistry of permafrost regions and the relative nature of relationships of the HSSR data within similar geohydrologic environments, there is strong reason to believe that uranium provinces can be delineated in arctic environments using this methodology. At the same time, it should be noted that both the background and "anomalous" uranium concentrations in waters from northern latitudes, generally, and permafrost regions, specifically, will often be considerably (and uniformly) lower than values seen in the lower 48 conterminous states.

IV. GEOLOGY

With the exception of the Ambler River quadrangle and along the Kobuk River drainage, little detailed geologic mapping has been undertaken anywhere in the report area. Consequently, the stratigraphic relationships, thicknesses of sedimentary units, and descriptions of individual lithologies are, of necessity, all quite general. Stratigraphic units are generally described on the geologic map of Fig. 3 and in the various reports and maps in the references cited below.

Fig. 2. Representation of ion migration in permafrost.²⁴

Stratigraphy

The lowland areas along the coast and in the major river valleys are, generally mapped as unconsolidated glacial, alluvial, and eolian sediments. The upland areas of the Baird Mountains and the Mulgrave and Igichuk Hills, near the coast, are mapped predominantly as undifferentiated dolomites, limestones, shales, cherts, graywackes, sandstones, or mafic volcanic and intrusive rocks.

The most extensive exposures of igneous rocks occur to the east and northeast of Noatak, in Asik Mountain, and in the Maiyumerak Mountains. Additional igneous rocks are exposed north of Kivalina, in the Siaktat Hills, Kisemaraktuk Mountain, Kisimilot Mountains, and Iyikrok Mountain. Smaller outcrops are mapped in the Kallarichuk Hills, north of Kiana, and in the Akiak Mountains near the western boundary of the Ambler River quadrangle.^{26,27}

A majority of the igneous rocks mapped within the survey area are described as Permian- to Jurassic-age mafic volcanics that include basalts, diabases, diorites, gabbros, dunites, and peridotites. Two small outcroppings of granitic rocks occur in the Baird Mountains quadrangle, one in the northeast corner (several kilometers north of the area sampled) and one on the north side of the Kobuk River near the south-central border of the quadrangle.²⁷

LEGEND

SEDIMENTARY ROCKS

- **Qs** SAND DUNES
- **Qa** QUATERNARY ALLUVIUM (along major Rivers)
- **Uk** UPPER CRETACEOUS CONTINENTAL ROCKS.-- Includes sandstone and conglomerate, with interbedded shale, clay, and silt.
- **Lg** LOWER CRETACEOUS ROCKS.--Includes undifferentiated graywacke sandstone, shale, siltstone, and conglomerate.
- **JP** JURASSIC, TRIASSIC, AND PERMIAN ROCKS.-- Undifferentiated shale, siltstone, chert, and graywacke.
- **M** MISSISSIPPIAN ROCKS.--Conglomerate, shale, and limestone with subordinate shale, chert, and dolomite.
- **uD** UPPER DEVONIAN ROCKS.--Consists of a carbonate sequence of limestone and dolomite in the western Brooks Range, and limestone in the Baird Mountains.

- **MD** MISSISSIPPIAN AND (OR) DEVONIAN ROCKS.-- Sandstone, quartzite, graywacke, and quartz-chert conglomerate. Includes the Noatak Sandstone in western Brooks Range.
- **uMD** MIDDLE TO UPPER DEVONIAN ROCKS.--Conglomerate, graywacke, chloritic phyllite, calcareous shale and sandstone, siltstone, and minor limestone.
- **DS** DEVONIAN AND SILURIAN ROCKS.--Includes limestone, dolomite, marble, and interbedded shale in the Brooks Range.
- **IPz** LOWER PALEOZOIC ROCKS.--Includes undifferentiated phyllite, slate, schist, graywacke, quartzite.
- **IPzpc** LOWER PALEOZOIC AND (OR) PRECAMBRIAN ROCKS.--Includes undifferentiated quartz-mica schist, mafic gneiss-schist, calcareous schist, chloritic quartz schist, phyllite, and quartzite.

IGNEOUS ROCKS

- **Kg** CRETACEOUS GRANITIC ROCKS.--Chiefly quartz monzonite and monzonite with granite, granodiorite, and syenite.
- **JPv** JURASSIC, TRIASSIC, AND PERMIAN VOLCANIC ROCKS.--Igneous complex of mafic volcanic and intrusive rocks. Complex is composed of basalt, diabase, diorite, gabbro, radiolarian chert, peridotite, and dunite. In places includes flows, tuffs, breccias, and interbedded sediments.
- **JPum** JURASSIC, TRIASSIC, AND PERMIAN ULTRAMAFIC ROCKS.--Serpentinized peridotite and dunite. In the western Brooks Range consists of locally serpentinized complex of gabbroic and ultramafic rocks.
- **Q** GRANITIC ROCKS OF UNKNOWN AGE.--Predominantly quartz monzonite.

Fig. 3. Generalized geology of the Noatak, Baird Mountains, and western one-third of Ambler River NTMS quadrangles, Alaska.²⁵

Structure

The Brooks Range, including the Baird Mountains, has been the site of several late Precambrian and Paleozoic orogenic episodes.²⁸ The latest episode, which occurred during late Mesozoic or early Tertiary, resulted in low-angle thrust faulting and isoclinal folding as the Brooks Range geanticline was uplifted.²⁹ In the Baird Mountains, thrusting of the Paleozoic sedimentary units, followed by differential erosion of limestones and volcanic rocks, has produced an unusual pattern of flat-lying thrust faults. Several of these appear as closed loops (not shown in Fig. 3) on the geologic maps of this area.^{17,25} Fold axes in the western Baird Mountains abruptly bend to a north-south orientation, paralleling those in the Seward Peninsula directly to the south.²⁸ Patton and Tailleux have proposed that during late Cretaceous or early Tertiary, the western end of the Baird Range was deflected to the south along a southward looping oroclinal flexure.³⁰

V. MINERAL OCCURRENCES

The survey area includes parts of three recognized mining districts as generally delineated in Fig. 4.¹⁷ The Lisburne mining district, within the northwestern part of the Noatak quadrangle, contains lead and zinc occurrences in the Delong Mountains, north of the study area, and chromium occurrences on Iyikrok Mountain, near the northern boundary of the Noatak quadrangle. The Noatak mining district has occurrences of gold, copper, antimony, lead, zinc, and chromium, but mining has been limited to minor placer gold production. No radioactive minerals are known to occur within the portion of the Noatak mining district covered by this report; however, uranium mineralization occurs northeast of the report area in the Brooks Range.¹⁷ The Kiana mining district covers most of the Baird Mountains quadrangle (all of the area included in this study) and the southwest one-sixth of the Ambler River quadrangle. The Baird Mountains are generally described as a favorable mineral province for copper, gold, lead, and zinc; however, the only known economic minerals within the survey area are placer gold deposits in the south-central part of the Baird Mountains quadrangle. These deposits, which were worked in the early 1900's, occur in streams draining the south-central Baird Mountains in the vicinity of Mery Creek.³¹ Copper mineralization of unknown economic importance occurs at three locations in the Baird Mountains quadrangle: at 67° 38' N latitude and 161° 25' W longitude; at 67° 38' N latitude and 160° 20' W longitude; and at 67° 35' N latitude and 159° 35' W longitude.³¹ A fourth copper occurrence is located just inside the western boundary of the Ambler River quadrangle (67° 32' N latitude and 158° 59' W longitude).³² All four are described as lode-type deposits.

Within the Ambler River quadrangle there are several other known occurrences of metal minerals, including copper, lead, nickel, silver, zinc, iron, and gold plus at least one which includes some radioactive minerals (on Aurora Mountain).³² Of these, only two are in the survey area: one, at 67° 15' N latitude and 158° 10' W longitude (Jade Mountain), has copper and lead minerals in a lode deposit; the second, at 67° 11' N latitude and 157° 47' W longitude, has lode-type nickel mineralization.³² Production from these deposits is not known.

There has been only limited exploration for radioactive minerals in the survey area. An airborne radiometric survey, flown in 1955, identified an anomalous area at 67° 18' N latitude and 158° 15' W longitude.³³ Water

Fig. 4. Mineral districts of the Noatak, Baird Mountains, and western one-third of Ambler River NTMS quadrangles, Alaska.¹⁷

samples collected in that vicinity, described in the following section, have above-average (though not anomalous as defined below) uranium contents, but the uranium contents of sediments from that area are not abnormally high.

VI. EVALUATION OF THE DATA

The data presented in the listings of Appendixes B and C are not separated by NTMS quadrangle due to the system of data handling being used at the time these samples were analyzed. As a result, the tabulated statistical summaries and histograms that follow are for the entire report area. For convenience, the empirical evaluation will refer to individual NTMS quadrangle areas, starting with Noatak on the west and ending with Ambler River on the east.

The results of the uranium analyses of water samples from the entire study area are presented first, followed by the results for the sediment samples. Since there is a paucity of detailed geologic, hydrologic, and mineralogic data for this area of Alaska, suggested correlations between the uranium data and physical environment are based largely on general geochemical associations of uranium. Additional field studies in those areas having clusters of high-uranium samples (either waters or sediments) will be necessary to fully understand the significance of these results.

In evaluating geochemical data in the natural ranges of elemental abundance, it is convenient to establish a point of reference, or threshold value, above which the results are considered to be anomalous. Very often this so-called anomaly threshold is established on the basis of a statistical distribution of the data. If the statistical distribution of a single data population (such as uranium concentrations in sediments) is found to be normal, the average or mean concentration for the population can be taken as background, and the anomaly threshold can be reasonably set at two standard deviations above the mean (i.e., the upper 2-1/2% of the entire data population). Unfortunately, in many (if not most) geochemical studies, a normal statistical distribution is not found, either due to analytical limitations (a censored distribution)³⁴ or to natural variability of elemental abundances in different lithologic, hydrologic, mineralogic, etc., environments. In other words, a mixing of data populations often occurs that skews the statistical distribution to either the low or high side, or causes it to be multimodal. Because there is a wide range of natural abundances for uranium, some investigators have either played down the usefulness of selecting an anomaly threshold,³⁵ have gone to selecting a threshold based on some multiple of the natural background,³⁶⁻³⁸ have selected to use a simple percentile rank cut-off (usually in the upper 5%),²⁰ or have opted to discourage quantitative evaluations entirely (in the case of hydrogeochemical prospecting for uranium).³⁹

Even if the elemental distribution is not normal, or is censored due to analytical limitations, using standard deviations above the mean to set the anomaly threshold is still a reasonable and rapid method for estimating the relative significance of high-uranium values obtained in wide-area reconnaissance surveys such as the HSSR. The other techniques mentioned, if carefully used, are also quite adequate, inasmuch as they too provide a point of reference on which to evaluate the data. When using any anomaly threshold to evaluate HSSR uranium data, no matter what the basis for its selection, it is important to understand that the occurrence of a single anomalous value, or

even a cluster of anomalous values, does not necessarily indicate significant (economic) mineralization but only that the relative favorability for finding economic mineralization is greater in its vicinity. In particular, single, isolated anomalous values should be regarded with great caution, as many things can cause any single value to be spurious.

The distribution of uranium in waters collected in this area of Alaska is analytically censored since 87 samples fall below the detection limit, whereas the uranium in sediments follows a near-normal distribution. For both sample types, however, an anomaly threshold based on the mean plus two standard deviations was selected for the evaluations that follow.

Uranium in Waters

The mean uranium concentration is 0.41 ppb for the entire population of 876 water samples (including 87 samples having concentrations below the 0.02 ppb detection limit and arbitrarily given a recorded value of 0.01 ppb), and the range is from 0.01 to 8.38 ppb (Fig. 5). Using the mean plus two standard deviations as the anomaly threshold (≥ 1.85 ppb), there are 22 water samples that are anomalous (see Table I). The histograms in Fig. 5 show the distribution of uranium in waters, both combined and by source, along with basic statistical data.

In the Noatak quadrangle, a string of four lake water samples with anomalous uranium contents occurs near the coast between the outlets of the Kivalina and Wulik Rivers. These locations, 404340 to 404343, are close enough to the Chukchi Sea to suspect mixing with saline seawater, which, in general, contains 1 to 3 ppb uranium.⁴⁰ The specific conductances of these waters, however, are uniformly low, indicating that seawater contamination is probably not an important contributor of uranium. The surface geology in the vicinity of these locations is dominantly alluvium and/or coastal marine sediments. Just to the north are outcroppings of undifferentiated Paleozoic sedimentary rocks that in places include limestone, dolomite, sandstone, and shale. The source of the relatively high uranium found in these lake-waters is not known; however, it is possible that water flowing through carbonate rocks upslope is being enriched in uranium through the process of carbonate complexing (which puts uranium in a water soluble form) and is then entering the lakes below. Other possible causes for the increased uranium content in these lakes may be a local source of mineralized ground water from springs emanating along a fault zone (which might account for the linear distribution of these locations) or some means of evaporative enrichment, although the latter seems unlikely considering the climate in this area of Alaska.

A second, and perhaps more significant, cluster of high-uranium waters in the Noatak quadrangle occurs in the southeastern corner in the Hugo Creek drainage basin. Only one location, 404010, with a uranium content of 2.77 ppb, is above the chosen anomaly threshold; however, there are several other locations in that area with above-average uranium contents, ranging from 0.95 ppb (404014) to 1.48 ppb (404009). The geology in this area is mapped on a reconnaissance basis as Precambrian to Mississippian sedimentary rocks including limestone, shale, and sandstone. Here too, it is possible that uranium is being introduced into the streams by the mechanism of carbonate complexing. In both this area and the preceding lake area, the theory of carbonate complexing to explain the relative uranium enrichment of the waters assumes the existence of carbonate rocks. In neither area can this be known with certainty from the available geologic and geochemical literature.

TABLE I

WATER SAMPLES WITH ANOMALOUS URANIUM CONCENTRATIONS (>1.85 PPB)
COLLECTED IN THE NOATAK AND PORTIONS OF THE BAIRD MOUNTAINS
AND AMBLER RIVER NTMS QUADRANGLES, ALASKA

<u>LASL Sample Location No.</u> ^a	<u>Source</u> ^b	<u>Latitude</u> ^c	<u>Longitude</u> ^c	<u>Uranium Concentration (in ppb)</u> ^c
*404010	S	67°13'48"	162°08'24"	2.77
*404340	L	67°47'21"	164°34'36"	6.70
*404341	L	67°47'00"	164°26'48"	4.71
*404342	L	67°48'06"	164°19'00"	5.70
*404343	L	67°48'25"	164°13'60"	6.20
404718	S	67°11'10"	159°41'54"	3.30
*404774	S	67°22'28"	160°22'36"	2.54
*404808	S	67°38'36"	159°55'60"	3.21
*404809	S	67°40'00"	159°59'00"	3.30
*404810	S	67°41'10"	160°03'00"	3.44
*404811	S	67°38'12"	160°04'24"	3.43
*404825	S	67°37'06"	159°22'48"	1.99
*404872	S	67°11'36"	160°57'58"	3.71
*404873	S	67°14'02"	160°55'19"	2.82
*404928	S	67°27'03"	158°20'58"	2.54
*404934	L	67°25'00"	158°33'30"	8.38
*404936	S	67°30'46"	158°23'24"	2.38
*404942	S	67°27'54"	158°50'27"	2.17
404980	S	67°25'54"	161°48'12"	3.71
*404050	S	67°30'00"	160°18'18"	7.95
404051	S	67°30'14"	160°11'12"	1.93
*405053	S	67°30'14"	160°11'12"	1.93

^a Sample locations shown with an asterisk are in areas where at least two or more above-average (though not necessarily >1.85 ppb) uranium concentrations are located in close proximity to one another.

^b L = Lake sample; S = Stream sample

^c The latitudes and longitudes, uranium concentrations, and supplementary field data for these water samples are listed with those of all other water samples in Appendix B.

Fig. 5. Histograms and statistical data for uranium concentrations in water samples.

The Baird Mountains quadrangle contains 13 locations with water samples that have anomalous concentrations of uranium. Of these, only two locations (404980 with 3.71 ppb and 404718 with 3.30 ppb) are actually isolated from others having waters with relatively high values and are therefore less worthy of consideration. There are four locations along Omar River that contain either anomalous (404872 and 404873) or above-average (404875 and 404876) uranium. The Omar River heads in the Baird Mountains and flows south across Paleozoic sedimentary rocks. The general increase in its uranium content downstream would appear to indicate an influx of uranium-enriched ground or surface waters along part of its course.

In the east half of the Baird Mountains quadrangle there is a distinct increase in the uranium contents of waters collected in the headwater areas of streams draining south from the Baird Mountains. The uranium in these waters is evidently related to the mountain range, but it is not known if the source relates to the granitic core, part of which is exposed in the area of Sheep Creek, to the overlying Paleozoic sediments, or to waters emanating from fault zones in the mountain range. Although supporting literature is not available, significant ground-water inflow into streams in the area would not be unexpected near the mountains. In any event, this general area appears favorable for additional investigation to determine the source of the uranium and its possible significance.

The trend of increased uranium contents in waters collected in the mountains continues into the Ambler River quadrangle to the east. Four water samples have anomalous uranium concentrations, including three streams (404928, 404936, and 404942) and one lake (404934). The lake sample, with 8.38 ppb uranium, has the highest uranium content found in water in the entire report area. Three waters collected in the vicinity of the radiometric anomaly identified north-east of Jade Mountain³³ contain above-average concentrations of uranium but are considerably below the defined anomaly threshold.

Uranium in Sediments

The vast majority of sediments collected in the study area have uranium concentrations that are between 1 and 5 ppm, with a mean value for the entire population of 2.7 ppm (Fig. 6). There are only 10 samples that are anomalous $\geq$ (5.5 ppm), using the mean plus two standard deviations as the anomaly threshold (see Table II). Because the range of uranium in these sediments is quite narrow (only two samples have more than 6.7 ppm uranium), the contrast in symbol sizes on the concentration overlays, Plates I-B, II-B, and III-B in the rear pocket, is not very distinct. The overlays do, however, show graphically that the uranium in these sediments is quite evenly distributed throughout the area. Since the sediment is derived largely from bedrock, uranium would appear to be fairly evenly distributed in the various lithologic units as well.

In the Noatak quadrangle, the only two sediments with anomalously high uranium (404033 and 404050) are neither associated with one another nor with other high sediments. Location 404050, however, is situated in the Hugo Creek area, which contains high-uranium waters (in the southeast corner of the quadrangle), and that would tend to support a follow-up study there. The remaining sediments in the Noatak quadrangle are not anomalous as defined, and in fact indicate an even distribution throughout its areal extent.

In the Baird Mountains quadrangle, the uranium content of the sediments is also fairly evenly distributed, except for a few scattered high values. There are two local areas where the sediments may be reflecting increased uranium mineralization. Three locations in the southwest corner of the

TABLE II

SEDIMENT SAMPLES WITH ANOMALOUS URANIUM CONCENTRATIONS (>5.5 PPM)
COLLECTED IN THE NOATAK AND PORTIONS OF THE BAIRD MOUNTAINS
AND AMBLER RIVER NTMS QUADRANGLES, ALASKA

<u>LASL Sample Location No.</u> ^a	<u>Source</u> ^b	<u>Latitude</u>	<u>Longitude</u>	<u>Uranium Concentration (in ppm)</u>
404033	S	67° 46' 04"	162° 13' 00"	5.9
404050	S	67° 15' 46"	162° 21' 00"	6.5
404616	S	67° 06' 36"	158° 30' 24"	11.2
404618	L	67° 10' 45"	158° 35' 36"	6.7
404680	S	67° 03' 24"	158° 39' 44"	6.0
404851	L	67° 07' 48"	161° 58' 10"	5.5
404860	S	67° 11' 45"	161° 91' 02"	6.0
404881	S	67° 17' 10"	160° 08' 46"	6.0
404883	S	67° 13' 12"	159° 57' 54"	5.7
405031	S	67° 19' 15"	159° 28' 36"	34.0

^a The data presented for these locations, along with supplementary field measurements and observations, are to be found in Appendix C with those for all other sediments collected.

^b L = Lake sample; S = Stream sample

quadrangle (404852, 404059, and 404860, with 5.2, 4.3, and 6.0 ppm uranium, respectively) are all located on an unnamed tributary of the Squirrel River. All are in the headwater area of a drainage that flows northeast from a hill about 12 km north of the Hotham Inlet. The area is mapped on a reconnaissance basis as Devonian- to Mississippian-aged sedimentary rocks that include dolomite, limestone, sandstone, and shale.²⁵ One lake sediment sample, collected just south of the same hill (404851 with 5.5 ppm uranium) is also anomalous and might be reflecting above-average uranium mineralization upslope.

The second locality where the sediments may be indicating increased uranium mineralization is along and just east of the Tutuksuk River, about 20 km north of its confluence with the Kobuk River. Here, sediments from locations 404839 to 404841 have above-average uranium contents (all 4.1 ppm). By themselves, these values would not appear highly significant; but just southeast, in a stream that drains the same upland area, the sediment from sample location 405031 has a uranium content of 34.0 ppm, the highest found in the entire study area. The lithologies in this area are mapped as Jurassic, Triassic, and Permian volcanic rocks. Oddly, these volcanics are described as mafic types such as basalts, diorites, and gabbros, rocks which typically have low natural uranium content (normal crustal abundances range from 0.001 ppm for the very mafic rocks to 3.4 ppm for the least mafic).⁴⁰ Since the

a. All sediments

b. Wet stream sediment

c. Wet natural pond sediment

Fig. 6. Histograms and statistical data for uranium concentrations in sediment samples.

geologic mapping in this area is on a reconnaissance basis, it is possible that the mafic volcanics do not occur everywhere across the area. Additional field work is needed to determine the source and significance of the uranium in these sediments.

There is a third general area in the Baird Mountains quadrangle where the sediments may be reflecting increased uranium mineralization. This is on the east side of the Kallarichuk Hills. Two sediment samples collected along the Kallarichuk River, from locations 404881 (6.0 ppm) and 404883 (5.7 ppm), are anomalous. Though not anomalous as defined, the sediment from a third location in that same vicinity (404885), on an unnamed tributary of the Kitlik River, is high enough (4.4 ppm) to be interesting in view of the two nearby locations providing anomalous sediments. Sediments from other locations in this general vicinity are not high enough in uranium to be noteworthy. The geology here is mapped on a reconnaissance basis as Paleozoic sedimentary rock with a small outcrop of mafic igneous rock between locations 404883 and 404885.

There are a few scattered sediment locations in the headwater areas of the Salmon and Tutuksuk Rivers (in the same general vicinity as numerous waters having high-uranium contents); however, none are anomalous using the 5.5 ppm cutoff. It is interesting to note that in similar studies south of this area by Eakin (1977),⁴¹ Sharp and Hill (1978),^{42,43} and Warren and others (1978)⁴⁴, granitic plutons such as that forming the core of the Baird Mountains, and which outcrop just north of this area, often have definite clusters of high-uranium sediments. In this area, no such well-defined cluster is evident in the sediments, but a definite cluster is seen in the waters. There are several possible explanations that might account for this situation. One may be that the uranium minerals in this area are readily complexed to water-soluble forms leaving the near-surface rocks and sediments relatively barren. Another possibility is that the granitic rocks mapped along the northern boundary of the survey area do not extend into the drainage of the south-flowing streams. If this is the case, they would not be contributing much granitic detritus to the bottom-sediment load of these southern drainages. It is also possible that the granitic rocks in this area do not contain a high content of uranium minerals, as is the case with a few granitic plutons farther south.^{43,44} There are, of course, other possible reasons for the waters and sediments in this area to have dissimilar uranium concentrations, but they cannot be ascertained on the basis of these data and only limited geologic information.

In the Ambler River quadrangle, there are three locations providing anomalous sediment samples (404616, 404618, and 404680, with 11.2, 6.7, and 6.0 ppm uranium, respectively) south of the Kobuk River and north of the Waring Mountains. Locations 404616 (a stream) and 404618 (a lake) are in an area mapped as undifferentiated Quaternary drift.²⁵ Location 404680 is on a stream that flows north through the eastern end of the Great Kobuk Sand Dunes. Southeast of location 404680, there are two additional stream sediment locations on small drainages off the Waring Mountains that have above-average uranium contents (404644, with 4.5 ppm, and 404665, with 5.4 ppm). These locations, as well as the anomalous sediments from streams just to the north, may be reflecting uranium mineralization in a quartz-pebble conglomerate exposed in the Waring Mountains. Immediately south of the Waring Mountains, high-uranium sediments that appear related to the same conglomerate have been reported by Warren and others.⁴⁴ Based on the results of this study and data presented by Warren, this area would appear to be favorable for follow-up field investigation. Sediment samples collected in other parts of the

southwest corner of the Ambler River quadrangle do not show noteworthy uranium concentrations. The single airborne radiometric anomaly identified in the vicinity of 158° 14' N, 67° 18' W by Matzko and Fraeman (1955),³¹ is not reflected in the HSSR sediments collected there.

VII. SUMMARY AND CONCLUSIONS

Water samples were collected from 660 stream and 216 lake or pond sites, at a nominal density of one location per 23 km², throughout the land portion of the Noatak NTMS quadrangle, the southern two-thirds of the Baird Mountains NTMS quadrangle, and the southwest one-sixth of the Ambler River NTMS quadrangle. The uranium concentrations of these waters ranged from below the detection limit (listed as 0.01 ppb in Appendix B) to 8.38 ppb. Clusters of high-uranium waters occur at several locations within the study area in association with Paleozoic sedimentary rocks and apparently with Cretaceous granite in the Baird Mountains. The significance of these clusters cannot be ascertained without additional information about the local geology, mineralogy, hydrology, etc., that can only be acquired in the field. On the basis of the limited evaluation presented herein, follow-up field work is suggested at a few locations within the study area.

Sediment samples were collected from 658 stream locations, including 3 dry streams, and from 200 lakes or ponds, generally from the same sites as the waters. For the most part, the sediments have a narrow range of uranium concentrations, with the majority falling between 1 and 5 ppm. Sediment samples considered to be anomalous (≥ 5.5 ppm) only occasionally come from locations in close proximity with one another anywhere in the study area. One of the most interesting areas, based both on the sediment data in this report and information in a HSSR report by Warren and others (1978),⁴⁴ is along the north flank of the Waring Mountains, near the southwestern border of the Ambler River quadrangle. A quartz-pebble conglomerate mapped in that area and apparently associated with these sediments looks sufficiently interesting to warrant additional field investigation. Two areas within the Baird Mountains quadrangle provide high-uranium sediments from closely adjacent sites and may likewise warrant additional field investigation. Nowhere in the study area do the high uranium waters and sediments show distinct areal associations.

On the basis of the limited evaluations presented herein, follow-up field work is suggested at only a few locations within the study area. However, more detailed evaluations might well identify additional areas of interest for further work.

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APPENDIX A

SUMMARY OF STANDARD LASL HSSR FIELD AND ANALYTICAL PROCEDURES

APPENDIX A

SUMMARY OF STANDARD LASL HSSR FIELD AND ANALYTICAL PROCEDURES AS USED IN ALASKA

I. FIELD PROCEDURES

Water Sampling

Water samples are taken first, directly from the source wherever possible, in one each, prewashed and sealed, 41-ml reactor "rabbit" and 25-ml vial (both polyethylene). The contents of both the rabbit and vial are then acidified to a $\text{pH} \leq 1$ with 8N, reagent-grade HNO_3 . All sample containers are doubly labeled with preprinted, adhesive labels carrying the same sample location number preprinted on the field data form. Stream waters are taken from fast-flowing current away from the bank; ponds (including small lakes) are sampled from just below the surface, near their center.

Sediment Sampling (Wet or Dry)

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 closely adjacent spots at each stream location. This is done with a polyethylene scoop, after the water sample (if any) is taken. The sediment is put into a new, clean, and originally sealed, rip-top polyethylene bag and properly double-labeled for delivery (with the field data form) to the contractor's drying facility. After drying at $\leq 100^\circ\text{C}$, each sample is sieved through stainless steel sieves to -100 mesh. The -100-mesh fraction is put into a prewashed, 25-ml polyethylene vial, appropriately double-labeled (using labels from the data form), and sealed for shipment to the LASL. In the case of ponds or lakes sampled in Alaska, the sediment is taken by dropping a tethered, stainless steel bottom sampler overboard from a pontoon-equipped helicopter near the center of each lake. Here, only a bottom sample from a single location is taken (i.e., it is not a composite), but 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 polyethylene bag, labeled, and treated as above.

Field Measurements

The air temperature, taken 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-tenth degree Celsius. All temperature measurements are made with quality, precalibrated thermometers. 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 specific conductance ($\mu\text{mho/cm}$) of the source water is measured with a calibrated, temperature compensated (25°C) portable meter. The scintillometer readings, taken on a flat, dry spot within a few meters of the sample location, are measured with a portable scintillometer. 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 a calibration factor obtained from testing of the specific scintillometer on a calibration block) to give the equivalent uranium (J) value set forth in the

data listing. Special measurements such as dissolved oxygen are made with a calibrated, portable meter and probe especially designed and commercially available for the purpose. In general, in the case of lakes, the water temperature, pH, specific conductance and (special) dissolved oxygen are all measured with a single, digital readout unit, utilizing a parameter selector switch and a composite probe lowered to just below the water surface from the sampling helicopter. Care is taken to see that this is done before the bottom sediment is disturbed.

Field Observations

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

Sample Location Verification

Each contractor is supplied 1:250 000-scale field maps with the desired sample types and general locations symbolically premarked at the LASL. The maps are normally original NTMS quadrangles, available through the USGS. As each location is sampled, a unique sample location number, preprinted on transparent adhesive labels (used for labeling the samples) provided with identically numbered field data forms, is inked alongside the precisely marked point representing the sample site on the field map. The latitude and longitude of each location is then computed within 48 h by the sampling contractor. Every location is later checked (and corrected if necessary) at the LASL by overlaying computer-produced location plots on the field maps used. The computer program for the Universal Transverse Mercator map projection utilized is described by Cheadle.⁴⁵ The latitudes and/or longitudes are corrected if the overlay locations are displaced by more than 300 m from the locations marked on the field maps. When a desired sample as specified cannot be obtained, an alternate sample type is taken, and the new sample type is marked on the field map and properly labeled as above.

II. ANALYTICAL PROCEDURES

Water Samples Analyzed for Uranium by Fluorometry

In a controlled laboratory environment, two NaF (98%)-LiF (2%) flux pellets are prepared and placed on platinum dishes. The 25-ml water vial is vigorously shaken and two 0.20-ml aliquots of water are withdrawn and dropped onto the flux pellets, then evaporated under a heat lamp. The sample fluxes are then heated until fused. After they cool, they are excited with ultraviolet radiation in the fluorometer, and the measured fluorescence of each is read, recorded, and put through a computer routine using standards and blanks run at the same time to obtain the two uranium concentrations. The single uranium concentration of the water samples given in the data listing is the average obtained from the duplicate aliquots. The lower limit of detection for each aliquot by the normal procedure is 0.2 ppb, but in high latitude areas, natural waters often have uranium concentrations below this. Consequently, when a sample run by the normal procedure is found to have <0.2 ppb

uranium, it is routinely put through another evaporative concentration step that provides a 10X concentration factor, again using duplicate aliquots. By this additional procedure, but using the same basic fluorometric method (as described by Hues and others)⁴⁶, the lower limit of detection of uranium in natural waters is reduced to 0.02 ppb, and when a lower concentration is found in an aliquot, it is arbitrarily averaged into the data listings as 0.01 ppb. Therefore, whenever the uranium concentration in a water sample run by fluorometry is given as some value less than 0.02 ppb, one of the two aliquots had a uranium concentration that was too low to detect. If the listed uranium value is 0.01 ppb, both aliquots were below the detectable limit. Analytical precision at the lower limit of detection is ~30%; however, it improves to 10% one order of magnitude above the lower limit. Water samples with uranium concentrations in excess of 10 ppb (the upper limit of detection without recalibration), or which gave problems when run by fluorometry, were analyzed using the DNC technique described below.

Water Samples Analyzed for Uranium by Delayed-Neutron Counting

Only waters with 10 ppb uranium, or those with impurities that cause quenching of uranium induced fluorescence, are normally assayed using DNC. The exteriors of the 41-ml rabbits are thoroughly cleaned before analysis of the samples. Samples received in 25-ml vials (used exclusively in some of the early work) 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 rabbits are then loaded into a 25-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked, and the system is calibrated using four standards. The transfer clip is installed on the pneumatic feed line, and the count control is set (typically, a 60-s irradiation, a 30-s delay, and a 60-s count sequence is used, but this can be changed to accommodate abnormally high or low uranium concentrations). The samples are cycled through the system and the uranium concentration is automatically measured, computed in ppb, and entered into the data base. Analytical precision for those few waters analyzed by the DNC method is as good or better than that by fluorometry.

Statistical treatments of uranium concentrations obtained on the same suites of samples both by fluorometry and DNC have shown that there is no significant difference between results of the two analytical methods as used at the LASL. This analytical comparability is rechecked periodically.

Uranium Analysis of Sediment Samples

All sediment samples are analyzed for total uranium by DNC. A split of each sample (dried and sieved as described) is transferred to a clean 4-ml rabbit, weighed (less the tare), and recorded along with the appropriate location number. The readied rabbits are loaded into a 50-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked, and the system is calibrated using four standards. The transfer clip is installed and the count control is set (typically, a 20-s irradiation, a 10-s delay, and a 20-s count sequence is used). The samples are cycled through the system and the uranium concentration is automatically measured, computed in ppm, and entered into the data base. The lower limit of detection of this method is 0.5 ppb (not ppm) uranium and is so low that it has never been reached with a natural sediment sample. The precision is 4% or better for all DNC sediment analyses. The delayed-neutron detectors especially designed and built by the LASL and used for these analyses are described by Balestrini and others.⁴⁷

APPENDIX B

LISTINGS OF FIELD DATA AND URANIUM CONCENTRATIONS FOR WATER SAMPLES

(See Appendix D for Code to Listings)

APPENDIX B. Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER				LAST SAMPLE LOCATION NUMBER AND FIELD DATA													U CONCENTRATION														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (cpm)	BOY TYPE	POY COLOR	SEDIMENT COLOR	WATER FLOW	WATER TYPH	WATER COLOR	SIFM CHANNEL TYPE	VEGETATION TYPE	PLANTS	WEATHER	CONTAMINANTS	WELL TYPE	WELL DEPTH (feet)	WATER D. (feet)	WATER ANALYZED BY FLUORIMETRY OR DMC *	UNITS IN DOG
							DATE	HOUR																							
02-67	0314-162	4267-2-29				0-404001-08/12/76-14	15-16.6	-5	8.4	72	-2-7-6-6	-3-2	-3-2	-2-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	
02-67	0333-162	3256-2-29				0-404002-08/12/76-14	15-16.7	-5	8.5	87	-2-7-6-6	-3-2	-3-2	-2-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27
02-67	0569-162	4361-2-29				0-404003-08/12/76-14	18-16.4	-5	7.9	54	-2-7-6-6	-3-1	-3-2	-2-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
02-67	0567-162	3000-2-29				0-404004-08/12/76-14	18-16.8	-5	8.1	78	-2-7-6-6	-3-1	-3-2	-2-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12
02-67	1100-162	3133-2-29				0-404005-08/12/76-14	18-16.5	-5	8.1	36	-2-7-6-6	-3-2	-3-2	-2-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21
02-67	1361-162	2900-2-29				0-404006-08/12/76-14	18-16.7	-8	8.0	32	-2-7-6-6	-2-1	-3-2	-2-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12
02-67	1958-162	2600-2-27				0-404007-08/12/76-14	20-14.2	-	7.9	210	-3-7-6-6	-2-1	-3-3	-2-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.99
02-67	2300-162	1400-2-27				0-404008-08/12/76-14	18-14.8	-	7.9	210	-3-7-6-6	-3-1	-2-1	-3-3	-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.34
02-67	2333-162	1873-2-27				0-404009-08/12/76-14	20-15.0	-	7.9	210	-3-7-6-6	-3-1	-2-1	-3-3	-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.48
02-67	2444-162	3133-2-27				0-404010-08/12/76-14	20-14.9	-	7.8	290	-3-7-6-6	-3-1	-2-1	-3-3	-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.77
02-67	2867-162	2733-2-27				0-404011-08/12/76-14	19-14.7	-C	6.8	320	-3-7-6-6	-3-1	-2-1	-3-3	-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
02-67	2833-162	1767-2-27				0-404012-08/12/76-14	20-14.3	-C	6.6	320	-3-7-6-6	-3-1	-2-1	-3-3	-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20
02-67	3158-162	2267-2-27				0-404013-08/12/76-14	20-13.5	-	6.6	320	-3-7-6-6	-3-1	-2-1	-3-3	-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.18
02-67	3333-162	1267-2-27				0-404014-08/12/76-14	20-13.7	-	7.0	200	-3-6-6-6	-3-2	-1-3	-4-2	-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.95
02-67	3733-162	2667-2-27				0-404015-08/12/76-14	20-12.2	-	6.2	340	-2-7-6-6	-2-2	-1-3	-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26
02-67	3856-162	1233-2-27				0-404016-08/12/76-15	20-14.0	-	6.8	350	-2-7-6-6	-2-2	-1-3	-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35
02-67	4000-162	1750-2-27				0-404017-08/12/76-15	19-12.8	-	6.5	310	-2-7-6-6	-3-1	-2-1	-3-3	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25
02-67	4047-162	2767-2-27				0-404018-08/12/76-15	20-12.9	-	6.8	340	-2-7-6-6	-3-1	-2-1	-3-3	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29
02-67	4567-162	1567-2-27				0-404020-08/12/76-15	19-14.0	-	6.4	310	-2-7-6-6	-3-1	-2-1	-3-3	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.07
02-67	4833-162	2700-2-27				0-404021-07/12/76-15	18-14.5	-	6.8	340	-2-7-6-6	-2-2	-1-3	-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.07
02-67	4994-162	1933-2-27				0-404022-08/12/76-15	19-14.5	-	7.0	290	-2-7-6-6	-2-2	-1-3	-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13
02-67	5356-162	2467-2-27				0-404023-08/12/76-15	20-13.9	-	6.8	340	-2-7-6-6	-3-1	-2-1	-3-3	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72
02-67	5406-162	0700-2-27				0-404024-08/12/76-15	20-14.5	-	6.9	310	-2-7-6-6	-3-1	-2-1	-3-3	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15
02-67	5869-162	1933-2-27				0-404025-08/12/76-15	17-13.8	-	6.4	190	-3-7-6-6	-3-2	-1-3	-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45
02-67	5900-162	0600-2-27				0-404026-08/12/76-15	19-14.2	-	6.7	270	-2-7-6-6	-2-2	-1-3	-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
02-67	6133-162	1800-2-27				0-404027-08/12/76-15	19-13.9	-	6.6	280	-2-7-6-6	-2-2	-1-3	-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31
02-67	6233-162	1333-2-27				0-404028-08/12/76-15	20-14.0	-	6.5	280	-2-7-6-6	-2-2	-1-3	-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15
02-67	6833-162	1000-2-27				0-404029-08/12/76-15	19-15.0	-	6.8	270	-3-6-6-6	-2-3	-1-2	-3	-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.21
02-67	6733-162	2433-2-27				0-404030-08/12/76-15	19-14.7	-	7.0	270	-3-6-6-6	-2-3	-1-2	-3	-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40
02-67	7200-162	1900-2-27				0-404031-08/12/76-15	19-13.8	-	7.0	290	-3-7-6-6	-3-1	-2-3	-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24
02-67	7011-162	0528-2-27				0-404032-08/12/76-15	19-13.5	-	7.0	290	-3-7-6-6	-3-1	-2-3	-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14
02-67	7978-162	2197-2-27				0-404033-08/12/76-16	19-14.5	-	6.4	210	-3-7-6-6	-3-1	-2-3	-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.44
02-67	7683-162	1267-2-27				0-404034-08/12/76-16	23-14.0	-	6.6	190	-3-7-6-6	-3-1	-1-3	-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46
02-67	8061-162	2367-2-27				0-404035-08/12/76-16	22-14.0	-	6.8	240	-3-7-6-6	-3-1	-1-3	-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19
02-67	8433-162	2103-2-27				0-404036-08/12/76-16	22-14.0	-	6.8	250	-3-7-6-6	-3-1	-2-1	-3	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.48
02-67	8317-162	3125-2-27				0-404037-08/12/76-16	18-14.5	-	6.6	190	-3-7-6-6	-3-1	-2-3	-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
02-67	7983-162	3017-2-27				0-404038-08/12/76-16	20-14.3	-	6.6	180	-3-7-6-6	-3-1	-2-3	-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08
02-67	7567-162	3033-2-27				0-404039-08/12/76-16	20-14.5	-	6.6	190	-3-7-6-6	-3-1	-2-3	-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.43
02-67	7167-162	3328-2-27				0-404040-08/12/76-16	20-14.0	-	6.6	170	-3-7-6-6	-3-1	-2-3	-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09
02-67	6800-162	2967-2-27				0-404041-08/12/76-16	20-14.0	-	6.9	280	-2-7-6-6	-2-2	-1-2	-4	-3	-2	-2	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23
02-67	6997-162	3500-2-27				0-404042-07/12/76-16	20-18.6	-	7.1	295	-2-7-6-6	-2-2	-1-2	-4	-3	-2	-2	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08
02-67	5553-162	3333-2-27				0-404043-08/12/76-16	20-16.8	-	7.1	295	-2-7-6-6	-2-2	-1-2	-4	-3	-2	-2	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16
02-67	5383-162	3500-2-27				0-404044-08/12/76-17	19-14.9	-	6.6	260	-2-7-6-6	-2-3	-1-2	-3	-3	-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20
02-67	5025-162	4033-2-27				0-404045-08/12/76-17	20-14.8	-	6.6	270	-2-7-6-6	-2-2	-1-2	-3	-3	-2															

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER				LASI SAMPLE LOCATION NUMBER AND FIELD DATA										U CONCENTRATION																																																																																																																																																																																																																																																																																																																																																																													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASI SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (umho/cm)	SCHEMATIC	BORE TYPE	SEDIMENT TYPE	WATER COLOR	WATER TASTE	WATER ODOR	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER TASTE	WATER

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER					LASI SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASI SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (d.u. ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CON-AMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (a)	UNITS IN ppb
							DATE	HOUR																											
02-67	8883-162	8300-2-27	0-404104-08/13/76-10	11-13.0	-	6.6	110	-3-4-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15		
02-67	9256-162	8433-2-27	0-404105-08/13/76-10	11-11.9	-	6.6	170	-3-6-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	9283-162	7039-2-27	0-404106-07/13/76-10	11-12.4	-	6.6	140	-3-4-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10	
02-67	9600-162	6933-2-27	0-404107-08/13/76-10	10-11.8	-	6.4	230	-3-7-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
02-67	9983-162	8200-2-27	0-404108-08/13/76-10	10-11.0	-	6.6	190	-3-7-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20	
02-67	9633-162	1150-2-29	0-404109-08/13/76-11	10-15.1	-S-	7.9	25	-3-7-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	
02-67	9667-162	0067-2-29	0-404110-08/13/76-11	10-15.4	-C-	8.0	36	-3-7-5-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49	
02-67	9217-162	1167-2-29	0-404111-08/13/76-11	10-15.3	-	8.4	86	-3-7-5-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	9383-162	0300-2-29	0-404112-08/13/76-11	11-15.0	-S-	7.9	83	-3-7-5-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
02-67	8900-162	1367-2-29	0-404113-08/13/76-11	11-15.0	-S-	8.8	67	-3-7-5-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.77	
02-67	8950-162	0500-2-29	0-404114-08/13/76-12	11-15.1	-C-S-	8.1	100	-3-7-6-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	5572-161	9367-2-29	0-404115-08/13/76-12	11-14.6	-C-S-	8.4	125	-3-7-7-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.34	
02-67	9783-161	713-2-29	0-404116-08/13/76-12	11-14.6	-C-S-	8.3	210	-3-7-7-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	
02-67	9833-161	6667-2-29	0-404117-08/13/76-12	11-14.3	-	8.5	123	-3-7-6-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	9872-161	5267-2-29	0-404118-08/13/76-12	11-14.9	-S-	8.1	97	-3-7-6-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	9233-161	8133-2-27	0-404119-08/13/76-12	11-14.0	-	6.6	310	-3-6-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
02-67	9400-161	9333-2-27	0-404120-08/13/76-12	10-13.9	-	6.6	270	-3-6-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25	
02-67	9033-161	9567-2-27	0-404121-08/13/76-12	10-14.0	-	6.6	270	-3-6-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.38	
02-67	9000-162	2267-2-29	0-404122-08/13/76-12	10-15.1	-S-	8.4	76	-3-7-6-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	7333-162	8967-2-27	0-404123-08/13/76-13	11-14.0	-	6.8	200	-3-6-4-6-3-3-1-2-1-4-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	
02-67	7500-162	8867-2-27	0-404124-08/13/76-13	11-14.1	-	6.6	190	-3-6-4-6-3-3-1-2-1-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
02-67	7550-163	0000-2-27	0-404125-08/13/76-13	11-14.0	-	6.8	200	-3-6-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42	
02-67	7167-163	0000-2-27	0-404126-08/13/76-13	11-13.1	-	6.6	200	-3-6-4-6-3-3-1-2-1-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
02-67	6817-163	0367-2-27	0-404127-08/13/76-13	11-14.0	-	6.6	80	-3-6-6-6-2-3-1-2-4-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.28	
02-67	6833-162	8667-2-27	0-404128-08/13/76-13	11-13.7	-	6.6	120	-3-6-6-6-2-3-1-2-4-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	
02-67	6167-162	8433-2-27	0-404129-08/13/76-13	11-13.1	-	6.8	70	-3-6-5-6-2-2-2-2-3-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
02-67	6200-162	9747-2-27	0-404130-08/13/76-13	10-12.0	-	6.4	110	-3-7-5-6-2-3-1-2-4-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.28	
02-67	5733-162	8633-2-27	0-404131-08/13/76-13	10-12.4	-	6.6	80	-3-7-4-6-2-2-1-2-4-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31	
02-67	5850-163	0233-2-27	0-404132-08/13/76-13	10-13.6	-	6.4	120	-3-7-4-6-2-3-1-2-4-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	
02-67	5350-162	9067-2-27	0-404133-08/13/76-13	12-13.1	-	6.6	125	-3-7-5-6-2-2-5-2-3-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55	
02-67	5517-163	0200-2-27	0-404134-08/13/76-13	12-11.0	-	6.2	125	-3-7-5-6-2-2-5-2-3-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.48	
02-67	5100-163	0767-2-27	0-404135-08/13/76-13	12-13.6	-	6.6	120	4-3-7-4-6-2-2-5-2-3-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	
02-67	5047-162	9517-2-27	0-404136-08/13/76-13	10-12.0	-	6.6	100	-3-7-4-6-2-2-5-2-3-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
02-67	4547-162	9200-2-29	0-404137-08/13/76-13	10-15.8	-S-	8.6	22	-3-7-6-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
02-67	4194-162	9208-2-29	0-404138-08/13/76-13	11-15.6	-S-	8.4	127	-3-7-6-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
02-67	3617-162	9267-2-29	0-404139-08/13/76-13	11-14.2	-	8.1	76	-3-6-5-6-3-3-1-2-4-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	
02-67	3200-162	9367-2-29	0-404140-08/13/76-13	11-14.9	-	8.6	28	-3-7-4-6-3-3-1-2-4-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
02-67	2633-162	9100-2-27	0-404141-08/13/76-14	12-11.0	-	6.8	280	-3-7-4-6-3-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.62	

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION					
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEAS. REMARKS	PH	SPECIFIC CONDUCTANCE (microhm/cm)	SCINTILLOMETER (nCi/gpm)	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 DMC (u)	UNITS IN PPM
							DATE	HOUR																											
02-67,9608-162,3708-2-27-						0-404155-08/12/76-21-	14-13.3-	-	8.3-	98-						14-2-7-4-6-2-3-1-2-4-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
02-67,9633-162,2667-2-27-						0-404156-08/12/76-21-	16-15.1-	-	8.5-	192-						7-2-7- - -2-3-1-2-4-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07
02-67,9433-162,3000-2-27-						0-404157-08/12/76-21-	13-13.8-	-	7.5-	215-						14-2-7-4-6-2-3-1-2-4-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07
02-67,9383-162,4667-2-29-						0-404158-08/12/76-22-	13-16.4-	-S-	8.0-	28-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25
02-67,9594-162,4867-2-29-						0-404159-08/12/76-22-	14-14.8-	-S-	8.6-	24-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22
02-67,9633-162,5833-2-27-						0-404160-08/12/76-22-	14- 5.8-	-	8.2-	137-						19-2-7-4-6-2-3-1-2-4-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25
02-67,9256-162,9839-2-27-						0-404161-08/12/76-22-	15-10.1-	-	7.9-	213-						16-2-7-4-6-2-3-1-2-4-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25
02-67,8933-162,5833-2-27-						0-404162-08/12/76-22-	13-11.1-	-	7.6-	150-						14-2-7-4-6-2-3-1-2-4-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18
02-67,8350-162,6333-2-29-						0-404163-08/12/76-22-	13-16.6-	-S-	8.6-	20-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
02-67,7850-162,6767-2-29-						0-404164-08/12/76-22-	14-16.1-	-S-	8.7-	30-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67,7650-162,6767-2-29-						0-404165-08/12/76-22-	13-16.7-	-S-	8.5-	51-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,7089-162,6667-2-29-						0-404166-08/12/76-22-	13-14.2-	-S-	8.4-	161-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16
02-67,6850-162,6767-2-29-						0-404167-08/12/76-22-	13-15.0-	-S-	8.7-	190-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18
02-67,6100-162,6950-2-29-						0-404168-08/12/76-22-	13-15.6-	-S-	8.7-	28-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19
02-67,5933-162,7133-2-29-						0-404169-08/12/76-22-	12-13.1-	-S-	7.9-	42-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25
02-67,5217-162,6933-2-29-						0-404170-08/12/76-22-	12-15.3-	-S-	8.3-	77-						-2-7- - - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,4767-162,7500-2-29-						0-404171-08/12/76-22-	13-15.0-	-S-	7.9-	112-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67,4533-162,7372-2-29-						0-404172-08/12/76-22-	13-16.1-	-S-	7.8-	59-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,1050-162,7533-2-29-						0-404173-08/12/76-22-	12-13.9-	-S-	8.2-	203-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.43
02-67,0750-162,7500-2-29-						0-404174-08/12/76-22-	12-14.0-	-S-	8.5-	290-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.93
02-67,0900-162,8467-2-29-						0-404175-08/12/76-23-	12-13.5-	-S-	7.9-	400-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61
02-67,0667-162,8667-2-29-						0-404176-08/12/76-23-	12-13.8-	-	8.1-	381-						-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.66
02-67,0400-162,1933-2-29-						0-404177-08/13/76-	8- 10-15.3-	-S-	8.8-	111-						-3-7-4-7- -3-1-	-3-2-2-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
02-67,0267-162,1333-2-29-						0-404178-08/13/76-	8- 10-15.5-	-S-	8.4-	107-						-3-7-4-7- -3-1-	-3-2-2-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23
02-67,0567-162,1667-2-29-						0-404179-08/13/76-	8- 10-15.5-	-S-	8.5-	124-						-3-7-5-6- -3-1-	-4-3-2-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20
02-67,0550-162,0667-2-29-						0-404180-08/13/76-	8- 10-15.5-	-	8.6-	130-						-3-7-4-6- -3-1-	-3-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20
02-67,1000-162,1867-2-27-						0-404181-08/13/76-	8- 11-11.5-	-	6.8-	120-						-3-7-6-6-2-3-5-1-	-4-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20
02-67,1033-162,1000-2-27-						0-404182-08/13/76-	8- 10-11.7-	-	6.9-	210-						-3-7-6-6-2-3-5-1-	-3-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,1383-162,1883-2-27-						0-404183-08/13/76-	8- 10-12.0-	-	6.8-	310-						-3-7-6-6-1-3-5-1-	-3-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
02-67,1400-162,0767-2-27-						0-404184-08/13/76-	8- 10-11.5-	-	6.4-	350-						-3-7-6-6-2-3-5-1-	-3-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
02-67,2017-162,0633-2-27-						0-404185-08/13/76-	9- 10-10.5-	-	6.2-	125-						-3-7-4-6-3-3-1-	-2-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42
02-67,1556-162,0319-2-27-						0-404186-08/13/76-	8- 10-10.5-	-	6.6-	163-						-3-7-4-6-3-3-1-	-2-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,2433-162,0767-2-27-						0-404187-08/13/76-	9- 10-10.3-	-	6.5-	190-						-3-7-4-6-3-3-1-	-2-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.43
02-67,2722-162,0894-2-27-						0-404188-08/13/76-	9- 10-11.0-	-	6.2-	140-						-3-7-4-4-3-3-1-	-2-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,2933-162,3367-2-29-						0-404189-08/13/76-	9- 10-15.9-	-S-	8.7-	74-						-3-7-4-7- -3-1-	-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
02-67,3389-162,7958-2-29-						0-404190-08/13/76-	9- 10-16.4-	-	8.8-	103-						-3-7-4-7- -3-1-	-3-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08
02-67,3683-162,7933-2-29-						0-404191-08/13/76-	9- 10-15.5-C-	-S-	8.9-	105-						-3-7- - - -3-1-	-3-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40
02-67,4167-162,8133-2-29-						0-404192-07/13/76-	9- 10-15.5-C-	-	8.6-	127-						-3-7- - - -3-1-	-3-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
02-67,4367-162,8183-2-29-						0-404193-08/13/76-	9- 10-15.3-	-S-	8.6-	61-						-3-7- - - -3-1-	-3-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
02-67,4833-162,8167-2-29-						0-404194-08/13/76-	9- 11-15.5-	-	8.7-	101-						-3-7-4-6- -3-1-	-3-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
02-67,5350-162,8000-2-29-						0-404195-08/13/76-	9- 10-14.9-	-S-	8.5-	28-						-3-7-5-6- -3-1-	-3-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41
02-67,5733-162,7500-2-29-						0-404196-08/13/76-	9- 11-15.2-	-	8.2-	78-						-3-7-4-6- -3-1-	-3-2-2-3-																		

APPENDIX B (continued). Field Data and 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		A.P. TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (c.u. ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	REL. HUMIDITY	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER INCHES	WELL DEPTH FEET	WATER DEPTH FEET	WATER SAMPLES ANALYZED BY FLUORESCOMETRY OR DDC (u)	UNITS IN PPB	
							DATE	HOUR																												
02-67	2206-163	2500-2-27-				0-404206-08/13/76-16-	14-12.5-	-	7.4-	175-	-2-6-	-6-2-3-1-2-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45		
02-67	2114-163	3028-2-27-				0-404207-08/13/76-16-	14-10.0-	-	7.4-	190-	-2-6-4-6-2-3-1-2-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
02-67	2067-163	3500-2-27-				0-404208-08/13/76-16-	14-10.5-	-	7.6-	200-	-2-6-4-6-2-3-1-2-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37	
02-67	2758-163	1272-2-29-				0-404209-08/13/76-16-	14-15.2-	-	9.6-	9-	-2-7-6-6-	-3-2-	-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.28	
02-67	3290-163	1600-2-29-				0-404210-08/13/76-16-	14-15.8-	-	9.5-	19-	-2-7-6-6-	-3-2-	-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06	
02-67	2450-163	0800-2-27-				0-404211-08/13/76-16-	14-15.0-	-	7.8-	212-	-2-6-5-6-2-3-1-2-4-2-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.34	
02-67	2717-163	0903-2-27-				0-404212-08/13/76-16-	14-15.0-	-	7.6-	200-	-2-6-5-6-2-3-1-2-4-2-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29	
02-67	3206-163	0550-2-27-				0-404213-08/13/76-16-	14-14.6-	-	8.0-	275-	-2-6-	-6-3-3-1-2-3-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	
02-67	3667-163	096-2-29-				0-404214-08/13/76-16-	14-17.0-	-	9.1-	62-	-2-7-	-6-	-3-2-	-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	
02-67	3758-163	1594-2-27-				0-404215-08/13/76-16-	14-14.6-	-	8.7-	277-	-2-6-	-6-3-3-1-2-1-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
02-67	4067-163	1439-2-27-				0-404216-08/13/76-16-	14-15.2-	-	8.3-	293-	-2-6-	-6-3-3-1-2-1-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	
02-67	4000-163	0833-2-29-				0-404217-08/13/76-16-	14-16.3-	-	8.7-	110-	-2-7-5-6-	-3-2-	-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	
02-67	4806-163	1339-2-29-				0-404218-08/13/76-16-	14-15.7-	-	9.0-	29-	-2-7-6-6-	-3-2-	-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
02-67	4583-163	1383-2-29-				0-404219-08/13/76-16-	14-16.7-	-	8.6-	103-	-2-7-6-6-	-3-2-	-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
02-67	4467-163	1017-2-29-				0-404220-08/13/76-16-	14-	-	8.4-	98-	-2-7-6-6-	-3-2-	-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	
02-67	5264-163	0894-2-27-				0-404221-08/13/76-16-	14-14.4-	-	8.5-	205-	-2-6-5-6-2-3-1-2-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
02-67	5233-163	2072-2-27-				0-404222-08/13/76-16-	14-	-	8.7-	201-	-2-6-5-6-2-3-1-2-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
02-67	5744-163	1233-2-27-				0-404223-08/13/76-16-	17-15.0-	-	8.7-	201-	-2-6-5-6-2-3-1-2-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	
02-67	5733-163	2542-2-27-				0-404224-08/13/76-	14-	-	8.9-	199-	-2-6-5-6-2-3-1-2-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	
02-67	6192-163	0861-2-27-				0-404225-08/13/76-17-	14-11.6-	-	8.6-	450-	-2-6-6-6-2-3-1-2-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	
02-67	6367-163	2233-2-27-				0-404226-08/13/76-17-	14-12.4-	-	8.8-	428-	-2-6-6-6-2-3-1-2-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	6700-163	1017-2-27-				0-404227-08/13/76-17-	14-10.8-	-	8.2-	160-	-2-6-5-6-2-3-1-2-3-3-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	
02-67	7069-163	1917-2-27-				0-404229-08/13/76-17-	17-	-	8.4-	164-	-2-6-5-6-2-3-1-2-3-3-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	7292-163	1461-2-27-				0-404230-08/13/76-17-	17-12.4-	-	7.7-	165-	-2-6-6-6-2-3-1-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	
02-67	7561-163	1000-2-27-				0-404231-08/13/76-17-	17-13.2-	-	7.5-	170-	-2-6-6-6-2-3-1-2-3-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08	
02-67	7867-163	0136-2-27-				0-404232-08/13/76-17-	17-11.6-	-	7.8-	220-	-2-6-5-6-2-3-1-2-3-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	
02-67	8000-163	0733-2-27-				0-404233-08/13/76-17-	17-12.1-	-	7.6-	215-	-2-6-5-6-2-3-1-2-3-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
02-67	7861-162	8667-2-29-				0-404234-08/13/76-17-	17-16.3-	-	9.1-	8-	-2-7-	-	-3-2-	-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06
02-67	8300-162	8833-2-27-				0-404235-08/13/76-17-	17-10.8-	-	7.8-	185-	-2-6-5-6-2-3-1-2-1-2-7-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50	
02-67	8319-162	9653-2-27-				0-404236-08/13/76-17-	17-11.0-	-	7.9-	179-	-2-6-5-6-2-3-1-2-1-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
02-67	8900-162	9267-2-27-				0-404237-08/13/76-17-	17-15.1-	-	7.8-	103-	-2-5-5-6-2-3-1-2-3-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20	
02-67	9233-162	9167-2-27-				0-404238-08/13/76-17-	17-14.9-	-	7.9-	101-	-2-6-5-6-2-3-1-2-3-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	8736-163	0375-2-27-				0-404239-08/13/76-18-	17-12.8-	-	7.6-	172-	-2-6-4-6-2-3-1-2-4-2-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
02-67	9300-163	0367-2-27-				0-404240-08/13/76-18-	17-12.8-	-	7.8-	180-	-2-6-4-6-2-3-1-2-4-2-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
02-67	9600-163	0283-2-27-				0-404241-08/13/76-18-	17-12.5-	-	6.8-	350-	-2-6-4-6-2-3-1-2-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	
02-67	9750-162	9500-2-27-				0-404242-08/13/76-18-	17-13.0-	-	6.6-	345-	-2-6-4-6-2-3-1-2-4-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.59	
02-67	9419-163	1700-2-27-				0-404243-08/13/76-18-	17-11.8-	-	7.8-	312-	-2-6-4-6-3-3-1-2-3-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.56	
02-67	9700-163	2067-2-27-				0-404244-08/13/76-18-	17-11.5-	-	7.8-	310-	-2-6-4-6-3-3-1-2-3-2-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	
02-67	9711-163	3000-2-27-				0-404245-08/13/76-18-	17-11.4-	-	8.2-	179-	-2-6-4-6-3-3-1-2-3-2-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.87	
02-67	9372-163	3283-2-27-				0-404246-08/13/76-18-	17-9.2-	-	8.1-	162-	-2-6-4-9-3-3-1-2-3-3-1-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.	

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASZ SAMPLE LOCATION NUMBER AND FIELD DATA														U CONCENTRATION												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASZ SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCATLIGHT OMETER (au ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	W. TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (+) UNITS IN
							DATE	HOUR																								
02-67	8863-163	5083-227				0-404258-08/13/76-18		16-11.6	-5	7.6	158	-2-7-6-7-3-3-1-2-4-2-2-3-1-1	0.26																			
02-67	8928-163	1800-227				0-404259-08/13/76-20		17-12.6	-5	7.8	80	-2-6-6-6-2-3-1-2-4-3-1-3-1	0.20																			
02-67	8722-163	3667-227				0-404260-08/13/76-20		16-10.2	-8.0	8.0	220	-2-4-6-6-2-3-1-2-3-2-3-3-1	0.03																			
02-67	8772-163	4039-227				0-404261-08/13/76-20		16-10.4	-8.1	8.1	215	-2-4-6-6-2-3-1-2-3-2-3-3-1	0.10																			
02-67	8500-163	2200-227				0-404262-08/13/76-20		16-10.1	-8.2	8.2	225	-2-4-6-6-2-3-1-2-3-2-3-3-1	0.04																			
02-67	8481-163	1233-227				0-404263-08/13/76-20		16-9.2	-7.6	7.6	10	-2-4-6-6-2-3-1-2-4-2-1-3-1	0.15																			
02-67	8150-163	2333-227				0-404264-08/13/76-20		16-9.8	-7.8	7.8	112	-2-4-6-6-2-3-1-2-3-2-4-3-2	0.34																			
02-67	8117-163	3633-227				0-404265-08/13/76-20		16-11.0	-8.1	8.1	525	-2-4-6-6-2-3-1-2-4-2-1-2-1	0.46																			
02-67	8433-163	3439-227				0-404266-08/13/76-20		17-11.2	-7.8	7.8	400	-2-4-6-6-2-3-1-2-4-2-1-2-1	0.12																			
02-67	7425-163	2667-227				0-404267-08/13/76-20		16-11.2	-7.8	7.8	140	-2-4-6-6-2-3-1-2-4-2-1-2-1	0.50*																			
02-67	7533-163	3428-227				0-404268-08/13/76-20		16-10.9	-8.0	8.0	149	-2-4-6-6-2-3-1-2-4-2-1-2-1	0.04																			
02-67	7300-163	4500-227				0-404269-08/13/76-20		16-3.2	-5	8.4	73	-2-6-5-6-3-1-2-3-2-3-2-1	0.14																			
02-67	6967-163	3533-227				0-404270-08/13/76-20		16-4.8	-8.6	8.6	48	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.06																			
02-67	6833-163	2900-227				0-404271-08/13/76-20		16-4.2	-5	8.5	49	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.01																			
02-67	6717-163	4792-227				0-404272-08/13/76-20		16-11.6	-8.0	8.0	420	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.07																			
02-67	6139-163	4178-227				0-404273-08/13/76-20		16-12.0	-8.0	8.0	250	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.16																			
02-67	5844-163	3467-227				0-404275-08/13/76-20		14-10.4	-7.6	7.6	220	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.02																			
02-67	5733-163	4457-227				0-404276-08/13/76-20		15-11.2	-8.2	8.2	205	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.19																			
02-67	5450-163	3625-227				0-404277-08/13/76-20		15-10.8	-8.0	8.0	218	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.79																			
02-67	5467-163	4600-227				0-404278-08/13/76-20		15-11.0	-8.0	8.0	179	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.21																			
02-67	5000-163	2917-227				0-404279-08/13/76-21		15-10.2	-8.1	8.1	48	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.68																			
02-67	4200-163	2944-229				0-404281-08/13/76-21		15-13.0	-5	8.3	12	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.44																			
02-67	3950-163	2433-229				0-404282-08/13/76-21		15-15.2	-5	8.6	25	-2-4-6-6-2-3-1-2-3-2-3-2-1	0.29																			
02-67	3200-163	2778-229				0-404283-08/13/76-21		14-14.6	-8.3	8.3	42	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.44																			
02-67	3208-163	3458-227				0-404285-08/13/76-21		15-11.4	-8.3	7.9	437	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.59																			
02-67	3128-163	4150-227				0-404286-08/13/76-21		15-11.1	-8.3	8.3	497	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.46																			
02-67	133-163	3267-229				0-404287-08/13/76-21		15-12.1	-8.1	8.1	453	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.54																			
02-67	1208-163	2222-229				0-404288-08/13/76-21		15-11.9	-8.1	8.1	453	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.66																			
02-67	1483-163	1800-229				0-404289-08/13/76-21		15-11.7	-8.0	8.0	445	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.71																			
02-67	0667-163	1761-229				0-404290-08/14/76-8		12-14.1	-5	8.6	6450	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.54																			
02-67	0722-163	3583-229				0-404291-08/14/76-8		12-15.3	-8.2	8.2	2147	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.99																			
02-67	0900-163	4197-229				0-404292-08/14/76-8		12-16.1	-5	9.2	471	-2-4-6-6-2-3-1-2-4-2-2-2-1	1.03																			
02-67	0983-163	5233-229				0-404293-08/14/76-8		12-13.3	-8.0	8.0	4512	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.91																			
02-67	1106-163	6733-229				0-404294-08/14/76-8		12-13.1	-5	8.2	4342	-2-4-6-6-2-3-1-2-4-2-2-2-1	1.14																			
02-67	1317-163	7233-229				0-404295-08/14/76-8		12-14.1	-5	8.7	3173	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.01																			
02-67	1483-163	5033-229				0-404296-08/14/76-8		13-13.3	-5	7.9	2140	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.10																			
02-67	1922-163	6100-229				0-404297-08/14/76-8		12-14.5	-5	7.9	458	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.10																			
02-67	2000-163	5250-227				0-404298-08/14/76-9		13-11.3	-8.1	8.1	215	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.13																			
02-67	2444-163	3931-227				0-404299-08/14/76-9		13-12.8	-8.9	8.9	95	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.30*																			
02-67	2217-163	5317-227				0-404300-08/14/76-9		12-12.2	-8.3	8.3	125	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.29																			
02-67	2436-163	6000-227				0-404301-08/14/76-9		12-13.3	-8.4	8.4	31	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.23																			
02-67	2067-163	6800-227				0-404302-08/14/76-9		12-11.3	-8.5	8.5	157	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.03																			
02-67	2483-163	6833-227				0-404303-08/14/76-9		12-13.1	-9.1	9.1	2174	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.01																			
02-67	2733-163	5900-227				0-404304-08/14/76-9		12-12.8	-8.7	8.7	1271	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.75																			
02-67	2661-163	6933-227				0-404305-08/14/76-9		12-13.8	-8.4	8.4	1431	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.60																			
02-67	3167-163	6250-227				0-404306-08/14/76-9		13-12.2	-8.3	8.3	1453	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.66																			
02-67	3333-163	7167-227				0-404307-08/14/76-9		12-11.9	-7.4	7.4	51	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.70																			
02-67	3700-163	5800-227				0-404308-08/14/76-9		12-12.8	-8.3	8.3	4438	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.04																			
02-67	3500-163	7000-227				0-404309-08/14/76-9		11-12.9	-9.3	9.3	2548	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.14																			
02-67	4133-163	6167-227				0-404310-08/14/76-9		12-12.1	-8.1	8.1	3478	-2-4-6-6-2-3-1-2-4-2-2-2-1	0.07																			
02-67	3961-163	7000-229				0-404311-08/14/76-9		12-13.4	-5	9.0	19	-2-4-6-6-2-3-1-2-4-2-2-2-1																				

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																						U CONCENTRATION						
STATE	LATITUDE	LONGITUDE	DOE LAF	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINILOMETER (µV 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
							DATE	HOUR																										
02-67,4333-163,7533-2-29-						0-404312-08/14/76-	9-	13-13.7-	-5-	9.2-				A5-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
02-67,4533-163,8350-2-29-						0-404313-08/14/76-	9-	13-14.2-	-5-	8.8-				113-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67,4375-163,6267-2-27-						0-404314-08/14/76-	9-	12-10.3-	-	7.8-				883-		2-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,4964-163,6233-2-27-						0-404315-08/14/76-	9-	12-11.5-	-	8.3-				1291-		2-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18
02-67,4967-163,7583-2-27-						0-404316-08/14/76-	9-	13-11.7-	-	8.6-				4128-		4-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,4900-163,8236-2-27-						0-404317-08/14/76-	9-	13-12.3-	-	7.4-				118-		4-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.54
02-67,5417-163,7917-2-27-						0-404318-08/14/76-	9-	11-12.1-	-	7.9-				35-		4-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06
02-67,5317-163,9167-2-27-						0-404319-08/14/76-	9-	13-11.8-	-	8.7-				83-		9-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,5667-163,7800-2-27-						0-404320-08/14/76-	9-	12-12.8-	-	8.1-				71-		14-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,5683-163,9133-2-27-						0-404321-08/14/76-	9-	12-11.9-	-	8.5-				21-		11-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06
02-67,6275-163,7875-2-27-						0-404322-08/14/76-	9-	12-12.0-	-	8.7-				85-		19-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.48
02-67,6128-163,9167-2-27-						0-404323-08/14/76-	9-	12-10.1-	-	7.5-				51-		14-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09
02-67,4750-163,9153-2-29-						0-404324-08/14/76-10	13-12.9-	-5-	8.2-					77-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08
02-67,5483-163,9967-2-29-						0-404325-08/14/76-10	13-13.2-	-5-	8.5-					103-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.28
02-67,5833-164,0122-2-29-						0-404326-08/14/76-10	14-13.5-	-5-	8.1-					56-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33
02-67,6367-164,0633-2-29-						0-404327-08/14/76-10	13-12.3-	-5-	7.9-					38-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,6603-163,9867-2-27-						0-404328-08/14/76-10	12-10.5-	-	7.9-					23-		4-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27
02-67,6611-164,1117-2-27-						0-404329-08/14/76-10	13-10.8-	-	8.3-					41-		9-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.71
02-67,7067-164,0433-2-27-						0-404330-08/14/76-10	13-9.8-	-	8.5-					120-		7-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32
02-67,7244-164,1667-2-27-						0-404331-08/14/76-10	13-9.5-	-	8.8-					53-		11-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09
02-67,6433-164,1167-2-29-						0-404332-08/14/76-10	13-13.1-	-5-	8.1-					54-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
02-67,6833-164,2433-2-29-						0-404333-08/14/76-10	13-12.8-	-5-	8.3-					49-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07
02-67,7081-164,2333-2-29-						0-404334-08/14/76-10	13-12.1-	-5-	8.7-					49-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
02-67,7267-164,3667-2-29-						0-404335-08/14/76-10	13-13.3-	-5-	8.0-					31-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15
02-67,7150-164,4467-2-29-						0-404336-08/14/76-10	10-13.0-	-5-	8.3-					15-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
02-67,7617-164,3433-2-29-						0-404337-08/14/76-10	10-14.1-	-5-	8.0-					25-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15
02-67,7658-164,4458-2-29-						0-404338-08/14/76-10	10-12.7-	-5-	8.8-					73-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.07
02-67,7717-164,5728-2-29-						0-404339-08/14/76-10	10-12.5-	-5-	7.9-					18-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16
02-67,7892-164,5767-2-29-						0-404340-08/14/76-11	9-11.6-	-5-	6.6-					51-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.70
02-67,7833-164,4467-2-29-						0-404341-08/14/76-11	10-12.1-	-5-	7.3-					58-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.71
02-67,8017-164,3167-2-29-						0-404342-08/14/76-11	10-13.1-	-5-	8.0-					77-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.70
02-67,8069-164,2333-2-29-						0-404343-08/14/76-11	9-12.2-	-5-	8.3-					51-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.20
02-67,8500-164,3883-2-27-						0-404344-08/14/76-11	9-10.1-	-	7.5-					117-		4-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05
02-67,8306-164,4500-2-27-						0-404345-08/14/76-11	10-9.3-	-	8.1-					75-		2-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06
02-67,8375-164,5833-2-27-						0-404346-08/14/76-11	10-11.3-	-	7.1-					50-		7-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46
02-67,8483-164,6767-2-27-						0-404347-08/14/76-11	10-12.1-	-	7.9-					31-		0-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16
02-67,8667-164,7833-2-29-						0-404348-08/14/76-11	10-11.3-	-5-	9.2-					367-		-2-7-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16
02-67,8850-164,8100-2-29-						0-404349-08/14/76-11	10-11.8-	-	8.7-					193-		-2-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67,8844-164,6733-2-27-						0-404350-08/14/76-11	10-9.5-	-	8.5-					321-		2-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,9222-164,6267-2-27-						0-404351-08/14/76-11	10-10.7-	-	9.0-					86-		2-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67,8933-164,8767-2-27-						0-404352-08/14/76-11	10-11.4-	-	8.1-					237-		18-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12
02-67,9183-164,7856-2-27-						0-404353-08/14/76-11	10-11.8-	-	8.4-					179-		16-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06
02-67,9378-164,9333-2-27-						0-404354-08/14/76-11	10-12.1-	-	9.0-					78-		4-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17
02-67,9300-165,0333-2-27-						0-404355-08/14/76-11	10-9.7-	-	8.3-					113-		14-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16
02-67,9567-164,9167-2-27-						0-404356-08/14/76-11	10-9.5-	-	8.9-					66-		16-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31
02-67,9883-165,1478-2-27-						0-404357-08/14/76-12	10-9.0-	-	8.7-					143-		4-2-7-4-6-2-2-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,9817-165,0144-2-27-						0-404358-08/14/76-12	11-9.8-	-	7.9-					82-		11-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67,9867-164,8000-2-27-						0-404359-08/14/76-12	9-8.3-	-	7.7-					39-		18-2-7-4-6-2-3-1-	2-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.36
02-67,9633-164,6800-2-27-						0-404360-08/14/76-12	10-9.2-	-	8.1-					57-		16-2-7-4-																		

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[illegible]

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LAST SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (umho/cm)	SCINILOMETER (vol ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER VEL.	WATER COLOR	STRAIN CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	REL. HUMIDITY	WIND DIRECTION	WIND SPEED	CONTAMINANTS	WEI. TYPE	WEI. QUANTITY	WEI. DEPTH	WEI. FEET	WATER DEPTH	WATER FEET	ANALYZED BY FLUOROMETRY OR DNC (+) UNITS IN PPB
							DATE	HOUR																												
02-67.5100-163.4792-2-27-						0-404417-08/14/76-15	11-12.7	-	8.0	A9-					15-2-7-4-6-2-3-1-2-4-3-2-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67.5000-163.4000-2-27-						0-404418-08/14/76-15	11-11.1	-	7.8	31-					16-2-7-4-6-2-3-1-2-4-3-1-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29
02-67.4467-163.3800-2-27-						0-404419-08/14/76-15	12-11.5	-	7.9	55-					18-2-7-4-6-2-3-1-2-4-3-1-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49
02-67.4433-163.5250-2-27-						0-404420-08/14/76-15	11-11.8	-	7.4	62-					14-1-7-4-6-2-3-1-2-4-3-1-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67.4167-163.4767-2-27-						0-404421-08/14/76-15	12-10.8	-	7.9	91-					7-2-7-4-6-2-3-1-2-4-3-1-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21
02-67.4267-163.3867-2-27-						0-404422-08/14/76-15	11-11.2	-	8.5	24-					7-2-7-4-6-2-3-1-2-4-3-1-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17
02-67.3867-163.3950-2-27-						0-404423-08/14/76-15	10-10.7	-	8.6	17-					16-2-7-4-6-2-3-1-2-4-3-1-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08
02-67.3683-163.5000-2-27-						0-404424-08/14/76-15	11-11.9	-	9.0	31-					11-2-7-4-6-2-3-1-2-4-3-2-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45
02-67.3350-163.3694-2-27-						0-404425-08/14/76-15	12-12.0	-	7.8	59-					4-2-7-4-6-2-3-1-2-4-3-2-4-	-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33
02-67.3233-163.5153-2-27-						0-404426-08/14/76-15	12-11.4	-	7.6	82-					9-2-7-4-6-2-3-1-2-4-3-1-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27
02-67.2639-163.4133-2-27-						0-404427-08/14/76-15	12-11.6	-	8.9	58-					11-2-7-4-6-2-3-1-2-4-3-2-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37
02-67.0150-161.5200-2-27-						0-404488-08/15/76-8	13-13.2	C	-	-					-2-7-5-6-2-3-1-2-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26
02-67.0217-161.4100-2-27-						0-404489-08/15/76-9	13-15.2	C	-	-					-2-7-5-6-2-3-1-2-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67.0106-161.3633-2-27-						0-404490-08/15/76-9	13-15.6	C	-	-					-2-7-4-6-2-3-1-2-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26
02-67.0194-161.2500-2-27-						0-404491-08/15/76-9	13-15.2	C	-	-					-2-6-4-6-2-3-1-2-3-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22
02-67.0133-161.1467-2-27-						0-404492-08/15/76-9	12-15.2	C	-	-					-2-6-5-6-2-3-1-2-3-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18
02-67.0333-161.0500-2-27-						0-404493-08/15/76-9	12-15.2	C	-	-					-2-6-5-6-1-2-2-2-4-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
02-67.0167-160.9231-2-27-						0-404494-08/15/76-9	12-15.6	-	-	-					-2-6-4-6-3-3-1-2-1-2-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20
02-67.0050-160.7767-2-27-						0-404495-08/15/76-9	13-15.4	C	-	-					-2-6-4-6-3-3-1-2-1-2-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.59
02-67.0300-160.6367-2-27-						0-404496-08/15/76-9	13-15.8	C	-	-					-2-6-5-6-2-3-1-2-1-2-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37
02-67.0233-160.5600-2-27-						0-404497-08/15/76-9	12-15.6	C	-	-					-2-6-5-6-2-3-1-2-1-2-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.28
02-67.0167-160.4794-2-27-						0-404498-08/15/76-9	13-15.8	C	-	-					-2-6-5-6-2-3-1-2-1-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09
02-67.0150-160.3333-2-27-						0-404499-08/15/76-9	13-15.8	C	-	-					-2-6-5-6-2-3-1-2-1-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67.0300-160.2500-2-27-						0-404500-08/15/76-9	13-15.2	C	-	-					-2-6-4-6-3-3-1-2-1-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.92
02-67.0194-160.1433-2-27-						0-404501-08/14/76-9	13-15.0	C	-	-					-2-6-4-6-2-3-1-2-1-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72
02-67.0267-160.0400-2-27-						0-404502-08/15/76-10	13-15.8	C	-	-					-2-6-4-6-2-3-1-2-1-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05
02-67.0278-159.9467-2-27-						0-404503-08/15/76-10	13-15.2	C	-	-					-2-6-4-6-2-3-1-2-1-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.75
02-67.0242-159.8400-2-29-						0-404504-08/15/76-10	13-15.1	-S	8.9	-				94-	-2-6-4-6-3-3-1-1-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11
02-67.1000-158.0378-2-27-						0-404598-08/16/76-14	13-14.6	-	8.6	-				105-	26-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
02-67.1489-158.0767-2-29-						0-404599-08/16/76-13	13-14.7	-S	8.7	-				123-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.76
02-67.1900-158.0667-2-29-						0-404600-08/16/76-13	13-13.8	-	6.8	-				115-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
02-67.1767-158.1500-2-27-						0-404601-08/16/76-16	13-14.3	-	8.2	-				320-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67.1533-158.1667-2-27-						0-404602-08/16/76-16	13-12.8	-	7.6	-				58-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39
02-67.2133-158.1000-2-27-						0-404603-08/16/76-16	13-12.5	-	6.8	-				170-	-2-7-4-8-1-2-1-1-3-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67.2233-158.0033-2-27-						0-404604-08/16/76-16	13-13.0	-	7.0	-				40-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67.1900-158.2200-2-27-						0-404605-08/16/76-16	13-15.2	-	8.0	-				120-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67.1483-158.2333-2-27-						0-404606-08/16/76-16	13-9.2	-	6.4	-				370-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.78
02-67.1172-158.2167-2-29-						0-404607-08/16/76-17	15-12.4	C	7.2	-				140-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67.1100-158.3500-2-27-						0-404608-08/16/76-16	13-14.3	-	6.4	-				100-	19-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.78
02-67.1550-158.3500-2-27-						0-404609-08/16/76-17	15-10.0	-	7.2	-				470-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
02-67.1792-158.3933-2-29-						0-404610-08/16/76-16	13-15.0	C	-	-				-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.79
02-67.2167-158.3833-2-29-						0-404611-08/16/76-17	14-15.8	-S	8.3	-				241-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13
02-67.2361-158.2867-2-27-						0-404612-08/16/76-17	15-12.3	-	6.2	-				100-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
02-67.2300-158.4367-2-27-						0-404613-08/16/76-17	15-13.7	-	6.2	-				100-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
02-67.1942-158.5133-2-29-						0-404614-08/16/76-16	15-15.0	C	-	-				-	-2-7-4-8-1-2-1-1-5-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
02-67.1536-158.4417-2-29-																																				

APPENDIX B (continued). Field Data and 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	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (pCi/l)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DUC (%)	UNITS IN ppb
02-67,0883-160,7589-2-29-	0-404630-08/17/76-11-	16-10.2-	-5-	8.5-	210-	-2-7-	-	-	-	3-2-	-	1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41		
02-67,0900-160,6617-2-27-	0-404631-08/17/76-11-	16-11.5-	-5-	8.5-	180-	-2-7-4-5-3-3-1-2-1-2-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.83			
02-67,0617-160,6989-2-27-	0-404632-08/17/76-11-	16-10.9-	-	8.4-	175-	-2-7-4-5-3-3-1-2-1-2-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.15			
02-67,0700-160,5772-2-29-	0-404633-08/17/76-11-	16-15.8-	-5-	8.5-	134-	-2-7-5-6-	-3-1-	-	1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46		
02-67,1000-160,5522-2-29-	0-404634-08/17/76-11-	16-15.6-	-5-	8.3-	140-	-2-7-5-6-	-3-1-	-	1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.53		
02-67,0733-160,4739-2-29-	0-404635-08/17/76-11-	16-15.2-	-5-	8.4-	731-	-2-7-4-6-	-3-1-	-	4-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.85		
02-67,1042-160,4589-2-27-	0-404636-08/17/76-12-	17-11.0-	-	6.0-	260-	-2-7-4-6-3-3-1-2-1-2-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.83		
02-67,0967-160,3767-2-29-	0-404637-08/17/76-12-	16-16.4-	-5-	9.9-	11-	-2-7-4-6-	-3-1-	-	3-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.28		
02-67,0667-160,3561-2-27-	0-404638-08/17/76-12-	16-12.0-	-	6.6-	270-	-2-7-4-6-2-3-1-2-3-2-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.56		
02-67,0933-160,2639-2-27-	0-404639-08/17/76-12-	16-12.2-	-	6.5-	260-	-2-7-4-6-2-3-1-2-3-2-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15		
02-67,0433-160,2658-2-27-	0-404640-08/17/76-12-	16-11.2-	-	7.2-	110-	-2-7-5-6-2-3-1-2-4-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49		
02-67,0767-160,1250-2-27-	0-404641-08/17/76-12-	17- 8.0-	-	6.8-	100-	-2-7-4-6-3-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72		
02-67,1039-160,1083-2-27-	0-404642-08/17/76-12-	17- 8.4-	-	7.0-	65-	-2-7-4-6-3-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.64		
02-67,1333-160,1483-2-27-	0-404643-08/17/76-12-	17- 8.2-	-	7.2-	110-	-2-7-	-	-	3-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50	
02-67,1333-160,0633-2-27-	0-404644-08/17/76-12-	17- 7.9-	-	6.6-	105-	-2-7-4-6-3-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61		
02-67,1050-160,0411-2-27-	0-404645-08/17/76-12-	16- 8.4-	-	7.0-	110-	-2-7-4-6-3-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.64		
02-67,0567-160,0189-2-27-	0-404646-08/17/76-12-	16-11.5-	-	6.6-	85-	-2-7-4-6-3-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67		
02-67,0978-159,9086-2-27-	0-404647-08/17/76-12-	16-11.6-	-	6.8-	80-	-2-7-4-6-3-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.47		
02-67,0461-159,8833-2-27-	0-404648-08/17/76-12-	15-15.6-	-	8.0-	101-	-2-7-4-6-3-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.74		
02-67,0967-159,7828-2-27-	0-404649-08/17/76-12-	15-15.9-	-	7.8-	100-	-2-7-4-6-3-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.74		
02-67,0644-159,8061-2-29-	0-404650-08/17/76-12-	16-15.8-	-	7.9-	103-	-2-7-4-6-	-3-1-	-	1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	
02-67,1217-159,6594-2-29-	0-404651-08/17/76-12-	16-15.5-	-5-	8.4-	108-	-2-7-4-6-	-3-1-	-	1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	
02-67,0656-159,6983-2-29-	0-404652-08/17/76-13-	17-16.4-	-5-	8.1-	23-	-2-7-4-6-	-3-1-	-	1-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.64	
02-67,0233-159,6950-2-29-	0-404653-08/17/76-13-	17-15.9-	-5-	8.1-	12-	-2-7-	-	-	3-1-	-	1-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63
02-67,0256-159,6022-2-29-	0-404654-08/17/76-13-	17-15.9-	-5-	7.4-	14-	-2-7-5-6-	-3-1-	-	3-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63	
02-67,0133-159,4661-2-29-	0-404655-08/17/76-13-	16-14.4-	-5-	6.7-	16-	-2-7-	-	-	3-1-	-	3-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.66
02-67,0167-159,3828-2-29-	0-404656-08/17/76-13-	17-16.4-	-5-	6.4-	17-	-2-7-5-6-	-3-1-	-	3-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20	
02-67,0311-159,2767-2-27-	0-404657-08/17/76-13-	17-14.0-	-	6.8-	110-	-2-7-4-6-2-3-1-2-3-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11		
02-67,0267-159,1139-2-27-	0-404658-08/17/76-13-	17-13.0-	-	6.8-	140-	-2-7-4-6-2-3-1-2-4-4-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67		
02-67,0500-159,1744-2-27-	0-404659-08/17/76-13-	17-12.6-	-	7.0-	120-	-2-7-4-6-2-3-1-2-4-4-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.68		
02-67,0167-159,0333-2-27-	0-404660-08/17/76-13-	17-14.0-	-	8.0-	180-	-2-7-6-6-2-3-2-2-3-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20		
02-67,0500-158,9578-2-27-	0-404661-08/17/76-13-	16-11.5-	-5-	6.8-	115-	-2-7-5-6-2-3-1-2-1-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67		
02-67,0200-158,9328-2-27-	0-404662-08/17/76-13-	16-12.0-	-	7.0-	110-	-2-7-5-6-2-3-1-2-1-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23		
02-67,0592-158,8000-2-27-	0-404663-08/17/76-13-	17-14.0-	-	6.8-	140-	-2-7-4-6-2-3-1-2-1-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.19		
02-67,0067-158,7833-2-27-	0-404664-08/17/76-14-	17-14.0-	-	6.8-	200-	-2-7-4-6-2-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24		
02-67,0228-158,7283-2-27-	0-404665-08/17/76-14-	17-14.0-	-	6.6-	180-	-2-7-4-6-2-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24		
02-67,0233-158,5972-2-27-	0-404666-08/17/76-14-	17-13.0-	-	6.6-	230-	-2-7-4-6-2-3-1-2-1-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20		
02-67,0328-158,4728-2-29-	0-404667-08/17/76-14-	17-15.8-	-5-	7.6-	35-	-2-7-4-6-	-3-1-	-	3-2-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.62	
02-67,0600-158,3533-2-27-	0-404668-08/17/76-12-	17-15.2-	-	6.6-	25-	-2-7-4-6-2-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67		
02-67,0167-158,3275-2-27-	0-404669-08/17/76-14-	17-15.0-	-	6.8-	35-	-2-7-4-6-2-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18		
02-67,0300-158,2222-2-27-	0-404670-08/17/76-14-	17-12.0-	-	6.8-	120-	-2-7-5-6-2-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17		
02-67,0500-158,2917-2-27-	0-404671-08/17/76-14-	17-12.0-	-	6.1-	125-	-2-7-5-6-2-3-1-2-1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.83		
02-67,0167-158,1333-2-29-	0-404672-08/17/76-14-	17-19.1-	-5-	8.4-	54-	-2-7-6-6-	-3-2-	-	1-3-3-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67	
02-67,0067-158,0544-2-29-	0-404673-08/17/76-14-	17-17.7-	-5-	9.2-	8-	-2-7-4-6-	-3-2-	-	1-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25	
02-67,0592-158,0356-2-29-	0-404674-08/17/76-15-	17-15.5-	-5-	7.7-	80-	-2-7-5-6-	-3-1-	-	1-3-2-2-	-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.81	
02-67,0542-158,1400-2-29-	0-404675-08/17/76-15-	17-17.5-	-5-	8.1-																															

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (microhm/cm)	SALT (g/L)	DISSOLVED OXYGEN (mg/L)	CHLOROPHYLL A (mg/L)	CHLOROPHYLL B (mg/L)	CHLOROPHYLL C (mg/L)	CHLOROPHYLL D (mg/L)	CHLOROPHYLL E (mg/L)	CHLOROPHYLL F (mg/L)	CHLOROPHYLL G (mg/L)	CHLOROPHYLL H (mg/L)	CHLOROPHYLL I (mg/L)	CHLOROPHYLL J (mg/L)	CHLOROPHYLL K (mg/L)	CHLOROPHYLL L (mg/L)	CHLOROPHYLL M (mg/L)	CHLOROPHYLL N (mg/L)	CHLOROPHYLL O (mg/L)	CHLOROPHYLL P (mg/L)	CHLOROPHYLL Q (mg/L)	CHLOROPHYLL R (mg/L)	CHLOROPHYLL S (mg/L)	CHLOROPHYLL T (mg/L)	CHLOROPHYLL U (mg/L)	CHLOROPHYLL V (mg/L)	CHLOROPHYLL W (mg/L)	CHLOROPHYLL X (mg/L)	CHLOROPHYLL Y (mg/L)	CHLOROPHYLL Z (mg/L)	CHLOROPHYLL AA (mg/L)	CHLOROPHYLL AB (mg/L)	CHLOROPHYLL AC (mg/L)	CHLOROPHYLL AD (mg/L)	CHLOROPHYLL AE (mg/L)	CHLOROPHYLL AF (mg/L)	CHLOROPHYLL AG (mg/L)	CHLOROPHYLL AH (mg/L)	CHLOROPHYLL AI (mg/L)	CHLOROPHYLL AJ (mg/L)	CHLOROPHYLL AK (mg/L)	CHLOROPHYLL AL (mg/L)	CHLOROPHYLL AM (mg/L)	CHLOROPHYLL AN (mg/L)	CHLOROPHYLL AO (mg/L)	CHLOROPHYLL AP (mg/L)	CHLOROPHYLL AQ (mg/L)	CHLOROPHYLL AR (mg/L)	CHLOROPHYLL AS (mg/L)	CHLOROPHYLL AT (mg/L)	CHLOROPHYLL AU (mg/L)	CHLOROPHYLL AV (mg/L)	CHLOROPHYLL AW (mg/L)	CHLOROPHYLL AX (mg/L)	CHLOROPHYLL AY (mg/L)	CHLOROPHYLL AZ (mg/L)	CHLOROPHYLL BA (mg/L)	CHLOROPHYLL BB (mg/L)	CHLOROPHYLL BC (mg/L)	CHLOROPHYLL BD (mg/L)	CHLOROPHYLL BE (mg/L)	CHLOROPHYLL BF (mg/L)	CHLOROPHYLL BG (mg/L)	CHLOROPHYLL BH (mg/L)	CHLOROPHYLL BI (mg/L)	CHLOROPHYLL BJ (mg/L)	CHLOROPHYLL BK (mg/L)	CHLOROPHYLL BL (mg/L)	CHLOROPHYLL BM (mg/L)	CHLOROPHYLL BN (mg/L)	CHLOROPHYLL BO (mg/L)	CHLOROPHYLL BP (mg/L)	CHLOROPHYLL BQ (mg/L)	CHLOROPHYLL BR (mg/L)	CHLOROPHYLL BS (mg/L)	CHLOROPHYLL BT (mg/L)	CHLOROPHYLL BU (mg/L)	CHLOROPHYLL BV (mg/L)	CHLOROPHYLL BW (mg/L)	CHLOROPHYLL BX (mg/L)	CHLOROPHYLL BY (mg/L)	CHLOROPHYLL BZ (mg/L)	CHLOROPHYLL CA (mg/L)	CHLOROPHYLL CB (mg/L)	CHLOROPHYLL CC (mg/L)	CHLOROPHYLL CD (mg/L)	CHLOROPHYLL CE (mg/L)	CHLOROPHYLL CF (mg/L)	CHLOROPHYLL CG (mg/L)	CHLOROPHYLL CH (mg/L)	CHLOROPHYLL CI (mg/L)	CHLOROPHYLL CJ (mg/L)	CHLOROPHYLL CK (mg/L)	CHLOROPHYLL CL (mg/L)	CHLOROPHYLL CM (mg/L)	CHLOROPHYLL CN (mg/L)	CHLOROPHYLL CO (mg/L)	CHLOROPHYLL CP (mg/L)	CHLOROPHYLL CQ (mg/L)	CHLOROPHYLL CR (mg/L)	CHLOROPHYLL CS (mg/L)	CHLOROPHYLL CT (mg/L)	CHLOROPHYLL CU (mg/L)	CHLOROPHYLL CV (mg/L)	CHLOROPHYLL CW (mg/L)	CHLOROPHYLL CX (mg/L)	CHLOROPHYLL CY (mg/L)	CHLOROPHYLL CZ (mg/L)	CHLOROPHYLL DA (mg/L)	CHLOROPHYLL DB (mg/L)	CHLOROPHYLL DC (mg/L)	CHLOROPHYLL DD (mg/L)	CHLOROPHYLL DE (mg/L)	CHLOROPHYLL DF (mg/L)	CHLOROPHYLL DG (mg/L)	CHLOROPHYLL DH (mg/L)	CHLOROPHYLL DI (mg/L)	CHLOROPHYLL DJ (mg/L)	CHLOROPHYLL DK (mg/L)	CHLOROPHYLL DL (mg/L)	CHLOROPHYLL DM (mg/L)	CHLOROPHYLL DN (mg/L)	CHLOROPHYLL DO (mg/L)	CHLOROPHYLL DP (mg/L)	CHLOROPHYLL DQ (mg/L)	CHLOROPHYLL DR (mg/L)	CHLOROPHYLL DS (mg/L)	CHLOROPHYLL DT (mg/L)	CHLOROPHYLL DU (mg/L)	CHLOROPHYLL DV (mg/L)	CHLOROPHYLL DW (mg/L)	CHLOROPHYLL DX (mg/L)	CHLOROPHYLL DY (mg/L)	CHLOROPHYLL DZ (mg/L)	CHLOROPHYLL EA (mg/L)	CHLOROPHYLL EB (mg/L)	CHLOROPHYLL EC (mg/L)	CHLOROPHYLL ED (mg/L)	CHLOROPHYLL EE (mg/L)	CHLOROPHYLL EF (mg/L)	CHLOROPHYLL EG (mg/L)	CHLOROPHYLL EH (mg/L)	CHLOROPHYLL EI (mg/L)	CHLOROPHYLL EJ (mg/L)	CHLOROPHYLL EK (mg/L)	CHLOROPHYLL EL (mg/L)	CHLOROPHYLL EM (mg/L)	CHLOROPHYLL EN (mg/L)	CHLOROPHYLL EO (mg/L)	CHLOROPHYLL EP (mg/L)	CHLOROPHYLL EQ (mg/L)	CHLOROPHYLL ER (mg/L)	CHLOROPHYLL ES (mg/L)	CHLOROPHYLL ET (mg/L)
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APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE $\mu\text{mhos/cm}$	SILICA WATER mg/l	DOX FINE	DOX COARSE	SEDIMENT FINE	SEDIMENT COARSE	WATER FLOW	WATER FLOW	TRAMP HANDED	LEGIONELLA	P. F. 1	P. F. 2	P. F. 3	P. F. 4	P. F. 5	P. F. 6	P. F. 7	P. F. 8	P. F. 9	P. F. 10	P. F. 11	P. F. 12	P. F. 13	P. F. 14	P. F. 15	P. F. 16	P. F. 17	P. F. 18	P. F. 19	P. F. 20	P. F. 21	P. F. 22	P. F. 23	P. F. 24	P. F. 25	P. F. 26	P. F. 27	P. F. 28	P. F. 29	P. F. 30	P. F. 31	P. F. 32	P. F. 33	P. F. 34	P. F. 35	P. F. 36	P. F. 37	P. F. 38	P. F. 39	P. F. 40	P. F. 41	P. F. 42	P. F. 43	P. F. 44	P. F. 45	P. F. 46	P. F. 47	P. F. 48	P. F. 49	P. F. 50	P. F. 51	P. F. 52	P. F. 53	P. F. 54	P. F. 55	P. F. 56	P. F. 57	P. F. 58	P. F. 59	P. F. 60	P. F. 61	P. F. 62	P. F. 63	P. F. 64	P. F. 65	P. F. 66	P. F. 67	P. F. 68	P. F. 69	P. F. 70	P. F. 71	P. F. 72	P. F. 73	P. F. 74	P. F. 75	P. F. 76	P. F. 77	P. F. 78	P. F. 79	P. F. 80	P. F. 81	P. F. 82	P. F. 83	P. F. 84	P. F. 85	P. F. 86	P. F. 87	P. F. 88	P. F. 89	P. F. 90	P. F. 91	P. F. 92	P. F. 93	P. F. 94	P. F. 95	P. F. 96	P. F. 97	P. F. 98	P. F. 99	P. F. 100	P. F. 101	P. F. 102	P. F. 103	P. F. 104	P. F. 105	P. F. 106	P. F. 107	P. F. 108	P. F. 109	P. F. 110	P. F. 111	P. F. 112	P. F. 113	P. F. 114	P. F. 115	P. F. 116	P. F. 117	P. F. 118	P. F. 119	P. F. 120	P. F. 121	P. F. 122	P. F. 123	P. F. 124	P. F. 125	P. F. 126	P. F. 127	P. F. 128	P. F. 129	P. F. 130	P. F. 131	P. F. 132	P. F. 133	P. F. 134	P. F. 135	P. F. 136	P. F. 137	P. F. 138	P. F. 139	P. F. 140	P. F. 141	P. F. 142	P. F. 143	P. F. 144	P. F. 145	P. F. 146	P. F. 147	P. F. 148	P. F. 149	P. F. 150	P. F. 151	P. F. 152	P. F. 153	P. F. 154	P. F. 155	P. F. 156	P. F. 157	P. F. 158	P. F. 159	P. F. 160	P. F. 161	P. F. 162	P. F. 163	P. F. 164	P. F. 165	P. F. 166	P. F. 167	P. F. 168	P. F. 169	P. F. 170	P. F. 171	P. F. 172	P. F. 173	P. F. 174	P. F. 175	P. F. 176	P. F. 177	P. F. 178	P. F. 179	P. F. 180	P. F. 181	P. F. 182	P. F. 183	P. F. 184	P. F. 185	P. F. 186	P. F. 187	P. F. 188	P. F. 189	P. F. 190	P. F. 191	P. F. 192	P. F. 193	P. F. 194	P. F. 195	P. F. 196	P. F. 197	P. F. 198	P. F. 199	P. F. 200	P. F. 201	P. F. 202	P. F. 203	P. F. 204	P. F. 205	P. F. 206	P. F. 207	P. F. 208	P. F. 209	P. F. 210	P. F. 211	P. F. 212	P. F. 213	P. F. 214	P. F. 215	P. F. 216	P. F. 217	P. F. 218	P. F. 219	P. F. 220	P. F. 221	P. F. 222	P. F. 223	P. F. 224	P. F. 225	P. F. 226	P. F. 227	P. F. 228	P. F. 229	P. F. 230	P. F. 231	P. F. 232	P. F. 233	P. F. 234	P. F. 235	P. F. 236	P. F. 237	P. F. 238	P. F. 239	P. F. 240	P. F. 241	P. F. 242	P. F. 243	P. F. 244	P. F. 245	P. F. 246	P. F. 247	P. F. 248	P. F. 249	P. F. 250	P. F. 251	P. F. 252	P. F. 253	P. F. 254	P. F. 255	P. F. 256	P. F. 257	P. F. 258	P. F. 259	P. F. 260	P. F. 261	P. F. 262	P. F. 263	P. F. 264	P. F. 265	P. F. 266	P. F. 267	P. F. 268	P. F. 269	P. F. 270	P. F. 271	P. F. 272	P. F. 273	P. F. 274	P. F. 275	P. F. 276	P. F. 277	P. F. 278	P. F. 279	P. F. 280	P. F. 281	P. F. 282	P. F. 283	P. F. 284	P. F. 285	P. F. 286	P. F. 287	P. F. 288	P. F. 289	P. F. 290	P. F. 291	P. F. 292	P. F. 293	P. F. 294	P. F. 295	P. F. 296	P. F. 297	P. F. 298	P. F. 299	P. F. 300	P. F. 301	P. F. 302	P. F. 303	P. F. 304	P. F. 305	P. F. 306	P. F. 307	P. F. 308	P. F. 309	P. F. 310	P. F. 311	P. F. 312	P. F. 313	P. F. 314	P. F. 315	P. F. 316	P. F. 317	P. F. 318	P. F. 319	P. F. 320	P. F. 321	P. F. 322	P. F. 323	P. F. 324	P. F. 325	P. F. 326	P. F. 327	P. F. 328	P. F. 329	P. F. 330	P. F. 331	P. F. 332	P. F. 333	P. F. 334	P. F. 335	P. F. 336	P. F. 337	P. F. 338	P. F. 339	P. F. 340	P. F. 341	P. F. 342	P. F. 343	P. F. 344	P. F. 345	P. F. 346	P. F. 347	P. F. 348	P. F. 349	P. F. 350	P. F. 351	P. F. 352	P. F. 353	P. F. 354	P. F. 355	P. F. 356	P. F. 357	P. F. 358	P. F. 359	P. F. 360	P. F. 361	P. F. 362	P. F. 363	P. F. 364	P. F. 365	P. F. 366	P. F. 367	P. F. 368	P. F. 369	P. F. 370	P. F. 371	P. F. 372	P. F. 373	P. F. 374	P. F. 375	P. F. 376	P. F. 377	P. F. 378	P. F. 379	P. F. 380	P. F. 381	P. F. 382	P. F. 383	P. F. 384	P. F. 385	P. F. 386	P. F. 387	P. F. 388	P. F. 389	P. F. 390	P. F. 391	P. F. 392	P. F. 393	P. F. 394	P. F. 395	P. F. 396	P. F. 397	P. F. 398	P. F. 399	P. F. 400	P. F. 401	P. F. 402	P. F. 403	P. F. 404	P. F. 405	P. F. 406	P. F. 407	P. F. 408	P. F. 409	P. F. 410	P. F. 411	P. F. 412	P. F. 413	P. F. 414	P. F. 415	P. F. 416	P. F. 417	P. F. 418	P. F. 419	P. F. 420	P. F. 421	P. F. 422	P. F. 423	P. F. 424	P. F. 425	P. F. 426	P. F. 427	P. F. 428	P. F. 429	P. F. 430	P. F. 431	P. F. 432	P. F. 433	P. F. 434	P. F. 435	P. F. 436	P. F. 437	P. F. 438	P. F. 439	P. F. 440	P. F. 441	P. F. 442	P. F. 443	P. F. 444	P. F. 445	P. F. 446	P. F. 447	P. F. 448	P. F. 449	P. F. 450	P. F. 451	P. F. 452	P. F. 453	P. F. 454	P. F. 455	P. F. 456	P. F. 457	P. F. 458	P. F. 459	P. F. 460	P. F. 461	P. F. 462	P. F. 463	P. F. 464	P. F. 465	P. F. 466	P. F. 467	P. F. 468	P. F. 469	P. F. 470	P. F. 471	P. F. 472	P. F. 473	P. F. 474	P. F. 475	P. F. 476	P. F. 477	P. F. 478	P. F. 479	P. F. 480	P. F. 481	P. F. 482	P. F. 483	P. F. 484	P. F. 485	P. F. 486	P. F. 487	P. F. 488	P. F. 489	P. F. 490	P. F. 491	P. F. 492	P. F. 493	P. F. 494	P. F. 495	P. F. 496	P. F. 497	P. F. 498	P. F. 499	P. F. 500	P. F. 501	P. F. 502	P. F. 503	P. F. 504	P. F. 505	P. F. 506	P. F. 507	P. F. 508	P. F. 509	P. F. 510	P. F. 511	P. F. 512	P. F. 513	P. F. 514	P. F. 515	P. F. 516	P. F. 517	P. F. 518	P. F. 519	P. F. 520	P. F. 521	P. F. 522	P. F. 523	P. F. 524	P. F. 525	P. F. 526	P. F. 527	P. F. 528	P. F. 529	P. F. 530	P. F. 531	P. F. 532	P. F. 533	P. F. 534	P. F. 535	P. F. 536	P. F. 537	P. F. 538	P. F. 539	P. F. 540	P. F. 541	P. F. 542	P. F. 543	P. F. 544	P. F. 545	P. F. 546	P. F. 547	P. F. 548	P. F. 549	P. F. 550	P. F. 551	P. F. 552	P. F. 553	P. F. 554	P. F. 555	P. F. 556	P. F. 557	P. F. 558	P. F. 559	P. F. 560	P. F. 561	P. F. 562	P. F. 563	P. F. 564	P. F. 565	P. F. 566	P. F. 567	P. F. 568	P. F. 569	P. F. 570	P. F. 571	P. F. 572	P. F. 573	P. F. 574	P. F. 575	P. F. 576	P. F. 577	P. F. 578	P. F. 579	P. F. 580	P. F. 581	P. F. 582	P. F. 583	P. F. 584	P. F. 585	P. F. 586	P. F. 587	P. F. 588	P. F. 589	P. F. 590	P. F. 591	P. F. 592	P. F. 593	P. F. 594	P. F. 595	P. F. 596	P. F. 597	P. F. 598	P. F. 599	P. F. 600	P. F. 601	P. F. 602	P. F. 603	P. F. 604	P. F. 605	P. F. 606	P. F. 607	P. F. 608	P. F. 609	P. F. 610	P. F. 611	P. F. 612	P. F. 613	P. F. 614	P. F. 615	P. F. 616	P. F. 617	P. F. 618	P. F. 619	P. F. 620	P. F. 621	P. F. 622	P. F. 623	P. F. 624	P. F. 625	P. F. 626	P. F. 627	P. F. 628	P. F. 629	P. F. 630	P. F. 631	P. F. 632	P. F. 633	P. F. 634	P. F. 635	P. F. 636	P. F. 637	P. F. 638	P. F. 639	P. F. 640	P. F. 641	P. F. 642	P. F. 643	P. F. 644	P. F. 645	P. F. 646	P. F. 647	P. F. 648	P. F. 649	P. F. 650	P. F. 651	P. F. 652	P. F. 653	P. F. 654	P. F. 655	P. F. 656	P. F. 657	P. F. 658	P. F. 659	P. F. 660	P. F. 661	P. F. 662	P. F. 663	P. F. 664	P. F. 665	P. F. 666	P. F. 667	P. F. 668	P. F. 669	P. F. 670	P. F. 671	P. F. 672	P. F. 673	P. F. 674	P. F. 675	P. F. 676	P. F. 677	P. F. 678	P. F. 679	P. F. 680	P. F. 681	P. F. 682	P. F. 683	P. F. 684	P. F. 685	P. F. 686	P. F. 687	P. F. 688	P. F. 689	P. F. 690	P. F. 691	P. F. 692	P. F. 693	P. F. 694	P. F. 695	P. F. 696	P. F. 697	P. F. 698	P. F. 699	P. F. 700	P. F. 701	P. F. 702	P. F. 703	P. F. 704	P. F. 705	P. F. 706	P. F. 707	P. F. 708	P. F. 709	P. F. 710	P. F. 711	P. F. 712	P. F. 713	P. F. 714	P. F. 715	P. F. 716	P. F. 717	P. F. 718	P. F. 719	P. F. 720	P. F. 721	P. F. 722	P. F. 723	P. F. 724	P. F. 725	P. F. 726	P. F. 727	P. F. 728	P. F. 729	P. F. 730	P. F. 731	P. F. 732	P. F. 733	P. F. 734	P. F. 735	P. F. 736	P. F. 737	P. F. 738	P. F. 739	P. F. 740	P. F. 741	P. F. 742	P. F. 743	P. F. 744	P. F. 745	P. F. 746	P. F. 747	P. F. 748	P. F. 749	P. F. 750	P. F. 751	P. F. 752	P. F. 753	P. F. 754	P. F. 755	P. F. 756	P. F. 757	P. F. 758	P. F. 759	P. F. 760

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER				LAST SAMPLE LOCATION NUMBER AND FIELD DATA										CONCENTRATION									
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPEC. MEASUREMENTS	PH	SPL. (CONDUCTIVITY)	% DISSOLVED	DOE TYPE	WATER TYPE	CONTAMINANT	ANALYST	DATE	WATER TYPE	WATER TYPE	DOE
							DATE	TIME															
02-67	1950.160	2856.2-27-				0-404785-08/18/76-13-	16-12.2	-	8.1	92-	-	-	-	-	-	-	-	-	-	-	-	-	0.69
02-67	1911.160	2000-2-27-				0-404786-08/18/76-13-	17-11.0	-	7.8	57-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67	1867.160	4767-2-27-				0-404787-08/18/76-14-	16-11.7	-	8.1	53-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67	2467.159	7200-2-29-				0-404788-08/18/76-15-	17-13.8	-	7.9	46-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67	2900.159	6756-2-27-				0-404789-08/18/76-15-	17-13.3	-	8.2	71-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67	2228.159	6133-2-27-				0-404790-08/18/76-15-	17-12.8	-	8.6	78-	-	-	-	-	-	-	-	-	-	-	-	-	0.22
02-67	2722.159	8100-2-27-				0-404791-08/18/76-15-	17-12.7	-	7.8	54-	-	-	-	-	-	-	-	-	-	-	-	-	0.21
02-67	3117.159	7167-2-27-				0-404792-08/18/76-15-	16-13.1	-	7.8	78-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
02-67	3683.159	7083-2-27-				0-404793-08/18/76-16-	17-12.8	-	8.4	49-	-	-	-	-	-	-	-	-	-	-	-	-	0.18
02-67	4028.159	7333-2-27-				0-404794-08/18/76-16-	17-13.2	-	8.1	46-	-	-	-	-	-	-	-	-	-	-	-	-	0.24
02-67	4303.159	8083-2-27-				0-404795-08/18/76-14-	16-13.4	-	8.0	40-	-	-	-	-	-	-	-	-	-	-	-	-	0.69
02-67	4300.159	7450-2-27-				0-404796-08/18/76-16-	17-12.7	-	8.1	53-	-	-	-	-	-	-	-	-	-	-	-	-	0.34
02-67	4467.159	8267-2-27-				0-404797-08/18/76-16-	16-11.3	-	7.6	52-	-	-	-	-	-	-	-	-	-	-	-	-	0.27
02-67	4633.159	9200-2-27-				0-404798-08/18/76-16-	15-11.5	-	7.9	53-	-	-	-	-	-	-	-	-	-	-	-	-	0.75
02-67	4783.159	9633-2-27-				0-404799-08/18/76-16-	16-12.1	-	8.2	81-	-	-	-	-	-	-	-	-	-	-	-	-	0.39
02-67	4833.160	0300-2-27-				0-404800-08/18/76-16-	16-11.8	-	8.4	75-	-	-	-	-	-	-	-	-	-	-	-	-	1.48
02-67	4600.160	1500-2-27-				0-404801-08/18/76-16-	17-12.2	-	8.6	86-	-	-	-	-	-	-	-	-	-	-	-	-	0.98
02-67	4900.159	7967-2-27-				0-404802-08/18/76-16-	15-12.1	-	8.7	51-	-	-	-	-	-	-	-	-	-	-	-	-	1.21
02-67	6333.159	6100-2-27-				0-404803-08/18/76-16-	16-11.8	-	8.6	74-	-	-	-	-	-	-	-	-	-	-	-	-	1.34
02-67	6261.159	7200-2-27-				0-404804-08/18/76-16-	16-11.8	-	7.5	45-	-	-	-	-	-	-	-	-	-	-	-	-	3.21
02-67	5967.159	8467-2-27-				0-404805-08/18/76-16-	16-11.4	-	8.0	45-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
02-67	6200.159	9333-2-27-				0-404806-08/18/76-16-	15-12.4	-	8.7	22-	-	-	-	-	-	-	-	-	-	-	-	-	3.44
02-67	6433.159	9333-2-27-				0-404807-08/18/76-16-	15-12.4	-	7.7	22-	-	-	-	-	-	-	-	-	-	-	-	-	3.43
02-67	6667.159	9833-2-27-				0-404808-08/18/76-16-	15-10.8	-	8.1	46-	-	-	-	-	-	-	-	-	-	-	-	-	1.64
02-67	6861.160	0500-2-27-				0-404809-08/18/76-16-	15-11.4	-	8.9	31-	-	-	-	-	-	-	-	-	-	-	-	-	0.08
02-67	6861.160	0500-2-27-				0-404810-08/18/76-16-	15-12.2	-	8.4	41-	-	-	-	-	-	-	-	-	-	-	-	-	0.16
02-67	6367.160	0733-2-27-				0-404811-08/18/76-16-	16-13.0	-	7.8	48-	-	-	-	-	-	-	-	-	-	-	-	-	0.09
02-67	6700.159	8100-2-27-				0-404812-08/18/76-16-	16-10.8	-	8.1	56-	-	-	-	-	-	-	-	-	-	-	-	-	1.21
02-67	6700.159	7100-2-27-				0-404813-08/18/76-16-	15-0.5	-	7.9	20-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67	5733.159	7033-2-27-				0-404814-08/18/76-16-	15-12.2	-	7.4	18-	-	-	-	-	-	-	-	-	-	-	-	-	1.25
02-67	5983.159	6100-2-27-				0-404815-08/18/76-16-	15-12.5	-	8.6	73-	-	-	-	-	-	-	-	-	-	-	-	-	1.03
02-67	5478.159	7067-2-27-				0-404816-08/18/76-16-	15-12.0	-	8.4	42-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
02-67	5522.159	6383-2-27-				0-404817-08/18/76-17-	15-12.7	-	8.5	38-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67	5531.159	8478-2-27-				0-404818-08/18/76-17-	15-12.1	-	7.9	31-	-	-	-	-	-	-	-	-	-	-	-	-	0.19
02-67	5500.159	9083-2-27-				0-404819-08/18/76-17-	16-12.6	-	8.4	27-	-	-	-	-	-	-	-	-	-	-	-	-	0.61
02-67	5783.159	9583-2-27-				0-404820-08/18/76-17-	15-11.9	-	8.1	78-	-	-	-	-	-	-	-	-	-	-	-	-	0.79
02-67	5767.160	0850-2-27-				0-404821-08/18/76-17-	16-12.4	-	7.7	80-	-	-	-	-	-	-	-	-	-	-	-	-	1.04
02-67	5267.160	0433-2-27-				0-404822-08/18/76-17-	15-11.6	-	8.0	57-	-	-	-	-	-	-	-	-	-	-	-	-	0.86
02-67	4867.159	7300-2-27-				0-404823-08/18/76-17-	16-12.3	-	7.9	57-	-	-	-	-	-	-	-	-	-	-	-	-	0.33
02-67	5590.159	4833-2-27-				0-404824-08/18/76-17-	16-11.7	-	8.2	48-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67	6183.159	3800-2-27-				0-404825-08/18/76-17-	15-11.9	-	7.8	47-	-	-	-	-	-	-	-	-	-	-	-	-	0.19
02-67	6367.159	4833-2-27-				0-404826-08/18/76-17-	15-12.1	-	8.6	49-	-	-	-	-	-	-	-	-	-	-	-	-	0.79
02-67	6583.159	3750-2-27-				0-404827-08/18/76-17-	15-11.9	-	7.9	42-	-	-	-	-	-	-	-	-	-	-	-	-	1.04
02-67	6556.159	5200-2-27-				0-404828-08/18/76-17-	15-11.2	-	7.6	31-	-	-	-	-	-	-	-	-	-	-	-	-	0.86
02-67	5733.159	3800-2-27-				0-404829-08/18/76-17-	16-12.0	-	7.9	59-	-	-	-	-	-	-	-	-	-	-	-	-	0.33
02-67	5689.159	2689-2-27-				0-404830-08/18/76-17-	15-12.3	-	8.2	48-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67	6083.159	2333-2-27-				0-404831-08/18/76-10-	15-12.5	-	8.4	71-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
02-67	5467.159	4167-2-27-				0-404832-08/18/76-17-	15-11.1	-	7.1	21-	-	-	-	-	-	-	-	-	-	-	-	-	0.62
02-67	5467.159	4167-2-27-				0-404833-08/18/76-17-	16-11.4	-	8.0	20-	-	-	-	-	-	-	-	-	-	-	-	-	
02-67	5011.159	4917-2-27-				0-404834-08/18/76-18-	15-10.9	-	8.1	20-	-	-	-	-	-	-	-	-	-	-	-	-	
02-67	4944.159	3767-2-27-				0-404835-08/18/76-18-	16-10.7	-	7.5	18-	-	-	-	-	-	-	-	-	-	-	-	-	

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[illegible]

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER				LASX SAMPLE LOCATION NUMBER AND FIELD DATA										U CONCENTRATION																				
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASX SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (microhm/cm)	SCALLOMETRIC (uL/ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STORAGE CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	WIND	WEATHER	ONWATERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER INCHES	WELL DEPTH FEET	WATER DEPTH FEET	WATER SAMPLES ANALYZED BY FLUOREMETRY OR DVC (+) UNITS IN PPM
							DATE	HOUR																										
02-67	2617-159	4028-2-20				0-404889-08/19/76-14	23-16.6	-5	6.4	8	-7-2-5-8	-3-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01		
02-67	2650-159	2600-2-27				0-404890-08/19/76-14	22-15.0	-	6.8	40	-2-7-4-6-3	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	3200-159	2356-2-27				0-404891-08/19/76-14	18-13.0	-	6.2	40	-2-7-3-6-3	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	2667-159	1600-2-27				0-404892-08/19/76-14	17-12.6	-	6.5	40	-2-7-3-6-3	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
02-67	2628-159	1600-2-27				0-404893-08/19/76-14	17-13.8	-	6.5	40	-2-7-4-4-3	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	2747-159	0450-2-27				0-404894-08/19/76-14	17-14.0	-	6.4	47	-2-7-3-6-3	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	
02-67	2400-159	0550-2-27				0-404895-08/19/76-14	17-16.2	-5	6.8	16	-2-7-5-8	-3-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	2400-159	0619-2-27				0-404896-08/19/76-14	17-15.0	-	7.0	110	-2-7-5-6-2	-4-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09	
02-67	2653-159	9025-2-27				0-404897-08/19/76-14	17-14.7	-	7.3	107	-2-7-5-6-2	-4-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26	
02-67	2317-158	8278-2-27				0-404898-08/19/76-15	17-13.5	-	6.8	140	-2-7-5-6-3	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30	
02-67	2650-158	7950-2-27				0-404899-08/19/76-15	17-13.7	-	6.9	147	-2-7-5-6-3	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	
02-67	2200-158	6650-2-27				0-404900-08/19/76-15	18-16.5	-5	7.3	42	-2-7-5-6-3	-3-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	
02-67	2250-158	6683-2-27				0-404901-08/19/76-15	17-12.3	-	7.2	114	-2-7-5-6-3	-3-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53	
02-67	2392-158	5744-2-27				0-404902-08/19/76-15	17-12.5	-	7.4	114	-2-7-5-6-3	-3-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	
02-67	2667-158	5967-2-27				0-404903-08/19/76-15	17-14.0	-	6.6	240	-2-7-4-4-3	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.51	
02-67	2733-158	1433-2-27				0-404904-08/19/76-16	17-12.0	-	6.4	45	-2-7-3-6-4	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06	
02-67	2722-158	0767-2-27				0-404905-08/19/76-16	15-12.4	-	6.4	40	-2-7-3-6-4	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
02-67	3100-158	0267-2-27				0-404906-08/19/76-16	15-9.0	-	6.8	60	-2-7-3-6-4	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	
02-67	3458-158	0000-2-27				0-404907-08/19/76-16	15-9.4	-	7.2	67	-2-7-3-6-4	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	
02-67	2767-158	2250-2-27				0-404908-08/19/76-16	15-9.0	-	6.8	50	-2-7-3-6-4	-2-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	4608-158	1428-2-27				0-404909-08/19/76-16	16-10.0	-	6.8	240	-2-2-3-7-3	-2-1	-1-5-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31	
02-67	4950-158	1067-2-27				0-404910-08/19/76-16	16-10.5	-	7.2	107	-2-2-3-7-3	-2-1	-1-5-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
02-67	4906-158	2183-2-27				0-404911-08/19/76-16	15-70.2	-	7.0	207	-2-2-3-7-3	-2-1	-1-5-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
02-67	4928-158	0267-2-27				0-404912-08/19/76-17	11-10.0	-	7.2	170	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.43	
02-67	4950-158	0000-2-27				0-404913-08/19/76-17	11-10.2	-	6.8	111	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80	
02-67	4983-158	0593-2-27				0-404914-08/19/76-17	11-11.3	-	6.8	150	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31	
02-67	3967-158	1011-2-27				0-404915-08/19/76-17	11-11.4	-	7.2	147	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	
02-67	3683-158	1311-2-27				0-404916-08/19/76-17	11-12.0	-	7.3	207	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	3317-158	1261-2-27				0-404917-08/19/76-17	12-12.0	-	7.2	177	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.88	
02-67	3475-158	2067-2-27				0-404918-08/19/76-17	11-11.8	-	7.1	42	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.82	
02-67	3275-158	2733-2-27				0-404919-08/19/76-17	12-11.9	-	7.3	114	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41	
02-67	3025-158	3250-2-27				0-404920-08/19/76-17	11-12.4	-	7.3	47	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.93	
02-67	2875-158	3533-2-27				0-404921-08/19/76-17	13-10.0	-	6.7	70	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13	
02-67	2875-158	3533-2-27				0-404922-08/19/76-17	12-14.1	-5	8.1	11	-2-7-6-8	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	3192-158	5000-2-27				0-404923-08/19/76-17	12-10.8	-	6.8	35	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	3600-158	4717-2-27				0-404924-08/19/76-17	12-10.0	-	6.7	16	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	3800-158	3800-2-27				0-404925-08/19/76-17	12-9.5	-	6.8	110	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	
02-67	4017-158	2897-2-27				0-404926-08/19/76-17	12-10.0	-	6.9	147	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	4383-158	2426-2-27				0-404927-08/19/76-17	12-9.7	-	7.2	147	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	4508-158	3494-2-27				0-404928-08/19/76-17	12-11.2	-5	7.3	93	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.54	
02-67	4200-158	3994-2-27				0-404929-08/19/76-17	12-12.0	-	7.3	130	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.73	
02-67	3339-158	5626-2-29				0-404930-08/19/76-17	12-14.1	-5	7.6	50	-2-7-6-8	-3-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
02-67	3283-158	6067-2-27				0-404931-08/19/76-17	12-9.5	-	7.3	135	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
02-67	4333-158	5200-2-27				0-404932-08/19/76-18	12-9.3	-	6.9	114	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
02-67	4500-158	5283-2-27				0-404933-08/19/76-18	12-9.7	-	6.8	101	-2-7-3-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.36	
02-67	4167-158	5583-2-29				0-404934-08/19/76-18	12-11.4	-5	7.4	107	-2-7-5-6-3	-3-1	-1-4-2-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.78	
02-67	4867-158	4667-2-27				0-404935-08/19/76-18	11-8.0	-	7.3	140	-2-7-4-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46	
02-67	5128-158	3900-2-27				0-404936-08/19/76-18	11-8.7	-	7.2	177	-2-7-4-6-3	-2-1	-1-3-4-2	1	-	-	-	-	-	-														

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DOE SAMPLE NUMBER						LASI SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION							
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASI SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCIN (CMETER (100 mm))	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	WIND DIRECTION	WEATHER	ON WIND-UP	CONTAMINANTS	WELL TYPE	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DMC (+) UNITS IN PPB
							DATE	HOUR																									
02-67	4867-158	8000-2-27-				0-404940-08/19/76-18	11	9.0	-	7.4			185	-2-7-3-6-3-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
02-67	5133-158	9444-2-27-				0-404941-08/19/76-18	11	9.2	-	7.3			180	-2-7-3-6-3-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
02-67	4650-158	8408-2-27-				0-404942-08/19/76-18	11	9.0	-	6.9			190	-2-7-3-6-3-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.17	
02-67	4461-158	7294-2-27-				0-404943-08/19/76-18	12	9.0	-	6.8			135	-2-7-3-6-4-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
02-67	4083-158	6667-2-27-				0-404944-08/19/76-18	11	8.7	-	7.2			135	-2-7-3-6-4-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
02-67	4000-158	8278-2-29-				0-404945-08/19/76-18	11	10.2	-S	7.3			15	-2-7-6-8-3-1-1-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
02-67	3633-158	6961-2-27-				0-404946-08/19/76-18	11	9.5	-	6.8			180	-2-7-6-7-3-2-1-1-3-3-2-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32	
02-67	3656-158	7900-2-27-				0-404947-08/19/76-18	11	9.2	-	6.9			140	-2-7-6-6-3-2-1-1-3-3-2-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09	
02-67	3050-158	6917-2-27-				0-404949-08/19/76-18	11	10.5	-	7.1			167	-2-7-3-6-3-2-1-1-3-3-2-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	3028-158	9583-2-27-				0-404950-08/19/76-19	11	10.0	-	7.4			170	-2-7-3-7-4-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	
02-67	3183-159	0158-2-27-				0-404951-08/19/76-19	11	9.5	-	7.2			147	-2-7-4-7-3-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61	
02-67	3567-158	9492-2-27-				0-404952-08/19/76-19	11	9.3	-	6.9			97	-2-7-4-7-3-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	
02-67	3728-159	0478-2-27-				0-404953-08/19/76-19	11	9.0	-	7.1			197	-2-7-4-7-3-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	4028-158	9994-2-27-				0-404954-08/19/76-19	11	9.4	-	7.1			127	-2-7-4-7-3-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	4400-158	9217-2-27-				0-404955-08/19/76-19	11	9.8	-	6.9			144	-2-7-4-7-3-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
02-67	4017-158	9422-2-27-				0-404956-08/19/76-19	11	9.0	-	7.3			180	-2-7-3-7-3-2-1-1-3-3-2-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
02-67	3272-159	1494-2-27-				0-404957-08/19/76-19	11	9.4	-	7.1			210	-2-7-3-7-3-2-1-1-3-3-2-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.48	
02-67	3589-159	1667-2-27-				0-404958-08/19/76-19	11	9.4	-	6.9			197	-2-7-3-6-3-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	
02-67	3656-159	2494-2-27-				0-404959-08/19/76-19	12	9.4	-	6.8			104	-2-7-4-7-3-2-1-1-3-3-4-2-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41	
02-67	3600-162	0433-2-27-				0-404960-08/20/76-9	15	13.6	-	6.8			310	-2-6-3-6-2-3-1-2-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.51	
02-67	3267-162	0300-2-27-				0-404961-08/20/76-9	15	9.8	-	6.6			160	-2-6-3-6-2-3-1-2-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.51	
02-67	4000-162	0900-2-27-				0-404962-08/20/76-9	16	10.4	-	7.0			215	-2-6-3-6-2-3-1-2-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61	
02-67	3600-161	9300-2-27-				0-404963-08/20/76-10	16	10.4	-	6.8			440	-2-6-5-6-2-3-1-2-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32	
02-67	3272-161	9233-2-29-				0-404964-08/20/76-10	16	14.8	-S	8.8			9	-2-6-5-6-3-1-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
02-67	3567-161	8600-2-27-				0-404965-08/20/76-10	16	10.8	-	6.5			330	-2-7-4-6-2-3-1-2-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49	
02-67	3817-161	8733-2-27-				0-404966-08/20/76-10	16	10.8	-	6.8			310	-2-7-4-6-2-3-1-2-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.38	
02-67	3933-161	9333-2-27-				0-404967-08/20/76-10	16	10.2	-	6.8			310	-2-7-4-6-2-3-1-2-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26	
02-67	3233-161	8222-2-27-				0-404968-08/20/76-10	16	10.6	-	6.5			200	-2-6-4-6-2-3-1-2-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
02-67	3392-161	7100-2-27-				0-404969-08/20/76-10	18	10.2	-	6.8			315	-2-7-4-6-2-3-1-2-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	
02-67	3431-161	6208-2-27-				0-404970-08/20/76-10	16	10.5	-	7.2			300	-2-7-4-6-2-3-1-2-1-3-3-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.34	
02-67	3700-161	6867-2-27-				0-404971-08/20/76-10	17	10.4	-	6.7			320	-2-7-4-6-2-3-1-2-1-2-4-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61	
02-67	3633-161	6133-2-27-				0-404972-08/20/76-10	17	10.8	-	7.0			285	-2-7-4-6-2-3-1-2-1-2-4-1-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LAST SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION				
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (cpm)	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 (x) UNITS IN ppb
							DATE	HOUR																										
02-67	3367-161	2300-2-29				0-404992-08/20/76-11	18-14.8	-5	7.7	24						-2-6-4-5-6	-3-1	-1-3-3-1	-1															0.40
02-67	3617-161	2700-2-27				0-404993-08/20/76-11	18-10.5	-	7.3	350						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.45
02-67	4100-161	2733-2-27				0-404994-08/20/76-11	17-11.2	-	7.3	345						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																1.08
02-67	4600-161	2967-2-27				0-404995-08/20/76-11	18-10.5	-	6.8	28						-2-6-4-6-2-3-1	-2-1-2-4-1	-1																0.40
02-67	4867-161	2783-2-27				0-404996-08/20/76-11	18-11.2	-	6.9	30						-2-6-4-6-2-3-1	-2-1-2-4-1	-1																0.40
02-67	4967-161	3850-2-27				0-404997-08/20/76-11	18-10.2	-	6.2	140						-2-7-4-6-2-3-1	-2-1-2-4-1	-1																0.10
02-67	5233-161	4442-2-27				0-404998-08/20/76-11	18-10.6	-	6.8	150						-2-7-4-6-2-3-1	-2-1-2-4-1	-1																0.22
02-67	5400-161	3233-2-27				0-404999-08/20/76-11	18-8.6	-	6.8	180						-2-7-4-6-2-3-1	-2-4-1-4-1	-1																0.33
02-67	5733-161	3033-2-27				0-405000-08/20/76-11	18-8.8	-	7.0	210						-2-7-4-6-2-3-1	-2-4-1-4-1	-1																0.25
02-67	5667-161	2300-2-27				0-405001-08/20/76-12	17-10.6	-	7.2	240						-2-7-4-6-2-3-1	-2-4-1-4-1	-1																0.51
02-67	5367-161	1989-2-27				0-405002-08/20/76-12	17-10.8	-	7.0	300						-2-7-4-6-2-3-1	-2-4-1-4-1	-1																0.53
02-67	5275-161	1200-2-27				0-405003-08/20/76-12	17-11.6	-	7.8	220						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																0.47
02-67	5033-161	1467-2-27				0-405004-08/20/76-12	18-10.8	-	7.2	190						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																0.16
02-67	4617-161	1500-2-27				0-405005-08/20/76-12	18-11.2	-	7.4	200						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																0.70
02-67	4500-161	0750-2-27				0-405006-08/20/76-12	18-10.8	-	6.8	210						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																0.36
02-67	4914-161	0167-2-27				0-405007-08/20/76-12	18-10.6	-	7.8	185						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																0.56
02-67	5375-161	0100-2-27				0-405008-08/20/76-12	18-11.6	-	7.8	275						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																0.25
02-67	5622-161	0900-2-27				0-405009-08/20/76-12	18-9.8	-	7.6	320						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																1.00
02-67	6117-160	9417-2-27				0-405010-08/20/76-12	18-11.2	-	8.0	45						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																1.40
02-67	6300-161	0567-2-27				0-405011-08/20/76-12	17-11.2	-	7.6	190						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																1.63
02-67	6133-161	2161-2-27				0-405012-08/20/76-12	17-11.6	-	7.8	220						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																0.18
02-67	6400-161	2200-2-27				0-405013-08/20/76-12	18-11.2	-	7.8	126						-2-6-4-6-2-3-1	-2-4-1-4-1	-1																0.13
02-67	5733-160	9817-2-27				0-405014-08/20/76-13	18-9.5	-	6.7	280						-2-7-4-6-3-3-1	-2-4-1-4-1	-1																0.43
02-67	4100-161	0233-2-27				0-405015-08/20/76-13	18-10.5	-	8.2	120						-2-6-4-6-2-3-1	-2-1-1-4-1	-1																0.64
02-67	4439-160	9700-2-27				0-405016-08/20/76-13	18-10.8	-	8.0	115						-2-6-4-6-2-3-1	-2-1-1-4-1	-1																0.08
02-67	4028-160	9250-2-27				0-405017-08/20/76-13	18-9.7	-	6.6	290						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.85
02-67	3694-160	9600-2-27				0-405018-08/20/76-13	18-9.6	-	6.8	300						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.45
02-67	3483-161	0167-2-27				0-405019-08/20/76-13	17-10.4	-	7.0	275						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.69
02-67	3317-161	0467-2-27				0-405020-08/20/76-13	18-12.0	-	8.0	188						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.88
02-67	2822-161	1633-2-27				0-405021-08/20/76-13	18-11.8	-	7.1	310						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.21
02-67	3267-161	1233-2-27				0-405022-08/20/76-13	18-10.6	-	7.0	325						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.01
02-67	3628-161	1333-2-27				0-405023-08/20/76-13	18-11.2	-	7.0	295						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.63
02-67	4061-161	1567-2-27				0-405024-08/20/76-13	17-12.0	-	7.6	295						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																1.39
02-67	2706-161	0333-2-27				0-405025-08/20/76-13	17-10.8	-	7.2	280						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.40
02-67	3267-160	9633-2-27				0-405026-08/20/76-13	17-10.8	-	7.2	180						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.78
02-67	2700-160	9183-2-27				0-405027-08/20/76-14	18-13.2	-	7.0	310						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.63
02-67	3533-160	8333-2-27				0-405028-08/20/76-14	18-10.2	-	7.6	195						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.12
02-67	4028-160	8111-2-27				0-405029-08/20/76-14	18-11.2	-	6.8	95						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.28
02-67	3983-160	7367-2-27				0-405030-08/20/76-14	17-10.8	-	7.2	210						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.36
02-67	3208-159	4767-2-27				0-405031-08/20/76-15	18-11.6	-	6.8	30						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.23
02-67	3261-159	4006-2-27				0-405032-08/20/76-15	17-11.4	-	2.5	48						-2-6-4-6-2-3-1	-2-1-3-3-1	-1																0.08
02-67	3592-159	3717-2-27				0-405033-08/20/76-15	17-10.2	-	7.8	210						-2-6-4-6-3-3-1	-2-1-3-4-1	-1																0.07
02-67	3983-159	3400-2-27				0-405034-08/20/76-15	17-11.4	-	6.8	122						-2-6-4-6-3-3-1	-3-1-3-4-1	-1																0.18
02-67	4378-159	2756-2-27				0-405035-08/20/76-15	17-10.8	-	8.2	210						-2-6-3-6-3-3-1	-3-1-3-3-1	-1																

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																						U CONCENTRATION						
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (nCi/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
							DATE	HOUR																										
02-67	4033-160	2667-2-27-	n-405046	08/20/76-16-	18-12.6-	-	-	6.8-	125-	-2-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	
02-67	4383-160	2567-2-27-	n-405047	08/20/76-16-	17-11.8-	-	-	7.2-	210-	-2-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42
02-67	4044-160	3733-2-27-	n-405048	08/20/76-16-	18-12.2-	-	-	7.2-	210-	-2-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.87
02-67	4433-160	3667-2-27-	n-405049	08/20/76-16-	18-12.0-	-	-	7.3-	120-	-2-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.12
02-67	5000-160	3050-2-27-	n-405050	08/20/76-16-	17-11.6-	-	-	6.8-	200-	-2-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.95
02-67	5278-160	2725-2-27-	n-405051	08/20/76-17-	17-11.8-	-	-	6.6-	120-	-2-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.01
02-67	5633-160	3033-2-27-	n-405052	08/20/76-15-	17-10.8-	-	-	7.0-	120-	-2-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.74
02-67	5039-160	1867-2-27-	n-405053	08/20/76-17-	18-12.8-	-	-	7.4-	130-	-2-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.93
02-67	4478-160	4333-2-27-	n-405054	08/20/76-17-	17-12.0-	-	-	7.0-	120-	-2-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.55

APPENDIX C

LISTINGS OF FIELD DATA AND URANIUM CONCENTRATIONS FOR SEDIMENT SAMPLES

(See Appendix D for Code to Listings)

APPENDIX C. Field Data and Uranium Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																					U CONCENTRATION							
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (cpm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	W. ATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER INCHES	WELL DEPTH FEET	WATER DEPTH FEET	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																										
02-67	0314	-162.4267	-2-13-			0-404001	08/12/76	14-	15-16.6	-S-	8.4		72-	-2-7-6-6-	-3-2-	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70	
02-67	0333	-162.3256	-2-13-			0-404002	08/12/76	14-	15-16.7	-S-	8.5		87-	-2-7-6-6-	-3-2-	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
02-67	0569	-162.4361	-2-13-			0-404003	08/12/76	14-	18-16.4	-S-	7.9		64-	-2-7-6-6-	-3-1-	-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
02-67	0567	-162.3000	-2-13-			0-404004	08/12/76	14-	18-16.8	-S-	8.1		78-	-2-7-6-6-	-3-1-	-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	1100	-162.3133	-2-13-			0-404005	08/12/76	14-	18-16.5	-S-	8.1		76-	-2-7-6-6-	-3-2-	-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	1361	-162.2900	-2-13-			0-404006	08/12/76	14-	18-16.7	-	8.0		72-	-2-7-6-6-	-2-1-	-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
02-67	1958	-162.2600	-2-12-			0-404007	08/12/76	14-	20-14.2	-	8.0		180-	-3-7-4-6-2-2-1-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
02-67	2033	-162.1872	-2-12-			0-404008	08/12/76	14-	18-14.8	-S-	7.9		210-	-3-7-4-6-2-2-1-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80	
02-67	2444	-162.3133	-2-12-			0-404009	08/12/76	14-	20-15.0	-	7.9		210-	-3-7-4-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
02-67	2300	-162.1400	-2-12-			0-404010	08/12/76	14-	20-14.9	-	7.8		290-	-3-7-4-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80	
02-67	2867	-162.2733	-2-12-			0-404011	08/12/76	14-	19-14.7	C-	6.8		320-	-3-7-4-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
02-67	2833	-162.1767	-2-12-			0-404012	08/12/76	14-	20-14.3	C-	6.6		320-	-3-7-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
02-67	3158	-162.2267	-2-12-			0-404013	08/12/76	14-	20-13.5	-	6.6		330-	-3-7-4-6-3-3-1-2-1-3-4-2-	-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	3333	-162.1267	-2-12-			0-404014	08/12/76	14-	20-13.7	-	7.0		290-	-3-6-4-6-3-3-2-1-1-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
02-67	3733	-162.2667	-2-12-			0-404015	08/12/76	14-	20-12.2	-	6.2		340-	-2-7-4-6-2-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
02-67	3656	-162.1233	-2-12-			0-404016	08/12/76	15-	20-14.0	-	6.8		350-	-2-7-4-6-2-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30	
02-67	4000	-162.1750	-2-12-			0-404017	08/12/76	15-	19-12.8	-	6.5		310-	-2-7-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.40	
02-67	4047	-162.2767	-2-12-			0-404018	08/12/76	15-	20-12.9	-	6.8		340-	-2-7-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
02-67	4433	-162.2500	-2-15-			0-404019	08/12/76	15-	20-	-	-		-	-3-7-4-6-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.70
02-67	4567	-162.1567	-2-12-			0-404020	08/12/76	15-	19-14.0	-	6.4		340-	-3-7-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.70	
02-67	4833	-162.2700	-2-12-			0-404021	07/12/76	15-	18-14.5	-	6.8		340-	-2-7-4-6-2-2-1-2-1-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20	
02-67	4894	-162.1633	-2-12-			0-404022	08/12/76	15-	19-14.5	-	7.0		290-	-2-7-4-6-2-2-1-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
02-67	5356	-162.2467	-2-12-			0-404023	08/12/76	15-	20-13.9	-	6.8		340-	-2-7-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	5406	-162.0700	-2-12-			0-404024	08/12/76	15-	20-14.5	-	6.9		310-	-2-7-4-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
02-67	5900	-162.0600	-2-12-			0-404026	08/12/76	15-	19-14.2	-	6.7		270-	-3-7-4-6-2-2-1-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
02-67	6133	-162.1800	-2-12-			0-404027	08/12/76	15-	19-13.9	-	6.6		280-	-2-7-3-6-2-2-1-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
02-67	6233	-162.1333	-2-12-			0-404028	08/12/76	15-	20-14.0	-	6.5		280-	-3-7-4-6-2-2-1-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
02-67	6833	-162.1000	-2-12-			0-404029	08/12/76	15-	19-15.0	-	6.8		210-	-3-6-4-6-2-3-1-2-3-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40	
02-67	6733	-162.2433	-2-12-			0-404030	08/12/76	15-	19-14.7	-	7.0		270-	-3-6-4-6-2-2-1-2-3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
02-67	7200	-162.1900	-2-12-			0-404031	08/12/76	15-	19-13.8	-	7.0		290-	-3-7-4-6-3-3-1-2-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
02-67	7011	-162.0528	-2-12-			0-404032	08/12/76	15-	19-13.5	-	7.0		290-	-3-7-4-6-3-3-1-2-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
02-67	7678	-162.2167	-2-12-			0-404033	08/12/76	16-	19-14.5	-	6.4		210-	-3-7-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.90	
02-67	7683	-162.1267	-2-12-			0-404034	08/12/76	16-	23-14.0	-	6.6		190-	-3-7-4-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
02-67	8061	-162.2367	-2-12-			0-404035	08/12/76	16-	22-14.0	-	6.8		240-	-3-7-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
02-67	8433	-162.2103	-2-12-			0-404036	08/12/76	16-	22-14.0	-	6.8		250-	-3-7-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
02-67	8317	-162.3125	-2-12-			0-404037	08/12/76	16-	18-14.5	-	6.6		120-	-3-7-4-6-3-3-1-2-1-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
02-67	7983	-162.3017	-2-12-			0-404038	08/12/76	16-	20-14.3	-	6.6		180-	-3-7-4-6-3-3-1-2-3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
02-67	7567	-162.3033	-2-12-			0-404039	08/12/76	16-	20-14.5	-	6.6		190-	-3-7-4-6-2-3-1-2-3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	7167	-162.3328	-2-12-			0-404040	08/12/76	16-	20-14.0	-	6.6		170-	-3-7-4-6-3-3-1-2-3-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90	
02-67	6800	-162.2967	-2-12-			0-404041	08/12/76	16-	20-18.2	-	6.9		280-	-2-7-5-6-2-2-1-2-4-3-2-2-	-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
02-67	6297	-162.3600	-2-12-			0-404042	07/12/76	16-	20-18.9	-	7.1		295-	-2-7-5-4-2-2-1-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
02-67	5753	-162.3333	-2-12-			0-404043	08/12/76	16-	20-16.8	-	7.1		270-	-2-7-5-4-2-3-1-2-4-3-3-3-	-1-	-																		

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[illegible]

DOE SAMPLE NUMBER										LASI SAMPLE LOCATION NUMBER AND FIELD DATA										CONCENTRATION												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASI SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLATOR (mCi/gm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANGE	VEGETATION TYPE	VEGETATION DENSITY	REL. EFF.	WEATHER	CONTAMINANTS	WELL TYPE	WELL DEPTH FEET	WATER DEPTH FEET	ANALYZED BY DELAVER NEUTRON COUNTING
							DATE	HOUR																								
02-67	9283-162	7039-2-12	0-404106-07/13/76-10	11-12-4	-	6-6	140	-3-4-4-6-3-3-1	2-3-3-3-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70	
02-67	9600-162	6933-2-12	0-404107-08/13/76-10	10-11-8	-	6-4	230	-3-7-4-6-3-3-1	1-2-3-3-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.10	
02-67	9933-162	8200-2-12	0-404108-08/13/76-10	10-11-0	-	6-6	190	-3-7-4-6-3-3-1	1-2-1-3-3-3-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00	
02-67	9667-162	0067-2-13	0-404110-08/13/76-11	10-5-4	-	8-0	76	-3-7-5-6-3-3-1	4-3-3-3-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
02-67	9217-162	1167-2-13	0-404111-08/13/76-11	10-5-3	-	8-4	86	-3-7-5-6-3-3-1	3-3-3-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
02-67	9333-162	0300-2-13	0-404112-08/13/76-11	11-5-0	-	5	83	-3-7-5-6-3-3-1	3-3-3-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
02-67	8900-162	1367-2-13	0-404113-08/13/76-11	11-5-0	-	8-8	47	-3-7-5-6-3-3-1	4-3-3-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70	
02-67	8950-162	0500-2-13	0-404114-08/13/76-12	11-5-1	-	8-1	100	-3-7-5-6-3-3-1	4-3-3-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
02-67	9783-161	9367-2-13	0-404115-08/13/76-12	11-4-6	-	8-4	125	-3-7-7-6-3-3-1	4-3-3-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
02-67	9783-161	7833-2-13	0-404116-08/13/76-12	11-4-6	-	8-3	120	-3-7-7-6-3-3-1	3-3-3-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
02-67	9933-161	6887-2-13	0-404117-08/13/76-12	11-4-3	-	8-5	123	-3-7-6-6-3-3-1	3-3-3-3-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	9812-161	5267-2-13	0-404118-08/13/76-12	11-4-9	-	8-1	97	-3-7-6-6-3-3-1	3-3-3-4-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
02-67	9233-161	8133-2-12	0-404119-08/13/76-12	11-4-0	-	6-6	310	-3-4-4-6-3-3-1	2-3-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.10	
02-67	9400-161	9333-2-12	0-404120-08/13/76-12	10-13-9	-	6-6	270	-3-4-4-6-3-3-1	2-3-4-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20	
02-67	9033-161	9587-2-12	0-404121-08/13/76-12	10-14-0	-	6-6	270	-3-4-4-6-3-3-1	2-3-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00	
02-67	9000-162	2267-2-13	0-404122-08/13/76-12	10-15-1	-	8-4	76	-3-7-4-6-3-3-1	3-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
02-67	7333-162	8967-2-12	0-404123-08/13/76-13	11-4-0	-	6-8	200	-3-6-4-6-3-3-1	2-1-4-4-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
02-67	7500-163	8887-2-12	0-404124-08/13/76-13	11-4-1	-	6-6	190	-3-6-4-6-3-3-1	2-1-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
02-67	7550-163	0000-2-12	0-404125-08/13/76-13	11-4-4	-	6-8	200	-3-4-4-6-3-3-1	2-1-3-7-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
02-67	7167-163	0300-2-12	0-404126-08/13/76-13	11-13-1	-	6-6	200	-3-4-4-6-3-3-1	2-1-3-7-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
02-67	6617-163	0367-2-12	0-404127-08/13/76-13	11-4-0	-	6-6	200	-3-6-6-6-2-3-1	2-4-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
02-67	6633-163	8867-2-12	0-404128-08/13/76-13	11-3-7	-	6-6	170	-3-6-6-6-2-3-1	2-4-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
02-67	6167-162	8433-2-12	0-404129-08/13/76-13	11-13-1	-	6-8	70	-3-4-5-6-2-2-2	2-3-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
02-67	6600-162	9747-2-12	0-404130-08/13/76-13	10-12-4	-	6-4	110	-3-7-5-6-2-2-1	2-4-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	5733-162	8633-2-12	0-404131-08/13/76-13	10-12-4	-	6-6	80	-3-7-4-6-2-2-1	2-4-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	5850-163	0233-2-12	0-404132-08/13/76-13	10-13-6	-	6-4	120	-3-7-4-6-2-3-1	2-4-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	5330-162	9067-2-12	0-404133-08/13/76-13	12-13-1	-	6-6	125	-3-7-5-6-2-2-5	2-3-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
02-67	5517-163	0200-2-12	0-404134-08/13/76-13	12-11-0	-	6-2	125	-3-7-5-6-2-2-5	2-3-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40	
02-67	5100-163	0767-2-12	0-404135-08/13/76-13	10-12-0	-	6-6	120	-3-7-4-6-2-2-5	2-3-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
02-67	5167-162	9517-2-12	0-404136-08/13/76-13	12-12-0	-	6-6	100	-3-7-4-6-2-2-5	2-3-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
02-67	4567-162	9200-2-13	0-404137-08/13/76-13	10-15-8	-	8-6	22	-3-7-6-6-3-3-1	3-3-3-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	4194-162	9287-2-13	0-404138-08/13/76-13	11-15-6	-	8-4	127	-3-7-6-6-3-3-1	3-3-3-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	3617-162	9287-2-13	0-404139-08/13/76-13	11-14-2	-	8-1	76	-3-6-5-6-3-3-1	4-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10	
02-67	3200-162	9367-2-13	0-404140-08/13/76-13	11-4-9	-	8-6	28	-3-7-4-6-3-3-1	4-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
02-67	2627-162	9217-2-12	0-404142-08/13/76-14	13-11-9	-	6-6	240	-3-7-4-6-2-2-1	2-3-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20	
02-67	2267-162	8567-2-12	0-404143-08/13/76-14	13-14-2	-	6-8	-	-3-7-4-6-2-3-1	2-1-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
02-67	2067-162	8000-2-12	0-404144-08/13/76-14	13-13-1	-	6-6	280	-3-7-4-6-3-3-1	1-2-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
02-67	0022-163	0833-2-13	0-404145-08/13/76-15	14-17-0	-	7-9	247	-2-7-6-6-3-2	4-2-1-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
02-67	0767-162	9833-2-13	0-404146-08/13/76-15	14-17-5	-	8-0	260	-2-7-6-6-3-2	4-2-1-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
02-67	1000-162	9667-2-13	0-404147-08/13/76-15	14-16-5	-	7-5	246	-2-7-6-6-3-2	4-2-1-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
02-67	0900-163	0800-2-13	0-404148-08/13/76-15	14-17-0	-	7-8	380	-2-7-6-6-3-2	4-2-1-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
02-67	1361-163	0733-2-12	0-404149-08/13/76-16	14-12-6	-	8-0	375	-2-6-5-6-2-3-1	2-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
02-67	1556-163	0280-2-12	0-404150-08/13/76-16	14-12-7	-	8-0	375	-2-6-5-6-2-3-1	2-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
02-67	8756-162	4737-2-13	0-404151-08/12/76-21	15-16-1	-	8-5	78	-2-7-4-6-3-1	4-1-1-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
02-67	8517-162	4433-2-13	0-404152-08/12/76-21	15-16-1	-	8-5	18	-2-7-4-6-3-1	4-1-1-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20	
02-67	8700-162	3933-2-13	0-404153-08/12/76-21	16-15-3	-	8-7	21	-2-7-4-6-3-1	4-1-1-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30	
02-67	9167-162	3600-2-12	0-404154-08/12/76-21	15-10-3	-	7-9	140	-16-5-7-4-6-2-3-1	2-4-1-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	
02-67	9608-162	3708-2-12	0-404155-08/12/76-21	14-13-3	-	8-3	90	-14-2-7-4-6-2-3-1	2-4-1-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	
02-67	9433-162	3000-2-12	0-404157-04/12/76-21	13-13-8	-	7-5	215	-14-2-7-4-6-2-3-1	2-4-1-1-1	-	-	-	-	-																		

APPENDIX C (continued). Field Data and Uranium Concentrations for Sediment Samples

DOE SAMPLE NUMBER										LAST SAMPLE LOCATION NUMBER AND FIELD DATA																			DOE SAMPLE NUMBER									
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (umho/cm)	SC-MILLIOMETER (mV/cm)	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 DEPTH INCHES	WELL DEPTH FEET	WATER DEPTH FEET	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC)	U CONCENTRATION UNITS IN ppm			
							DATE	HOUR																														
02-67	9633-162	5833-2-12				0-404160-08/12/76-22	14	5-8	14	5-8			8.2	117	19	2-7-4-6	2-3-1	2-4-3-1	1-1															2.40				
02-67	9256-162	5839-2-12				0-404161-08/12/76-22	15	10-1	15	10-1			7.9	213	16	2-7-4-6	2-3-1	2-4-3-1	1-1																2.40			
02-67	8933-162	5833-2-12				0-404162-08/12/76-22	13	11-1	13	11-1			7.6	150	14	2-7-4-6	2-3-1	2-4-3-1	1-1																2.40			
02-67	8930-162	6333-2-13				0-404163-08/12/76-22	13	16-6	13	16-6			8.6	20	20	2-7-4-6	2-3-1	2-4-3-1	1-1																1.80			
02-67	7850-162	6767-2-13				0-404164-08/12/76-22	14	16-1	14	16-1			8.7	30	30	2-7-4-6	2-3-1	2-4-3-1	1-1																2.00			
02-67	7650-162	6767-2-13				0-404165-08/12/76-22	13	16-7	13	16-7			8.5	51	51	2-7-4-6	2-3-1	2-4-3-1	1-1																2.90			
02-67	7089-162	6667-2-13				0-404166-08/12/76-22	13	14-2	13	14-2			8.4	141	141	2-7-4-6	2-3-1	2-4-3-1	1-1																3.20			
02-67	6850-162	6767-2-13				0-404167-08/12/76-22	13	15-0	13	15-0			8.7	190	190	2-7-4-6	2-3-1	2-4-3-1	1-1																3.00			
02-67	6100-162	6950-2-13				0-404168-08/12/76-22	13	15-6	13	15-6			8.7	28	28	2-7-4-6	2-3-1	2-4-3-1	1-1																2.80			
02-67	5933-162	7133-2-13				0-404169-08/12/76-22	12	13-1	12	13-1			7.9	42	42	2-7-4-6	2-3-1	2-4-3-1	1-1																2.60			
02-67	4767-162	7500-2-13				0-404171-08/12/76-22	13	15-0	13	15-0			7.9	112	112	2-7-4-6	2-3-1	2-4-3-1	1-1																2.70			
02-67	4533-162	7372-2-13				0-404172-08/12/76-22	13	16-1	13	16-1			7.8	59	59	2-7-4-6	2-3-1	2-4-3-1	1-1																2.30			
02-67	1050-162	7533-2-13				0-404173-08/12/76-22	12	13-9	12	13-9			8.2	383	383	2-7-4-6	2-3-1	2-4-3-1	1-1																2.40			
02-67	0750-162	7500-2-13				0-404174-08/12/76-22	12	14-0	12	14-0			8.5	290	290	2-7-4-6	2-3-1	2-4-3-1	1-1																2.30			
02-67	0900-162	8467-2-13				0-404175-08/12/76-23	12	13-5	12	13-5			7.9	400	400	2-7-4-6	2-3-1	2-4-3-1	1-1																2.40			
02-67	0667-162	8667-2-13				0-404176-08/12/76-23	12	13-8	12	13-8			8.1	381	381	2-7-4-6	2-3-1	2-4-3-1	1-1																2.20			
02-67	0400-162	1933-2-13				0-404177-08/13/76	8	10-15-3	8	10-15-3			8.8	111	111	3-7-4-7	3-1	3-2-2-4	1-1																2.20			
02-67	0267-162	1333-2-13				0-404178-08/13/76	8	10-15-5	8	10-15-5			8.4	107	107	3-7-4-7	3-1	3-2-2-4	1-1																2.40			
02-67	0567-162	1667-2-13				0-404179-08/13/76	8	10-15-5	8	10-15-5			8.5	124	124	3-7-4-6	3-1	3-2-2-3	1-1																2.40			
02-67	0550-162	0667-2-13				0-404180-08/13/76	8	10-15-5	8	10-15-5			8.6	120	120	3-7-4-6	3-1	3-2-2-3	1-1																2.40			
02-67	1000-162	1867-2-12				0-404181-08/13/76	8	11-11-5	8	11-11-5			6.8	320	320	3-7-4-6	3-1	3-2-2-3	1-1																0.50			
02-67	1033-162	1000-2-12				0-404182-08/13/76	8	10-11-7	8	10-11-7			6.9	210	210	3-7-4-6	3-1	3-2-2-3	1-1																0.30			
02-67	1363-162	1883-2-12				0-404183-08/13/76	8	10-12-0	8	10-12-0			6.8	310	310	3-7-4-6	3-1	3-2-2-3	1-1																1.50			
02-67	1400-162	0767-2-12				0-404184-08/13/76	9	10-11-5	9	10-11-5			6.4	350	350	3-7-4-6	3-1	3-2-2-3	1-1																3.10			
02-67	2017-162	0633-2-12				0-404185-08/13/76	9	10-10-5	9	10-10-5			6.2	125	125	3-7-4-6	3-1	3-2-2-3	1-1																2.90			
02-67	1556-162	0319-2-12				0-404186-08/13/76	8	10-10-5	8	10-10-5			6.6	143	143	3-7-4-6	3-1	3-2-2-3	1-1																3.20			
02-67	2433-162	0767-2-12				0-404187-08/13/76	9	10-10-3	9	10-10-3			6.5	190	190	3-7-4-6	3-1	3-2-2-3	1-1																2.70			
02-67	2722-162	0894-2-12				0-404188-08/13/76	9	10-11-0	9	10-11-0			6.2	140	140	3-7-4-6	3-1	3-2-2-3	1-1																3.40			
02-67	2933-162	3367-2-12				0-404189-08/13/76	9	10-16-4	9	10-16-4			8.7	74	74	3-7-4-7	3-1	3-3-3-3	1-1																3.20			
02-67	3389-162	7958-2-13				0-404190-08/13/76	9	10-15-9	9	10-15-9			8.8	103	103	3-7-4-7	3-1	3-3-3-3	1-1																3.20			
02-67	4833-162	8167-2-13				0-404194-08/13/76	9	10-15-5	9	10-15-5			8.9	101	101	3-7-4-6	3-1	3-3-3-3	1-1																2.10			
02-67	5350-162	8000-2-13				0-404195-08/13/76	9	10-14-9	9	10-14-9			8.5	38	38	3-7-5-6	3-1	3-3-2-3	1-1																2.60			
02-67	5733-162	7500-2-13				0-404196-08/13/76	9	11-15-2	9	11-15-2			8.2	78	78	3-7-4-6	3-1	3-2-2-3	1-1																2.70			
02-67	6217-162	7500-2-13				0-404197-08/13/76	10	10-15-3	10	10-15-3			8.4	13	13	3-7-6-5	3-1	4-3-2-3	1-1																2.40			
02-67	6533-162	7567-2-13				0-404198-08/13/76	10	10-15-8	10	10-15-8			6.5	19	19	3-7-5-6	3-1	4-3-2-3	1-1																3.00			
02-67	7017-162	7833-2-12				0-404199-08/13/76	10	11-13-4	10	11-13-4			6.6	270	270	3-7-4-6	3-1	3-3-2-3	1-1																3.10			
02-67	7457-162	7567-2-12				0-404200-08/13/76	10	11-13-0	10	11-13-0			6.6	240	240	3-7-4-6	3-1	3-3-2-3	1-1																3.00			
02-67	1578-162	9050-2-12				0-404201-08/13/76	16	14-10-9	16	14-10-9			7.8	320	320	2-6-6	2-3-1	2-3-2-3	1-1																2.70			
02-67	1900-162	9200-2-12				0-404202-08/13/76	16	14-12-5	16	14-12-5			7.6	331	331	2-6-6	2-3-1	2-3-2-3	1-1																2.80			
02-67	2033-163	1060-2-12				0-404203-08/13/76	16	14-10-4	16	14-10-4			8.0	270	270	2-6-4-6	3-3-1	2-3-2-3	1-1																1.40			
02-67	1856-163	0667-2-12				0-404204-08/13/76	16	14-11-8	16	14-11-8			8.0	256	256	2-6-4-6	3-3-1	2-3-2-3	1-1																1.70			
02-67	2367-163	1900-2-12				0-404205-08/13/76	16	14-11-0	16	14-11-0			7.2	180	180	2-6-4-6	3																					

APPENDIX C (continued). Field Data and Uranium Concentrations for Sediment Samples

[illegible]

APPENDIX C (continued). Field Data and Uranium Concentrations for Sediment Samples

[illegible]

APPENDIX C (continued). Field Data and Uranium Concentrations for Sediment Samples

[illegible]

53

DOE SAMPLE NUMBER					LAST SAMPLE LOCATION NUMBER AND FIELD DATA																											CONCENTRATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE	TDS	TURBIDITY	CHLOROPHYLL A	CHLOROPHYLL B	CHLOROPHYLL C	CHLOROPHYLL D	CHLOROPHYLL E	CHLOROPHYLL F	CHLOROPHYLL G	CHLOROPHYLL H	CHLOROPHYLL I	CHLOROPHYLL J	CHLOROPHYLL K	CHLOROPHYLL L	CHLOROPHYLL M	CHLOROPHYLL N	CHLOROPHYLL O	CHLOROPHYLL P	CHLOROPHYLL Q	CHLOROPHYLL R	CHLOROPHYLL S	CHLOROPHYLL T	CHLOROPHYLL U	CHLOROPHYLL V	CHLOROPHYLL W	CHLOROPHYLL X	CHLOROPHYLL Y	CHLOROPHYLL Z	CHLOROPHYLL AA	CHLOROPHYLL AB	CHLOROPHYLL AC	CHLOROPHYLL AD	CHLOROPHYLL AE	CHLOROPHYLL AF	CHLOROPHYLL AG	CHLOROPHYLL AH	CHLOROPHYLL AI	CHLOROPHYLL AJ	CHLOROPHYLL AK	CHLOROPHYLL AL	CHLOROPHYLL AM	CHLOROPHYLL AN	CHLOROPHYLL AO	CHLOROPHYLL AP	CHLOROPHYLL AQ	CHLOROPHYLL AR	CHLOROPHYLL AS	CHLOROPHYLL AT	CHLOROPHYLL AU	CHLOROPHYLL AV	CHLOROPHYLL AW	CHLOROPHYLL AX	CHLOROPHYLL AY	CHLOROPHYLL AZ	CHLOROPHYLL BA	CHLOROPHYLL BB	CHLOROPHYLL BC	CHLOROPHYLL BD	CHLOROPHYLL BE	CHLOROPHYLL BF	CHLOROPHYLL BG	CHLOROPHYLL BH	CHLOROPHYLL BI	CHLOROPHYLL BJ	CHLOROPHYLL BK	CHLOROPHYLL BL	CHLOROPHYLL BM	CHLOROPHYLL BN	CHLOROPHYLL BO	CHLOROPHYLL BP	CHLOROPHYLL BQ	CHLOROPHYLL BR	CHLOROPHYLL BS	CHLOROPHYLL BT	CHLOROPHYLL BU	CHLOROPHYLL BV	CHLOROPHYLL BW	CHLOROPHYLL BX	CHLOROPHYLL BY	CHLOROPHYLL BZ	CHLOROPHYLL CA	CHLOROPHYLL CB	CHLOROPHYLL CC	CHLOROPHYLL CD	CHLOROPHYLL CE	CHLOROPHYLL CF	CHLOROPHYLL CG	CHLOROPHYLL CH	CHLOROPHYLL CI	CHLOROPHYLL CJ	CHLOROPHYLL CK	CHLOROPHYLL CL	CHLOROPHYLL CM	CHLOROPHYLL CN	CHLOROPHYLL CO	CHLOROPHYLL CP	CHLOROPHYLL CQ	CHLOROPHYLL CR	CHLOROPHYLL CS	CHLOROPHYLL CT	CHLOROPHYLL CU	CHLOROPHYLL CV	CHLOROPHYLL CW	CHLOROPHYLL CX	CHLOROPHYLL CY	CHLOROPHYLL CZ	CHLOROPHYLL DA	CHLOROPHYLL DB	CHLOROPHYLL DC	CHLOROPHYLL DD	CHLOROPHYLL DE	CHLOROPHYLL DF	CHLOROPHYLL DG	CHLOROPHYLL DH	CHLOROPHYLL DI	CHLOROPHYLL DJ	CHLOROPHYLL DK	CHLOROPHYLL DL	CHLOROPHYLL DM	CHLOROPHYLL DN	CHLOROPHYLL DO	CHLOROPHYLL DP	CHLOROPHYLL DQ	CHLOROPHYLL DR	CHLOROPHYLL DS	CHLOROPHYLL DT	CHLOROPHYLL DU	CHLOROPHYLL DV	CHLOROPHYLL DW	CHLOROPHYLL DX	CHLOROPHYLL DY	CHLOROPHYLL DZ	CHLOROPHYLL EA	CHLOROPHYLL EB	CHLOROPHYLL EC	CHLOROPHYLL ED	CHLOROPHYLL EE	CHLOROPHYLL EF	CHLOROPHYLL EG	CHLOROPHYLL EH	CHLOROPHYLL EI	CHLOROPHYLL EJ	CHLOROPHYLL EK	CHLOROPHYLL EL	CHLOROPHYLL EM	CHLOROPHYLL EN	CHLOROPHYLL EO	CHLOROPHYLL EP	CHLOROPHYLL EQ	CHLOROPHYLL ER	CHLOROPHYLL ES	CHLOROPHYLL ET	CHLOROPHYLL EU	CHLOROPHYLL EV	CHLOROPHYLL EW	CHLOROPHYLL EX	CHLOROPHYLL EY	CHLOROPHYLL EZ	CHLOROPHYLL FA	CHLOROPHYLL FB	CHLOROPHYLL FC	CHLOROPHYLL FD	CHLOROPHYLL FE	CHLOROPHYLL FF	CHLOROPHYLL FG	CHLOROPHYLL FH	CHLOROPHYLL FI	CHLOROPHYLL FJ	CHLOROPHYLL FK	CHLOROPHYLL FL	CHLOROPHYLL FM	CHLOROPHYLL FN	CHLOROPHYLL FO	CHLOROPHYLL FP	CHLOROPHYLL FQ	CHLOROPHYLL FR	CHLOROPHYLL FS	CHLOROPHYLL FT	CHLOROPHYLL FU	CHLOROPHYLL FV	CHLOROPHYLL FW	CHLOROPHYLL FX	CHLOROPHYLL FY	CHLOROPHYLL FZ	CHLOROPHYLL GA	CHLOROPHYLL GB	CHLOROPHYLL GC	CHLOROPHYLL GD	CHLOROPHYLL GE	CHLOROPHYLL GF	CHLOROPHYLL GG	CHLOROPHYLL GH	CHLOROPHYLL GI	CHLOROPHYLL GJ	CHLOROPHYLL GK	CHLOROPHYLL GL	CHLOROPHYLL GM	CHLOROPHYLL GN	CHLOROPHYLL GO	CHLOROPHYLL GP	CHLOROPHYLL GQ	CHLOROPHYLL GR	CHLOROPHYLL GS	CHLOROPHYLL GT	CHLOROPHYLL GU	CHLOROPHYLL GV	CHLOROPHYLL GW	CHLOROPHYLL GX	CHLOROPHYLL GY	CHLOROPHYLL GZ	CHLOROPHYLL HA	CHLOROPHYLL HB	CHLOROPHYLL HC	CHLOROPHYLL HD	CHLOROPHYLL HE	CHLOROPHYLL HF	CHLOROPHYLL HG	CHLOROPHYLL HH	CHLOROPHYLL HI	CHLOROPHYLL HJ	CHLOROPHYLL HK	CHLOROPHYLL HL	CHLOROPHYLL HM	CHLOROPHYLL HN	CHLOROPHYLL HO	CHLOROPHYLL HP	CHLOROPHYLL HQ	CHLOROPHYLL HR	CHLOROPHYLL HS	CHLOROPHYLL HT	CHLOROPHYLL HU	CHLOROPHYLL HV	CHLOROPHYLL HW	CHLOROPHYLL HX	CHLOROPHYLL HY	CHLOROPHYLL HZ	CHLOROPHYLL IA	CHLOROPHYLL IB	CHLOROPHYLL IC	CHLOROPHYLL ID	CHLOROPHYLL IE	CHLOROPHYLL IF	CHLOROPHYLL IG	CHLOROPHYLL IH	CHLOROPHYLL II	CHLOROPHYLL IJ	CHLOROPHYLL IK	CHLOROPHYLL IL	CHLOROPHYLL IM	CHLOROPHYLL IN	CHLOROPHYLL IO	CHLOROPHYLL IP	CHLOROPHYLL IQ	CHLOROPHYLL IR	CHLOROPHYLL IS	CHLOROPHYLL IT	CHLOROPHYLL IU	CHLOROPHYLL IV	CHLOROPHYLL IW	CHLOROPHYLL IX	CHLOROPHYLL IY	CHLOROPHYLL IZ	CHLOROPHYLL JA	CHLOROPHYLL JB	CHLOROPHYLL JC	CHLOROPHYLL JD	CHLOROPHYLL JE	CHLOROPHYLL JF	CHLOROPHYLL JG	CHLOROPHYLL JH	CHLOROPHYLL JI	CHLOROPHYLL JJ	CHLOROPHYLL JK	CHLOROPHYLL JL	CHLOROPHYLL JM	CHLOROPHYLL JN	CHLOROPHYLL JO	CHLOROPHYLL JP	CHLOROPHYLL JQ	CHLOROPHYLL JR	CHLOROPHYLL JS	CHLOROPHYLL JT	CHLOROPHYLL JU	CHLOROPHYLL JV	CHLOROPHYLL JW	CHLOROPHYLL JX	CHLOROPHYLL JY	CHLOROPHYLL JZ	CHLOROPHYLL KA	CHLOROPHYLL KB	CHLOROPHYLL KC	CHLOROPHYLL KD	CHLOROPHYLL KE	CHLOROPHYLL KF	CHLOROPHYLL KG	CHLOROPHYLL KH	CHLOROPHYLL KI	CHLOROPHYLL KJ	CHLOROPHYLL KK	CHLOROPHYLL KL	CHLOROPHYLL KM	CHLOROPHYLL KN	CHLOROPHYLL KO	CHLOROPHYLL KP	CHLOROPHYLL KQ	CHLOROPHYLL KR	CHLOROPHYLL KS	CHLOROPHYLL KT	CHLOROPHYLL KU	CHLOROPHYLL KV	CHLOROPHYLL KW	CHLOROPHYLL KX	CHLOROPHYLL KY	CHLOROPHYLL KZ	CHLOROPHYLL LA	CHLOROPHYLL LB	CHLOROPHYLL LC	CHLOROPHYLL LD	CHLOROPHYLL LE	CHLOROPHYLL LF	CHLOROPHYLL LG	CHLOROPHYLL LH	CHLOROPHYLL LI	CHLOROPHYLL LJ	CHLOROPHYLL LK	CHLOROPHYLL LL	CHLOROPHYLL LM	CHLOROPHYLL LN	CHLOROPHYLL LO	CHLOROPHYLL LP	CHLOROPHYLL LQ	CHLOROPHYLL LR	CHLOROPHYLL LS	CHLOROPHYLL LT	CHLOROPHYLL LU	CHLOROPHYLL LV	CHLOROPHYLL LW	CHLOROPHYLL LX	CHLOROPHYLL LY	CHLOROPHYLL LZ	CHLOROPHYLL MA	CHLOROPHYLL MB	CHLOROPHYLL MC	CHLOROPHYLL MD	CHLOROPHYLL ME	CHLOROPHYLL MF	CHLOROPHYLL MG	CHLOROPHYLL MH	CHLOROPHYLL MI	CHLOROPHYLL MJ	CHLOROPHYLL MK	CHLOROPHYLL ML	CHLOROPHYLL MM	CHLOROPHYLL MN	CHLOROPHYLL MO	CHLOROPHYLL MP	CHLOROPHYLL MQ	CHLOROPHYLL MR	CHLOROPHYLL MS	CHLOROPHYLL MT	CHLOROPHYLL MU	CHLOROPHYLL MV	CHLOROPHYLL MW	CHLOROPHYLL MX	CHLOROPHYLL MY	CHLOROPHYLL MZ	CHLOROPHYLL NA	CHLOROPHYLL NB	CHLOROPHYLL NC	CHLOROPHYLL ND	CHLOROPHYLL NE	CHLOROPHYLL NF	CHLOROPHYLL NG	CHLOROPHYLL NH	CHLOROPHYLL NI	CHLOROPHYLL NJ	CHLOROPHYLL NK	CHLOROPHYLL NL	CHLOROPHYLL NM	CHLOROPHYLL NO	CHLOROPHYLL NP	CHLOROPHYLL NQ	CHLOROPHYLL NR	CHLOROPHYLL NS	CHLOROPHYLL NT	CHLOROPHYLL NU	CHLOROPHYLL NV	CHLOROPHYLL NW	CHLOROPHYLL NX	CHLOROPHYLL NY	CHLOROPHYLL NZ	CHLOROPHYLL OA	CHLOROPHYLL OB	CHLOROPHYLL OC	CHLOROPHYLL OD	CHLOROPHYLL OE	CHLOROPHYLL OF	CHLOROPHYLL OG	CHLOROPHYLL OH	CHLOROPHYLL OI	CHLOROPHYLL OJ	CHLOROPHYLL OK	CHLOROPHYLL OL	CHLOROPHYLL OM	CHLOROPHYLL ON	CHLOROPHYLL OO	CHLOROPHYLL OP	CHLOROPHYLL OQ	CHLOROPHYLL OR	CHLOROPHYLL OS	CHLOROPHYLL OT	CHLOROPHYLL OU	CHLOROPHYLL OV	CHLOROPHYLL OW	CHLOROPHYLL OX	CHLOROPHYLL OY	CHLOROPHYLL OZ	CHLOROPHYLL PA	CHLOROPHYLL PB	CHLOROPHYLL PC	CHLOROPHYLL PD	CHLOROPHYLL PE	CHLOROPHYLL PF	CHLOROPHYLL PG	CHLOROPHYLL PH	CHLOROPHYLL PI	CHLOROPHYLL PJ	CHLOROPHYLL PK	CHLOROPHYLL PL	CHLOROPHYLL PM	CHLOROPHYLL PN	CHLOROPHYLL PO	CHLOROPHYLL PP	CHLOROPHYLL PQ	CHLOROPHYLL PR	CHLOROPHYLL PS	CHLOROPHYLL PT	CHLOROPHYLL PU	CHLOROPHYLL PV	CHLOROPHYLL PW	CHLOROPHYLL PX	CHLOROPHYLL PY	CHLOROPHYLL PZ	CHLOROPHYLL QA	CHLOROPHYLL QB	CHLOROPHYLL QC	CHLOROPHYLL QD	CHLOROPHYLL QE	CHLOROPHYLL QF	CHLOROPHYLL QG	CHLOROPHYLL QH	CHLOROPHYLL QI	CHLOROPHYLL QJ	CHLOROPHYLL QK	CHLOROPHYLL QL	CHLOROPHYLL QM	CHLOROPHYLL QN	CHLOROPHYLL QO	CHLOROPHYLL QP	CHLOROPHYLL QQ	CHLOROPHYLL QR	CHLOROPHYLL QS	CHLOROPHYLL QT	CHLOROPHYLL QU	CHLOROPHYLL QV	CHLOROPHYLL QW	CHLOROPHYLL QX	CHLOROPHYLL QY	CHLOROPHYLL QZ	CHLOROPHYLL RA	CHLOROPHYLL RB	CHLOROPHYLL RC	CHLOROPHYLL RD	CHLOROPHYLL RE	CHLOROPHYLL RF	CHLOROPHYLL RG	CHLOROPHYLL RH	CHLOROPHYLL RI	CHLOROPHYLL RJ	CHLOROPHYLL RK	CHLOROPHYLL RL	CHLOROPHYLL RM	CHLOROPHYLL RN	CHLOROPHYLL RO	CHLOROPHYLL RP	CHLOROPHYLL RQ	CHLOROPHYLL RR	CHLOROPHYLL RS	CHLOROPHYLL RT	CHLOROPHYLL RU	CHLOROPHYLL RV	CHLOROPHYLL RW	CHLOROPHYLL RX	CHLOROPHYLL RY	CHLOROPHYLL RZ	CHLOROPHYLL SA	CHLOROPHYLL SB	CHLOROPHYLL SC	CHLOROPHYLL SD	CHLOROPHYLL SE	CHLOROPHYLL SF	CHLOROPHYLL SG	CHLOROPHYLL SH	CHLOROPHYLL SI	CHLOROPHYLL SJ	CHLOROPHYLL SK	CHLOROPHYLL SL	CHLOROPHYLL SM	CHLOROPHYLL SN	CHLOROPHYLL SO	CHLOROPHYLL SP	CHLOROPHYLL SQ	CHLOROPHYLL SR	CHLOROPHYLL SS	CHLOROPHYLL ST	CHLOROPHYLL SU	CHLOROPHYLL SV	CHLOROPHYLL SW	CHLOROPHYLL SX	CHLOROPHYLL SY	CHLOROPHYLL SZ	CHLOROPHYLL TA	CHLOROPHYLL TB	CHLOROPHYLL TC	CHLOROPHYLL TD	CHLOROPHYLL TE	CHLOROPHYLL TF	CHLOROPHYLL TG	CHLOROPHYLL TH	CHLOROPHYLL TI	CHLOROPHYLL TJ	CHLOROPHYLL TK	CHLOROPHYLL TL	CHLOROPHYLL TM	CHLOROPHYLL TN	CHLOROPHYLL TO	CHLOROPHYLL TP	CHLOROPHYLL TQ	CHLOROPHYLL TR	CHLOROPHYLL TS	CHLOROPHYLL TT	CHLOROPHYLL TU	CHLOROPHYLL TV	CHLOROPHYLL TW	CHLOROPHYLL TX	CHLOROPHYLL TY	CHLOROPHYLL TZ	CHLOROPHYLL UA	CHLOROPHYLL UB	CHLOROPHYLL UC	CHLOROPHYLL UD	CHLOROPHYLL UE	CHLOROPHYLL UF	CHLOROPHYLL UG	CHLOROPHYLL UH	CHLOROPHYLL UI	CHLOROPHYLL UJ	CHLOROPHYLL UK	CHLOROPHYLL UL	CHLOROPHYLL UM	CHLOROPHYLL UN	CHLOROPHYLL UO	CHLOROPHYLL UP	CHLOROPHYLL UQ	CHLOROPHYLL UR	CHLOROPHYLL US	CHLOROPHYLL UT	CHLOROPHYLL UY	CHLOROPHYLL UZ	CHLOROPHYLL VA	CHLOROPHYLL VB	CHLOROPHYLL VC	CHLOROPHYLL VD	CHLOROPHYLL VE	CHLOROPHYLL VF	CHLOROPHYLL VG	CHLOROPHYLL VH	CHLOROPHYLL VI	CHLOROPHYLL VJ	CHLOROPHYLL VK	CHLOROPHYLL VL	CHLOROPHYLL VM	CHLOROPHYLL VN	CHLOROPHYLL VO	CHLOROPHYLL VP	CHLOROPHYLL VQ	CHLOROPHYLL VR	CHLOROPHYLL VS	CHLOROPHYLL VT	CHLOROPHYLL VU	CHLOROPHYLL VV	CHLOROPHYLL VW	CHLOROPHYLL VX	CHLOROPHYLL VY	CHLOROPHYLL VZ	CHLOROPHYLL WA	CHLOROPHYLL WB	CHLOROPHYLL WC	CHLOROPHYLL WD	CHLOROPHYLL WE	CHLOROPHYLL WF	CHLOROPHYLL WG	CHLOROPHYLL WH	CHLOROPHYLL WI	CHLOROPHYLL WJ	CHLOROPHYLL WK	CHLOROPHYLL WL	CHLOROPHYLL WM	CHLOROPHYLL WN	CHLOROPHYLL WO	CHLOROPHYLL WP	CHLOROPHYLL WQ	CHLOROPHYLL WR	CHLOROPHYLL WS	CHLOROPHYLL WT	CHLOROPHYLL WU	CHLOROPHYLL WV	CHLOROPHYLL WW	CHLOROPHYLL WX	CHLOROPHYLL WY	CHLOROPHYLL WZ	CHLOROPHYLL XA	CHLOROPHYLL XB	CHLOROPHYLL XC	CHLOROPHYLL XD	CHLOROPHYLL XE	CHLOROPHYLL XF	CHLOROPHYLL XG	CHLOROPHYLL XH	CHLOROPHYLL XI	CHLOROPHYLL XJ	CHLOROPHYLL XK	CHLOROPHYLL XL	CHLOROPHYLL XM	CHLOROPHYLL XN	CHLOROPHYLL XO	CHLOROPHYLL XP	CHLOROPHYLL XQ	CHLOROPHYLL XR	CHLOROPHYLL XS	CHLOROPHYLL XT	CHLOROPHYLL XU	CHLOROPHYLL XV	CHLOROPHYLL XW	CHLOROPHYLL XX	CHLOROPHYLL XY	CHLOROPHYLL XZ	CHLOROPHYLL YA	CHLOROPHYLL YB	CHLOROPHYLL YC	CHLOROPHYLL YD	CHLOROPHYLL YE	CHLOROPHYLL YF	CHLOROPHYLL YG	CHLOROPHYLL YH	CHLOROPHYLL YI	CHLOROPHYLL YJ	CHLOROPHYLL YK	CHLOROPHYLL YL	CHLOROPHYLL YM	CHLOROPHYLL YN	CHLOROPHYLL YO	CHLOROPHYLL YP	CHLOROPHYLL YQ	CHLOROPHYLL YR	CHLOROPHYLL YS	CHLOROPHYLL YT	CHLOROPHYLL YU	CHLOROPHYLL YV	CHLOROPHYLL YW	CHLOROPHYLL YX	CHLOROPHYLL YY	CHLOROPHYLL YZ	CHLOROPHYLL ZA	CHLOROPHYLL ZB	CHLOROPHYLL ZC	CHLOROPHYLL ZD	CHLOROPHYLL ZE	CHLOROPHYLL ZF	CHLOROPHYLL ZG	CHLOROPHYLL ZH	CHLOROPHYLL ZI	CHLOROPHYLL ZJ	CHLOROPHYLL ZK	CHLOROPHYLL ZL	CHLOROPHYLL ZM	CHLOROPHYLL ZN	CHLOROPHYLL ZO	CHLOROPHYLL ZP	CHLOROPHYLL ZQ	CHLOROPHYLL ZR	CHLOROPHYLL ZS	CHLOROPHYLL ZT	CHLOROPHYLL ZU	CHLOROPHYLL ZV	CHLOROPHYLL ZW	CHLOROPHYLL ZX	CHLOROPHYLL ZY	CHLOROPHYLL ZZ	CHLOROPHYLL AA	CHLOROPHYLL AB	CHLOROPHYLL AC	CHLOROPHYLL AD	CHLOROPHYLL AE	CHLOROPHYLL AF	CHLOROPHYLL AG	CHLOROPHYLL AH	CHLOROPHYLL AI	CHLOROPHYLL AJ	CHLOROPHYLL AK	CHLOROPHYLL AL	CHLOROPHYLL AM	CHLOROPHYLL AN	CHLOROPHYLL AO	CHLOROPHYLL AP	CHLOROPHYLL AQ	CHLOROPHYLL AR	CHLOROPHYLL AS	CHLOROPHYLL AT	CHLOROPHYLL AU	CHLOROPHYLL AV	CHLOROPHYLL AW	CHLOROPHYLL AX	CHLOROPHYLL AY	CHLOROPHYLL AZ	CHLOROPHYLL BA	CHLOROPHYLL BB	CHLOROPHYLL BC	CHLOROPHYLL BD	CHLOROPHYLL BE	CHLOROPHYLL BF	CHLOROPHYLL BG	CHLOROPHYLL BH	CHLOROPHYLL BI	CHLOROPHYLL BJ	CHLOROPHYLL BK	CHLOROPHYLL BL	CHLOROPHYLL BM	CHLOROPHYLL BN	CHLOROPHYLL BO	CHLOROPHYLL BP	CHLOROPHYLL BQ	CHLOROPHYLL BR	CHLOROPHYLL BS	CHLOROPHYLL BT	CHLOROPHYLL BU	CHLOROPHYLL BV	CHLOROPHYLL BW	CHLOROPHYLL BX	CHLOROPHYLL BY	CHLOROPHYLL BZ	CHLOROPHYLL CA	CHLOROPHYLL CB	CHLOROPHYLL CC	CHLOROPHYLL CD	CHLOROPHYLL CE	CHLOROPHYLL CF	CHLOROPHYLL CG	CHLOROPHYLL CH	CHLOROPHYLL CI	CHLOROPHYLL CJ	CHLOROPHYLL CK	CHLOROPHYLL CL	CHLOROPHYLL CM	CHLOROPHYLL CN	CHLOROPHYLL CO	CHLOROPHYLL CP	CHLOROPHYLL CQ	CHLOROPHYLL CR	CHLOROPHYLL CS	CHLOROPHYLL CT	CHLOROPHYLL CU	CHLOROPHYLL CV	CHLOROPHYLL CW	CHLOROPHYLL CX	CHLOROPHYLL CY	CHLOROPHYLL CZ	CHLOROPHYLL DA	CHLOROPHYLL DB	CHLOROPHYLL DC	CHLOROPHYLL DD	CHLOROPHYLL DE	CHLOROPHYLL DF	CHLOROPHYLL DG	CHLOROPHYLL DH	CHLOROPHYLL DI	CHLOROPHYLL DJ	CHLOROPHYLL DK	CHLOROPHYLL DL	CHLOROPHYLL DM	CHLOROPHYLL DN	CHLOROPHYLL DO	CHLOROPHYLL DP	CHLOROPHYLL DQ	CHLOROPHYLL DR	CHLOROPHYLL DS	CHLOROPHYLL DT	CHLOROPHYLL DU	CHLOROPHYLL DV	CHLOROPHYLL DW	CHLOROPHYLL DX	CHLOROPHYLL DY	CHLOROPHYLL DZ	CHLOROPHYLL EA

[illegible]

APPENDIX C (continued). Field Data and Uranium Concentrations for Sediment Samples

[illegible]

APPENDIX C (continued). Field Data and Uranium Concentrations for Sediment Samples

[illegible]

57

[illegible]

APPENDIX C (continued). Field Data and Uranium Concentrations for Sediment Samples

DOE SAMPLE NUMBER										LAST SAMPLE LOCATION NUMBER AND FIELD DATA										U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LOCAL LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	pH	SPECIFIC CONDUCTANCE (microhm-cm)	SCINTILLOMETER (cpm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	VEGETATION TYPE	VEGETATION DENSITY	DEPTH	CONTAMINANTS	WELL TYPE	WELL DIAMETER INCHES	WELL DEPTH FEET	WATER DEPTH FEET	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING DMC-1	U CONCENTRATION UNITS IN DPM
							DATE	HOUR																							
02-67	4633-159	9200-2-12	-	-	-	0404798	08/18/76	16	15-11.5	-	-	7.9	83	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.70		
02-67	4783-159	9633-2-12	-	-	-	0404799	08/18/76	16	16-12.1	-	-	8.2	81	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.90		
02-67	4833-160	0300-2-12	-	-	-	0404800	08/18/76	16	16-12.0	-	-	7.9	41	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.10		
02-67	4500-160	0867-2-12	-	-	-	0404801	08/18/76	16	16-11.8	-	-	8.4	75	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.00		
02-67	4600-160	1500-2-12	-	-	-	0404802	08/18/76	16	17-12.2	-	-	8.8	86	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.70		
02-67	4900-159	7987-2-12	-	-	-	0404803	08/18/76	16	15-12.1	-	-	8.6	74	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.30		
02-67	6333-159	6100-2-12	-	-	-	0404804	08/18/76	16	16-11.8	-	-	7.5	51	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.70		
02-67	6261-159	7200-2-12	-	-	-	0404805	08/18/76	16	16-11.4	-	-	8.0	41	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.50		
02-67	5967-159	8467-2-12	-	-	-	0404806	08/18/76	16	16-12.1	-	-	8.7	45	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.20		
02-67	6200-159	7933-2-12	-	-	-	0404807	08/18/76	16	15-12.8	-	-	7.7	22	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.30		
02-67	6433-159	9333-2-12	-	-	-	0404808	08/18/76	16	15-10.8	-	-	8.1	46	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.30		
02-67	6667-159	9833-2-12	-	-	-	0404809	08/18/76	16	15-11.4	-	-	8.9	31	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.20		
02-67	6861-160	0500-2-12	-	-	-	0404810	08/18/76	16	15-12.2	-	-	8.4	41	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.00		
02-67	6367-160	0733-2-12	-	-	-	0404811	08/18/76	16	16-13.0	-	-	7.8	88	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.10		
02-67	6700-159	8100-2-12	-	-	-	0404812	08/18/76	16	16-10.8	-	-	8.1	56	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.40		
02-67	6700-159	7100-2-12	-	-	-	0404813	08/18/76	16	15-10.5	-	-	7.9	20	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.60		
02-67	5733-159	7033-2-12	-	-	-	0404814	08/18/76	16	15-12.2	-	-	7.4	18	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.40		
02-67	5883-159	6100-2-12	-	-	-	0404815	08/18/76	16	15-12.5	-	-	8.6	73	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	4.10		
02-67	5478-159	7057-2-12	-	-	-	0404816	08/18/76	16	15-12.0	-	-	8.4	42	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	4.10		
02-67	5222-159	6333-2-12	-	-	-	0404817	08/18/76	16	15-12.7	-	-	8.5	38	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.70		
02-67	5311-159	8478-2-12	-	-	-	0404818	08/18/76	17	15-12.1	-	-	7.9	31	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.70		
02-67	5500-159	9093-2-12	-	-	-	0404819	08/18/76	17	16-12.6	-	-	8.4	27	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.70		
02-67	5783-159	9583-2-12	-	-	-	0404820	08/18/76	17	15-11.9	-	-	8.1	78	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.50		
02-67	5767-160	0850-2-12	-	-	-	0404821	08/18/76	17	16-12.4	-	-	7.7	80	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.40		
02-67	5267-160	0433-2-12	-	-	-	0404822	08/18/76	17	15-11.6	-	-	8.0	57	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.90		
02-67	4867-159	7300-2-12	-	-	-	0404823	08/18/76	17	16-12.3	-	-	7.9	57	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	4.00		
02-67	5900-159	3830-2-12	-	-	-	0404824	08/18/76	17	16-11.7	-	-	8.2	48	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.00		
02-67	6183-159	3890-2-12	-	-	-	0404825	08/18/76	17	15-11.9	-	-	7.8	47	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.10		
02-67	6367-159	4833-2-12	-	-	-	0404826	08/18/76	17	15-12.1	-	-	8.6	49	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.40		
02-67	6583-159	3750-2-12	-	-	-	0404827	08/18/76	17	15-11.8	-	-	7.9	42	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.40		
02-67	6556-159	5200-2-12	-	-	-	0404828	08/18/76	17	15-11.2	-	-	7.6	31	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	4.20		
02-67	5733-159	3800-2-12	-	-	-	0404829	08/18/76	17	16-12.0	-	-	7.9	48	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	1.40		
02-67	5689-159	2689-2-12	-	-	-	0404830	08/18/76	17	15-12.3	-	-	8.2	59	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	1.60		
02-67	6083-159	2333-2-12	-	-	-	0404831	08/18/76	10	15-12.5	-	-	8.4	71	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	1.40		
02-67	5467-159	4197-2-12	-	-	-	0404832	08/18/76	17	15-11.1	-	-	7.1	21	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	5.30		
02-67	5011-159	4917-2-12	-	-	-	0404833	08/18/76	17	16-11.4	-	-	8.0	20	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.40		
02-67	4944-159	3797-2-12	-	-	-	0404834	08/18/76	18	15-10.9	-	-	8.1	20	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.80		
02-67	4850-159	5800-2-12	-	-	-	0404835	08/18/76	18	16-10.7	-	-	7.5	18	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.00		
02-67	4367-159	6033-2-12	-	-	-	0404836	08/18/76	18	15-12.5	-	-	8.1	16	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.30		
02-67	4066-159	4891-2-12	-	-	-	0404837	08/18/76	18	16-10.3	-	-	7.2	21	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	4.10		
02-67	4067-159	6111-2-12	-	-	-	0404838	08/18/76	18	16-10.8	-	-	7.1	25	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.50		
02-67	4067-159	4891-2-12	-	-	-	0404839	08/18/76	18	15-11.3	-	-	8.1	31	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	4.10		
02-67	3556-159	6017-2-12	-	-	-	0404840	08/18/76	18	16-11.7	-	-	8.4	49	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	4.10		
02-67	3750-159	5194-2-12	-	-	-	0404841	08/18/76	18	15-12.0	-	-	8.6	58	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	4.10		
02-67	3978-159	4767-2-12	-	-	-	0404842	08/18/76	18	15-11.9	-	-	8.5	81	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.50		
02-67	3300-159	6000-2-12	-	-	-	0404843	08/18/76	18	15-12.4	-	-	7.5	28	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.00		
02-67	2850-159	5944-2-12	-	-	-	0404844	08/18/76	18	15-17.9	-	-	9.5	10	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.30		
02-67	3383-159	8433-2-12	-	-	-	0404845	08/18/76	18	15-11.6	-	-	7.4	15	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.40		
02-67	3600-159	8333-2-12	-	-	-	0404846	08/18/76	18	16-12.1	-	-	8.7	63	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	3.60		
02-67	3586-159	9557-2-12	-	-	-	0404847	08/18/76	18	15-11.8	-	-	8.7	40	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.50		
02-67	3667-160	0333-2-12	-	-	-	0404848	08/18/76	18	10-12.8	-	-	9.1	87	-	-2	7	4	6	2	3	1	2	1	3	3	1	-	-	2.60		

APPENDIX C (continued). Field Data and Uranium Concentrations for Sediment Samples

[illegible]

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[illegible]

APPENDIX C (continued). Field Data and Uranium Concentrations for Sediment Samples

[illegible]

DOE SAMPLE NUMBER				LASI SAMPLE LOCATION NUMBER AND FIELD DATA										U CONCENTRATION																				
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATES	LASI SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (micro mhos/cm)	SCINTILLATION (cpm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL DEPTH INCHES	WELL DEPTH FEET	WATER DEPTH	ANALYZED BY	SEMESTER	U CONCENTRATION (micrograms/l)
							DATE	HOUR																										
02-67	5375-161	0100-2-12				0-405008	08/20/76	12	18-11.6	-	7.8	275	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80		
02-67	5622-161	0900-2-12				0-405009	08/20/76	12	18-9.8	-	7.6	320	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80		
02-67	6117-160	0947-2-12				0-405010	08/20/76	19	18-11.2	-	8.0	45	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80		
02-67	6300-161	0567-2-12				0-405011	08/20/76	12	17-11.2	-	7.6	190	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40		
02-67	6133-161	2161-2-12				0-405012	08/20/76	12	17-11.6	-	7.8	220	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50		
02-67	6800-161	2200-2-12				0-405013	08/20/76	13	18-11.2	-	7.8	126	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10		
02-67	5733-160	0817-2-12				0-405014	08/20/76	13	18-9.5	-	6.7	240	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10		
02-67	4100-161	0233-2-12				0-405015	08/20/76	13	18-10.5	-	8.2	120	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20		
02-67	4439-160	0700-2-12				0-405016	08/20/76	13	18-10.8	-	8.0	115	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20		
02-67	4028-160	0250-2-12				0-405017	08/20/76	13	18-9.7	-	6.6	290	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70		
02-67	3694-160	0600-2-12				0-405018	08/20/76	13	18-9.6	-	6.8	300	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70		
02-67	3683-160	0167-2-12				0-405019	08/20/76	13	17-10.4	-	7.0	275	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80		
02-67	3317-161	0467-2-12				0-405020	08/20/76	13	18-12.0	-	8.0	188	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10		
02-67	2822-161	1633-2-12				0-405021	08/20/76	13	18-11.8	-	7.1	310	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30		
02-67	3267-161	1233-2-12				0-405022	08/20/76	13	18-10.6	-	7.2	295	-	-	-	2-4-4-6-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30		
02-67	3628-161	1333-2-12																																

APPENDIX D

CODE TO DATA LISTINGS

Appendix D-I

Explanation of Codes Used

Appendix D-II

Key to Sample Types

APPENDIX D-I

EXPLANATION OF CODES USED IN APPENDIXES B AND C

DOE SAMPLE NUMBER

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

Alaska	= 02	New Mexico	= 35
Colorado	= 08	Wyoming	= 56
Montana	= 30		

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," Appendix D-II.

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 smaller sequential numbers representing earlier samples back to 000, 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 000.

LASL SAMPLE LOCATION NUMBER AND FIELD DATA

LASL SAMPLE LOCATION NUMBER: A unique six-digit number permanently assigned by the LASL to every location sampled in each state. 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 the various states as follows.

<u>Location Numbers</u>	<u>State</u>
from 000 001 through 099 999	= New Mexico
from 100 001 through 199 999	= Colorado
from 200 001 through 299 999	= Wyoming
from 300 001 through 399 999	= Montana
from 400 001 and above	= Alaska

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

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

WATER TEMPERATURE: The temperature that was measured in the sample water (in situ whenever possible) at the time of sampling, to the nearest one-tenth of a degree Celsius (0.1°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 report on the surrounding area. In the area of this report, dissolved oxygen was taken as a special measurement at most lakes and some few streams. These dissolved oxygen data are presented in Appendix E.

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

SPECIFIC CONDUCTANCE: The conductivity, in $\mu\text{mho/cm}$, that was measured in the water at the sample location at the time of sampling.

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

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

1 = Sedimentary
2 = Metamorphic

3 = Igneous
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/Buf
2 = Yellow
3 = Orange

4 = Pink/Red
5 = Green
6 = Brown

7 = Gray
8 = Black
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
2 = Cobbles
3 = Gravel

4 = Sand
5 = Mud
6 = Muck

7 = Other

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/Buf
2 = Yellow
3 = Orange

4 = Pink/Red
5 = Green
6 = Brown

7 = Gray
8 = Black
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
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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: When shown, the single digit here gives a broad classification of administrative responsibility or general ownership of the land at the sample location, as given below.

1 = Federal	3 = Private	5 = Other
2 = State	4 = Indian	

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 uranium concentration found in the water sample in ppb, or in the sediment sample in ppm. Sample Types No. 1 through 10 and 21 through 30 are water samples, with their uranium concentrations given in ppb, while Sample Types No. 11 through 20 and 31 through 40 are sediment samples, with their uranium concentration given in ppm.

APPENDIX D-II

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 or stream or dry stream, etc.); (b) The sample medium (water or sediment, etc.); 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 appropriate columns of the specially formatted DOE sample numbering system to positively identify the sample type for all LASL sample data submitted.

<u>KEY NO.</u>	<u>SOURCE / MEDIUM / TREATMENT</u>
12	- <u>Wet stream sediment</u> sample <u>dried</u> at $\leq 100^{\circ}\text{C}$ and <u>sieved to -100 mesh</u> through stainless steel sieves.
13	- <u>Wet natural lake sediment</u> sample dried at $\leq 100^{\circ}\text{C}$ and <u>sieved to -100 mesh</u> through stainless steel sieves.
15	- <u>Dry stream sediment</u> sample <u>dried</u> at $\leq 100^{\circ}\text{C}$ (if necessary) and <u>sieved to -100 mesh</u> through stainless steel sieves.
27	- <u>Stream water</u> sample <u>acidified</u> to a pH of ≤ 1 with reagent-grade nitric acid (HNO_3).
29	- <u>Natural lake water</u> sample <u>acidified</u> to a pH of ≤ 1 with reagent-grade nitric acid (HNO_3).

APPENDIX E

DISSOLVED OXYGEN IN WATERS OF THE NOATAK AND PORTIONS
OF THE BAIRD MOUNTAINS AND AMBLER RIVER
NTMS QUADRANGLES, ALASKA

APPENDIX E

DISSOLVED OXYGEN IN WATERS OF THE NOATAK AND PORTIONS OF THE BAIRD MOUNTAINS
AND AMBLER RIVER NTMS QUADRANGLES, ALASKA

LASL Location Number	Dissolved Oxygen (ppm)	LASL Location Number	Dissolved Oxygen (ppm)	LASL Location Number	Dissolved Oxygen (ppm)	LASL Location Number	Dissolved Oxygen (ppm)	LASL Location Number	Dissolved Oxygen (ppm)	LASL Location Number	Dissolved Oxygen (ppm)
404001	9.8	404094	11.0	404171	11.4	404253	10.1	404338	11.5	404686	10.6
404002	10.1	404095	11.4	404172	10.6	404254	10.0	404339	8.9	404687	10.6
404003	10.5	404096	10.6	404173	10.3	404255	10.5	404340	9.7	404701	8.8
404004	10.0	404099	10.3	404174	11.1	404257*	11.3	404341	10.0	404702	10.4
404005	11.1	404100	13.5	404175	10.3	404258*	11.0	404342	9.8	404705	8.8
404052	10.9	404109	10.1	404177	10.2	404269*	8.6	404343	11.3	404706	11.1
404054	11.4	404111	12.5	404178	10.0	404270*	7.9	404348	8.4	404730	11.1
404056	10.2	404112	12.4	404179	10.4	404271*	8.2	404504	10.7	404735	10.7
404057	10.2	404113	9.8	404189	11.3	404281	5.9	404599	10.9	404742	10.4
404058	10.2	404114	10.1	404191	12.2	404282	13.6	404611	10.6	404744	12.9
404059	11.7	404115	11.1	404193	10.6	404283	10.1	404629	10.1	404745	10.4
404060	14.0	404116	11.0	404195	10.5	404285*	10.2	404630	10.0	404762	9.5
404061	14.3	404117	11.7	404197	9.5	404286*	9.9	404631*	11.3	404763	11.5
404062	10.3	404118	10.8	404209	9.6	404287	12.4	404633	10.4	404766	9.5
404063	12.3	404122	10.2	404210	10.0	404288	12.1	404634	10.4	404788	6.1
404064	12.4	404137	9.8	404214	12.0	404290	9.5	404635	10.7	404844	10.4
404065	12.0	404138	10.1	404215*	10.5	404291	10.3	404637	10.9	404852	11.3
404066	9.9	404145	13.0	404216*	11.0	404292	9.2	404651	11.0	404866	10.0
404067	11.5	404146	12.5	404217	13.4	404293	10.5	404652	10.9	404867	10.5
404068	10.6	404147	13.2	404218	9.8	404294	6.8	404653	9.2	404868	11.3
404069	11.6	404148	13.2	404219	13.1	404295	7.4	404654	7.4	404869	10.6
404076	14.2	404151	12.7	404220	12.5	404296	10.3	404655	5.0	404870	10.6
404077	13.9	404152	11.2	404221*	11.0	404297	9.9	404656	6.8	404871	11.4
404078	10.7	404153	12.4	404222*	10.8	404311	8.1	404667	9.4	404874	9.3
404079	10.1	404154*	11.0	404223*	10.9	404312	10.1	404672	15.2	404888	9.0
404080	11.2	404158	9.4	404234	10.2	404313	11.2	404673	10.8	404889	10.1
404081	10.6	404159	10.8	404237*	10.4	404324	9.9	404674	11.3	404895	10.7
404082	10.6	404163	10.6	404245*	11.1	404325	10.1	404675	9.8	404900	11.5
404083	11.1	404164	12.8	404246*	9.9	404326	10.5	404676	10.0	404922	4.7
404084	9.0	404165	12.6	404247*	9.7	404332	9.6	404677	10.6	404928	11.5
404085	11.0	404166	10.7	404248*	10.1	404333	10.1	404678	10.6	404930	11.8
404088*	10.5	404167	11.2	404249	10.1	404334	9.7	404679	12.0	404934	11.5
404091	8.0	404168	7.0	404250*	10.7	404335	9.9	404682	11.5	404945	11.6
404092	2.0	404169	9.3	404251	10.5	404336	5.7	404683	10.1	404964	11.7
404093	10.5	404170	10.7	404252	10.4	404337	7.8	404684	10.2	404990	10.7
								404685	12.0	404992	10.7

* Denotes stream water locations.

NOTE: Of the 214 ponds or small lakes sampled, dissolved oxygen was recorded at only 139, as listed above.

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PLATE I

NURE HYDROGEOCHEMICAL AND STREAM/LAKE SEDIM
SAMPLE LOCATIONS IN
THE AREA OF THE NOATAK QUADRANGLE
ALASKA

3

164°

30'

PLATE I-A

163°

30'

162°00'
66°00'

3

45'

30'

LEGEND

NATURAL LAKE OR POND WATER	SURFACE STREAM WATER	TOTAL URANIUM (ppb)
▲	◻	≤ 0.05
△	◻	0.06 - 0.10
△	◻	0.11 - 0.20
△	◻	0.21 - 0.50
△	◻	0.51 - 1.00
△	◻	1.01 - 2.00
△	◻	2.01 - 5.00
△	◻	

1

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2

PLATE I-A
URANIUM CONCENTRATIONS (ppb) IN WATERS
IN
THE AREA OF THE NOATAK QUADRANGLE
ALASKA

3

164°

30'

PLATE I-B

LEGEND

DRY STREAM SEDIMENT	WET NATURAL LAKE OR POND SEDIMENT	WET STREAM SEDIMENT	TOTAL URANIUM (ppm)
■	▲	◻	≤ 0.5
▣	△	◻	0.6 - 1.0
⊠	△	◻	1.1 - 2.0
⊠	△	◻	2.1 - 4.0
⊠	△	◻	4.1 - 8.0
⊠	△	◻	8.1 - 16.0
⊠	△	◻	16.1 - 32.0
⊠	△	◻	> 32.0

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PLATE I-B
URANIUM CONCENTRATIONS (ppm) IN SEDIMENTS
IN
THE AREA OF THE NOATAK QUADRANGLE,
ALASKA

3

30'

160°

2

PLATE II

160°

30'

159°
68°

45'

3

1810

1809

1812

1813

1828

1827

1811

1808

1907

1805

1804

1826

1825

1831

1806

1915

1824

1821

1820

1814

1829

1830

1819

1816

1817

1833

1832

5039

1822

1818

5038

53

1834

5010

1800

1799

1803

1823

1836

1835

5037

5011

30'

1802

1801

1796

1835

5036

5042

1797

1837

5035

1796

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NURE HYDR

THE AREA Q

PLATE II

HYDROGEOCHEMICAL AND STREAM/LAKE SEDIMENT
SAMPLE LOCATIONS IN
A OF THE BAIRD MOUNTAINS QUADRANGLE
ALASKA

30'

160°

2

PLATE II-A

160°

30'

159°
68°

45'

30'

3

LEGEND

NATURAL LAKE OR POND WATER	SURFACE STREAM WATER	TOTAL URANIUM (ppb)
▲	◻	≤ 0.05
△	◻	0.06 - 0.10
△	◻	0.11 - 0.20
△	◻	0.21 - 0.50
△	◻	0.51 - 1.00
△	◻	1.01 - 2.00
△	◻	2.01 - 5.00

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URA

THE AREA

PLATE II-A

URANIUM CONCENTRATIONS (ppb) IN WATERS
IN

AREA OF THE BAIRD MOUNTAINS QUADRANGLE
ALASKA

WATERS

QUADRANGLE,

3

30'

160°

2

PLATE II-B

LEGEND

WET NATURAL LAKE OR POND SEDIMENT	WET STREAM SEDIMENT	TOTAL URANIUM (ppm)
▲	◻	≤ 0.5
▲	◻	0.6 - 1.0
▲	◻	1.1 - 2.0
▲	◻	2.1 - 4.0
▲	◻	4.1 - 8.0
▲	◻	8.1 - 16.0
▲	◻	16.1 - 32.0

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URAN

THE AREA

SCALE 1: 250 000

PLATE II-B

URANIUM CONCENTRATIONS (ppm) IN SEDIMENTS
IN

AREA OF THE BAIRD MOUNTAINS QUADRANGLE
ALASKA

20 25 MILES

25 KILOMETERS

SEDIMENTS

QUADRANGLE,

3

159°00' 30' 158°

45'

30'

1911

1936

1910

1939

1938

1935

1911

1910

1912

1912

1937

1909

1913

1933

1923

PLATE III

30'

158°

157° 30'
65° 00'

45'

30'

1934

1939 1936

1935

1911

1910

1912

1937

1909

1913

2

SCALE 1: 250 000

PLATE III

NURE HYDROGEOCHEMICAL AND STREAM/LAKE
SAMPLE LOCATIONS IN

THE AREA OF THE AMBLER RIVER QUADRANGLE
ALASKA

PLATE III

ROGEOCHEMICAL AND STREAM/LAKE SEDIMENT
SAMPLE LOCATIONS IN
THE AMBLER RIVER QUADRANGLE (SW CORNER)
ALASKA

159° 00' 30' 158°

45'

30'

NATURAL LAKE OR POND WATER	SURFACE
▲	■
△	□
△	□
△	□
△	□
△	□
△	□
△	□

1

PLATE III-A

LEGEND

NATURAL LAKE OR POND WATER	SURFACE STREAM WATER	TOTAL URANIUM (ppb)
△	□	≤ 0.05
△	□	0.06 - 0.10
△	□	0.11 - 0.20
△	□	0.21 - 0.50
△	□	0.51 - 1.00
△	□	1.01 - 2.00
△	□	2.01 - 5.00
△	□	> 5.00

45'

30'

2

SCALE 1: 250 000

PLATE III-A

URANIUM CONCENTRATIONS (ppb) IN W

IN

THE AREA OF THE AMBLER RIVER QUADRANG
ALASKA

PLATE III-A

IIUM CONCENTRATIONS (ppb) IN WATERS

IN

IE AMBLER RIVER QUADRANGLE (SW CORNER

ALASKA

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159° 00'
68° 00'

30'

158°

45'

30'

LEGEND	
NATURAL LAKE OR POND WATER	SURFACE STREAM WATER

PLATE III-B

30'

158°

157° 30' 68° 00'

LEGEND

NATURAL LAKE OR POND WATER	SURFACE STREAM WATER	TOTAL URANIUM (ppm)
▲	□	≤ 0.5
△	□	0.6 - 1.0
△	□	1.1 - 2.0
△	□	2.1 - 4.0
△	□	4.1 - 8.0
△	□	8.1 - 16.0
△	□	16.1 - 32.0
△	□	> 32.0

45'

30'

2

SCALE 1: 250 000

PLATE III-B

URANIUM CONCENTRATIONS (ppm) IN SED
IN

THE AREA OF THE AMBLER RIVER QUADRANGLE
ALASKA

SCALE 1: 250 000

PLATE III-B

CONCENTRATIONS (ppm) IN SEDIMENTS
IN

AMBLER RIVER QUADRANGLE (SW CORNER),
ALASKA