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Informal Report

Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Release for the Cody NTMS Quadrangle, Wyoming, Including Concentrations of Forty-Two Additional Elements

University of California

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

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Issued: August 1980

Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Release for the Cody NTMS Quadrangle, Wyoming, Including Concentrations of Forty-Two Additional Elements

By

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CONTENTS

LIST OF ILLUSTRATIONS		v
SUMMARY		1
ACKNOWLEDGMENTS		2
APPENDIX I	Listings of Field Data and Elemental Concentrations for Samples from the Cody NTMS Quadrangle, Wyoming	3
I-A	Listings of Field Data and Uranium Concentrations for Water Samples from the Cody Quadrangle, Wyoming	3
I-B	Listings of Field Data and Elemental Concentrations for Sediment Samples from the Cody Quadrangle, Wyoming	17
APPENDIX II	Standard LASL HSSR Procedures and Codes	135
II-A	Summary of Standard LASL HSSR Field and Analytical Procedures	136
II-B	Explanation of Codes Used in Appendix I	140
II-C	Key to Sample Types Listed in Appendix I	145
REFERENCES CITED		147

LIST OF ILLUSTRATIONS

Plate No.

I. Sample location overlay for the Cody NTMS quadrangle, Wyoming. pocket

URANIUM HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE DATA RELEASE FOR THE CODY NTMS QUADRANGLE, WYOMING, INCLUDING CONCENTRATIONS OF FORTY-TWO ADDITIONAL ELEMENTS

by

Stephen L. Bolivar

SUMMARY

This report contains data for samples collected during a geochemical survey for uranium in the Cody National Topographic Map Series (NTMS) quadrangle, Wyoming, by the Los Alamos Scientific Laboratory (LASL) as part of the nationwide Hydrogeochemical and Stream Sediment Reconnaissance (HSSR). The LASL is responsible for conducting the HSSR primarily in the Rocky Mountain states of New Mexico, Colorado, Wyoming, and Montana and in Alaska. The HSSR program is part of the United States Department of Energy's (DOE) National Uranium Resource Evaluation (NURE), which is designed to provide an improved estimate of the availability and economics of nuclear fuel resources and to make available to industry information for use in the development and production of uranium resources. The HSSR data ultimately will be integrated with data from airborne radiometric surveys and geological investigations to complete the entire NURE program.

Totals of 627 water and 1482 sediment samples were collected from 1529 locations at a nominal density of one location per 10 km^2. Water samples were collected from streams, springs, and wells, and sediment samples were collected from streams and springs. Most samples were collected by two private contractors in the summers of 1976 and 1977. These samples were collected according to systematic and standardized procedures (Sharp and Aamodt, 1978). Samples from 193 locations (W01314 to W01506) were collected by US Geological Survey personnel in 1970 and 1971 from the North Absaroka Wilderness and vicinity (Nelson et al, 1980). The LASL obtained sample splits for these samples in 1978. All US Geological Survey samples are wet stream sediments sieved to -80 mesh, whereas LASL samples are sieved to -100 mesh. Because only limited sample splits were available, several samples were not analyzed for the full suite of elements; however, all were analyzed for uranium (Appendix I-B). Shannon (1980) and Maassen (1980) found that the uranium content of the -80 mesh and of the -100 mesh stream sediment samples obtained from nearby areas with similar lithologic units exposed are comparable. Differences in uranium concentrations for samples from the same area seem to result from a difference in lithology rather than sieve size.

Elemental concentrations, field measurements, weather, geologic, and geographic data for each sample location are listed for waters in Appendix I-A and for sediments in Appendix I-B. Uranium/thorium ratios for sediment samples are also included in Appendix I-B. The data presented in Appendix I are

also available on magnetic tape from GJOIS Project, UCC-ND Computer Applications Department, 4500 North Building, Oak Ridge National Laboratory, P. O. Box X, Oak Ridge, Tennessee 37830. Appendix II describes standard LASL HSSR field and analytical procedures and explains the codes used in Appendix I. A sample location overlay (1:250 000 scale) is included in the rear pocket (Plate I).

All elemental analyses were performed at the LASL. Water samples were initially analyzed for uranium by fluorometry. All water samples containing more than 40 parts per billion (ppb) uranium were reanalyzed by delayed-neutron counting (DNC).

All sediment samples were analyzed for uranium by DNC. Other elemental concentrations in sediments were determined by neutron activation analysis for 31 elements (aluminum, antimony, barium, calcium, cerium, cesium, chlorine, chromium, cobalt, dysprosium, europium, gold, hafnium, iron, lanthanum, lutetium, magnesium, manganese, potassium, rubidium, samarium, scandium, sodium, strontium, tantalum, terbium, thorium, titanium, vanadium, ytterbium, and zinc), by x-ray fluorescence for 9 elements (bismuth, cadmium, copper, lead, nickel, niobium, silver, tin, and tungsten), and by arc-source emission spectrography for lithium and beryllium. Analytical results for sediments are reported as parts per million (ppm).

Because this release is intended to make these data available to the DOE and the public as quickly as possible, no further discussion of the data is included.

ACKNOWLEDGMENTS

The support and assistance of the following LASL groups and individuals are gratefully acknowledged. Nearly all water sample analyses and the x-ray fluorescence and emission spectrometry of sediment samples were performed by the Analytical Chemistry Group, under the direction of Glenn R. Waterbury. The delayed-neutron counting and neutron activation analyses of the sediments were performed by the Research Reactor Group, directed by Merle E. Bunker. The Statistics Group, headed by Ray A. Waller, was responsible for the data management and computer graphics. Special thanks are due the following members of the Geosciences Division: Mary E. Luke, who digitized latitudes and longitudes for all sample location points; Nancy J. Eckhoff, who typed the report; and John A. Pasciewicz, who drafted the plate. Sincere appreciation is also expressed to the US Forest Service, National Park Service, and individual landowners who granted access to lands under their control so that the survey could be completed.

APPENDIX I

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

APPENDIX I-A

Listings of Field Data and Uranium Concentrations
for Water Samples from the Cody Quadrangle, Wyoming
(Pages 4 through 15)

(See Appendix II-B for Code to Listings)

APPENDIX I-A. Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (*) UNITS IN ppb
							DATE	HOUR																										
56-	44.3656-	108.0453-	2-	08-		0-W00001-	06/09/76-	13-	31-	17.5-	-	-	6.7-	900-	6-1-6-	-	-	-	-1-	-4-	3-	3-	1-	-1-	5-	6-	50-	40-					6.96
56-	44.3633-	108.0328-	2-	08-		0-W00020-	06/14/76-	11-	9-	11.5-	-	-	6.4-	1750-	11-1-6-	-	-	-	-	-4-	4-	1-	4-	-1-	4-	6-	52-	-					23.30*
56-	44.9472-	108.0797-	2-	07-		0-W00107-	08/05/76-	12-	24-	17.5-	-	-	7.6-	2400-	12-1-7-	4-	6-	3-	3-	1-	2-	2-	2-	5-	1-	-1-	-	-	-					8.43
56-	44.9342-	108.0864-	2-	06-		0-W00108-	08/05/76-	13-	26-	13.0-	-	-	6.6-	650-	11-1-7-	4-	4-	2-	-1-	-2-	3-	3-	1-	-1-	-	-	-	-					7.98
56-	44.9214-	108.0606-	2-	06-		0-W00109-	08/05/76-	14-	26-	12.5-	-	-	6.8-	700-	6-1-7-	4-	6-	2-	-1-	-2-	2-	3-	1-	-1-	-	-	-	-					7.73
56-	44.8903-	108.0225-	2-	06-		0-W00111-	08/05/76-	15-	26-	10.0-	-	-	7.0-	350-	8-1-7-	5-	6-	2-	-1-	-3-	2-	3-	1-	-1-	-	-	-	-					6.60
56-	44.9097-	108.0153-	2-	06-		0-W00112-	08/05/76-	15-	26-	12.0-	-	-	6.6-	300-	4-1-7-	5-	4-	2-	-1-	-3-	2-	3-	1-	-1-	-	-	-	-					6.36
56-	44.8636-	108.1136-	2-	06-		0-W00113-	08/05/76-	16-	26-	14.0-	-	-	6.8-	700-	11-1-7-	4-	6-	2-	-1-	-4-	3-	2-	2-	-1-	-	-	-	-					2.19
56-	44.6867-	108.6461-	2-	07-		0-W00118-	07/19/76-	12-	28-	20.0-	-	-	7.2-	400-	12-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					2.19
56-	44.7317-	108.6200-	2-	07-		0-W00119-	07/19/76-	12-	28-	18.0-	-	-	6.9-	460-	12-1-7-	4-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					2.80
56-	44.7122-	108.5644-	2-	07-		0-W00121-	07/19/76-	13-	29-	20.0-	-	-	6.6-	190-	12-1-7-	5-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					0.82
56-	44.6425-	108.5722-	2-	07-		0-W00140-	07/19/76-	18-	30-	22.0-	-	-	6.1-	250-	9-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					1.02
56-	44.6522-	108.5694-	2-	07-		0-W00141-	07/19/76-	18-	30-	20.0-	-	-	5.9-	240-	9-1-7-	4-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					0.58
56-	44.8733-	108.6556-	2-	07-		0-W00152-	07/20/76-	12-	30-	20.0-	-	-	6.8-	700-	12-1-7-	4-	7-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					4.38
56-	44.8839-	108.5494-	2-	07-		0-W00153-	07/20/76-	12-	30-	16.0-	-	-	7.4-	1200-	6-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					6.70
56-	44.8850-	108.5522-	2-	07-		0-W00154-	07/20/76-	12-	30-	22.0-	-	-	7.6-	1500-	12-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					14.10*
56-	44.9328-	108.5939-	2-	07-		0-W00156-	07/20/76-	14-	32-	17.0-	-	-	7.4-	600-	3-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					3.30
56-	44.8667-	108.7000-	2-	07-		0-W00163-	07/20/76-	16-	35-	17.0-	-	-	7.2-	3500-	6-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					4.02
56-	44.7850-	108.7400-	2-	07-		0-W00164-	07/20/76-	17-	35-	20.0-	-	-	7.4-	600-	9-1-7-	4-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					4.89
56-	44.7783-	108.6650-	2-	07-		0-W00165-	07/20/76-	18-	27-	23.0-	-	-	7.2-	700-	6-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					6.07
56-	44.7936-	108.6306-	2-	07-		0-W00166-	07/20/76-	18-	27-	22.0-	-	-	7.2-	250-	16-1-7-	6-	8-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					2.66
56-	44.7831-	108.5122-	2-	07-		0-W00167-	07/20/76-	19-	27-	22.0-	-	-	6.8-	600-	6-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					3.07
56-	44.7567-	108.5539-	2-	07-		0-W00168-	07/20/76-	19-	27-	19.0-	-	-	6.9-	500-	12-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					2.12
56-	44.7272-	108.6739-	2-	07-		0-W00169-	07/20/76-	18-	25-	21.0-	-	-	6.8-	600-	9-1-7-	5-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					3.02
56-	44.8194-	108.4678-	2-	07-		0-W00170-	07/23/76-	8-	26-	17.0-	-	-	6.9-	600-	16-1-7-	4-	6-	3-	3-	1-	-4-	3-	2-	1-	-1-	-	-	-	-					3.16
56-	44.7875-	108.4056-	2-	07-		0-W00171-	07/23/76-	9-	26-	18.0-	-	-	6.8-	270-	16-1-7-	5-	6-	3-	3-	1-	-4-	3-	2-	1-	-1-	-	-	-	-					1.42
56-	44.7958-	108.4317-	2-	07-		0-W00172-	07/23/76-	9-	26-	18.0-	-	-	6.6-	700-	6-1-7-	4-	6-	3-	3-	1-	-4-	3-	2-	1-	-1-	-	-	-	-					4.90
56-	44.7761-	108.4989-	2-	07-		0-W00173-	07/23/76-	9-	26-	17.0-	-	-	6.9-	400-	9-1-7-	4-	6-	3-	3-	1-	-4-	3-	2-	1-	-1-	-	-	-	-					1.93
56-	44.8133-	108.1872-	2-	07-		0-W00216-	07/24/76-	9-	27-	20.0-	-	-	6.8-	400-	16-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	1-	-1-	-	-	-	-					2.68
56-	44.8367-	108.2817-	2-	07-		0-W00218-	07/24/76-	9-	27-	21.0-	-	-	6.3-	300-	6-1-7-	5-	6-	3-	3-	1-	-3-	2-	2-	1-	-1-	-	-	-	-					1.46
56-	44.8378-	108.3194-	2-	07-		0-W00219-	07/24/76-	9-	27-	18.0-	-	-	7.2-	3400-	12-1-7-	5-	6-	3-	3-	1-	-4-	3-	2-	1-	-1-	-	-	-	-					36.50*
56-	44.8756-	108.3806-	2-	07-		0-W00223-	07/24/76-	10-	29-	20.0-	-	-	6.8-	800-	9-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	1-	-1-	-	-	-	-					8.32
56-	44.9356-	108.5078-	2-	07-		0-W00224-	07/24/76-	11-	35-	24.0-	-	-	6.6-	2200-	16-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	1-	-1-	-	-	-	-					19.50*
56-	44.9361-	108.5128-	2-	07-		0-W00225-	07/24/76-	11-	35-	27.0-	-	-	6.9-	2500-	16-1-7-	4-	6-	3-	3-	1-	-3-	2-	2-	1-	-1-	-	-	-	-					18.20*
56-	44.9656-	108.4622-	2-	07-		0-W00228-	07/24/76-	12-	36-	24.0-	-	-	7.2-	2300-	3-1-7-	5-	6-	3-	3-	2-	-3-	2-	2-	1-	-1-	-	-	-	-					4.40
56-	44.9733-	108.3361-	2-	08-		0-W00246-	07/31/76-	13-	34-	18.0-	-	-	7.4-	1200-	12-1-7-	-	-	-	-1-	-2-	3-	2-	2-	-1-	4-	-	40-	-					5.85
56-	44.9222-	108.1378-	2-	06-		0-W00250-	07/31/76-	15-	33-	13.0-	C-	-	7.3-	380-	6-1-7-	-	-	-2-	3-	1-	-3-	2-	3-	2-	-1-	-	-	-	-					0.76
56-	44.9353-	108.1383-	2-	06-		0-W00251-	07/31/76-	15-	32-	15.0-	C-	-	7.0-	900-	6-1-4-	-	-	-2-	-1-	-4-	3-	3-	2-	-1-	-	-	-	-					14.70*
56-	44.9525-	108.1569-	2-	06-		0-W00252-	07/31/76-	15-	33-	16.5-	C-	-	6.8-	1200-	6-1-4-	-	-	-2-	-1-	-4-	1-	3-	2-	-1-	-	-	-	-					16.40*
56-	44.9603-	108.1269-	2-	06-		0-W00253-	07/31/76-	16-	32-	14.0-	-	-	6.9-	900-	6-1-7-	4-	6-	2-	-1-	-4-	3-	2-	2-	-1-	-	-	-	-					7.19
56-	44.9764-	108.1681-	2-	06-		0-W00257-	07/31/76-	17-	30-	16.0-	-	-	6.9-	850-	4-1-7-	4-	4-	2-	-1-	1-	3-	2-	2-	4-	-1-	-	-	-	-					4.76
56-	44.9667-	108.1194-	2-	06-		0-W00258-	07/31/76-	18-	30-	14.0-	-	-	7.5-	1500-	6-1-7-	5-	4-	2-	-1-	-3-	2-	2-	3-	-1-	-	-	-	-					4.67
56-	44.8300-	108.1522-	2-	07-		0-W00261-	07/31/76-	12-	32-	24.0-	-	-	6.9-	360-	6-1-7-	5-	6-	3-	3-	1-	-3-	2-	2-	2-	-1-	-	-	-	-					1.44
56-	44.5142-	108.3106-	2-	08-		0-W00265-	07/29/76-	13-	26-	22.0-	-	-	6.6-	4300-	3-1-6-	-	-	-	-	-	-4-	3-	1-	3-	-1-	4-	8-	50-	35-					20.40*
56-	44.5058-	108.2911-	2-	08-		0-W00266-	07/29/76-	13-	26-	15.0-	-	-	6.6-	2500-	15-1-6-	-	-	-	-	-	-	-	-1-	3-	-1-	4-	12-	21-	17-					112.40*
56-	44.5050-	108.3719-	2-	08-		0-W00267-	07/29/76-	14-	21-	18.0-	-	-	6.5-	900-	3-1-6-	-	-	-	-	-	-4-	4-	1-	3-	-1-	4-	-	-	-					21.20*
56-	44.5061-	108.3919-	2-	08-		0-W00268-	07/29/76-	15-	24-	18.0-	-	-	6.5-	900-	1-1-6-	-	-	-	-	-	-4-	4-	1-	3-	-1-	4-	-	30-	15-					22.30*
56-	44.4033-	108.2756-	2-	08-		0-W00276-	07/30/76-	13-	25-	21.0-	-	-	6.6-	800-	1-1-6-	-	-	-	-	-	-4-	3-	1-	2-	-1-	5-	6-	65-	4-					8.55
56-	44.4322-	108.3689-	2-	08-		0-W00277-	07/30/76-	13-	25-	20.0-	-	-	6.3-	2800-	3-1-6-	-	-	-	-	-	-3-	2-	1-	2-	-1-	4-	-	-	-					3.10
56-	44.4178-	108.3361-	2-	08-		0-W00278-	07/30/76-	13-		15.0-	-	-	6.5-	4800-	3-1-6-	-	-	-	-	-	-4-	3-	1-	2-	-1-	4-	-	-	-					102.10*
56-	44.4172-	108.3089-	2-	08-		0-W00279-	07/30/76-	14-	28-	18.0-	-	-	6.3-	3900-	12-1-7-	-	-	-	-	-	-4-	2-	1-	2-	-1-	5-	8-	100-	-					2.00

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																													U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
56-44.3528-108.2622-2-08-						0-W00281-07/30/76-16-	32-28.0-		-	-	6.6-	1100-		3-1-6-	-	-	-	-	-4-	4-1-2-	-1-3-	-	-	-	C.10
56-44.3439-108.2747-2-07-						0-W00282-07/30/76-16-	32-25.0-		-	-	6.5-	600-		3-1-6-4-6-3-2-1-3-4-2-2-2-	-1-	-	-	-	3.58
56-44.3736-108.3828-2-08-						0-W00287-07/31/76-14-	28-27.0-		-	-	6.5-	2000-		3-1-6-	-	-	-	-	-4-	2-1-4-	-1-4-	-	-	-	0.28
56-44.6889-108.1150-2-06-						0-W00300-07/31/76-14-	33-18.0-		-	-	7.2-	600-		9-1-7-4-6-3-3-1-	-3-2-2-2-	-1-	-	-	-	0.80
56-44.6800-108.0956-2-07-						0-W00301-07/31/76-14-	33-22.0-		-	-	7.2-	1400-		6-1-7-5-6-3-3-1-	-3-2-2-2-	-1-	-	-	-	16.00*
56-44.7333-108.0067-2-07-						0-W00304-07/31/76-15-	30-19.0-		-	-	6.6-	240-		12-1-7-4-6-3-3-1-	-3-2-2-2-	-1-	-	-	-	0.24
56-44.7119-108.0517-2-07-						0-W00307-07/30/76-16-	28-18.0-		-	-	7.2-	230-		6-1-7-4-6-3-3-1-	-3-2-2-2-	-1-	-	-	-	0.24
56-44.8219-108.1228-2-07-						0-W00312-08/01/76-19-	24-17.0-		-	-	7.2-	350-		6-1-7-5-6-3-3-1-2-4-3-2-2-	-1-	-	-	-	1.64
56-44.8128-108.0950-2-06-						0-W00313-08/01/76-19-	24-21.0-		-	-	6.8-	600-		9-1-7-5-6-3-3-1-	-4-2-2-2-	-1-	-	-	-	3.15
56-44.8161-108.0644-2-06-						0-W00316-08/01/76-19-	24-15.0-		-	-	6.8-	440-		4-1-7-5-6-2-	-1-1-3-3-2-2-	-1-	-	-	-	0.93
56-44.7911-108.0147-2-07-						0-W00317-08/02/76-12-	16-15.0-		-	-	6.5-	460-		6-1-7-5-6-3-3-1-1-3-3-3-4-	-1-	-	-	-	0.72
56-44.7950-108.0319-2-06-						0-W00318-08/02/76-12-	16-19.0-		-	-	6.8-	340-		3-1-7-5-6-3-3-4-	-3-3-3-4-	-1-	-	-	-	0.94
56-44.7267-108.8667-2-07-						0-W00336-08/05/76-12-	24-17.0-		-	-	6.5-	310-		6-1-7-3-6-3-3-1-	-3-2-2-1-	-1-	-	-	-	2.35
56-44.7278-108.8644-2-07-						0-W00337-08/06/76-12-	25-17.0-		-	-	6.6-	320-		6-1-7-4-8-3-3-1-	-3-2-2-1-	-1-	-	-	-	3.08
56-44.7439-108.9328-2-07-						0-W00338-08/06/76-12-	25-16.0-		-	-	6.9-	260-		9-1-7-4-6-3-3-1-	-4-2-2-1-	-1-	-	-	-	2.24
56-44.7114-108.9689-2-07-						0-W00339-08/06/76-12-	25-14.0-		-	-	5.8-	70-		9-1-7-4-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	0.20
56-44.7161-108.9261-2-07-						0-W00340-08/06/76-13-	25-19.0-		-	-	6.6-	500-		6-1-7-4-6-3-3-1-	-4-3-2-1-	-1-	-	-	-	5.94
56-44.6956-108.9128-2-07-						0-W00341-08/06/76-13-	25-20.0-		-	-	6.0-	330-		6-1-7-4-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	1.09
56-44.6906-108.9278-2-07-						0-W00342-08/06/76-13-	25-21.0-		-	-	6.0-	430-		6-1-7-4-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	1.31
56-44.6894-108.9944-2-08-						0-W00343-08/05/76-13-	25-16.0-		-	-	6.6-	600-		6-1-7-	-	-3-3-1-	-4-3-3-1-	-1-3-	-	-	-	3.65
56-44.7011-108.9794-2-07-						0-W00344-08/05/76-13-	25-15.0-		-	-	6.0-	300-		9-1-7-4-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	0.68
56-44.6772-108.9511-2-07-						0-W00346-08/05/76-14-	30-19.0-		-	-	6.9-	1000-		6-1-7-4-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	8.15
56-44.6611-108.9522-2-07-						0-W00347-08/05/76-14-	30-18.0-		-	-	6.3-	160-		3-1-7-4-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	0.10
56-44.6506-108.9739-2-07-						0-W00348-08/05/76-14-	30-21.0-		-	-	6.6-	490-		6-1-7-4-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	2.25
56-44.5661-108.9944-2-07-						0-W00351-08/05/76-14-	30-22.0-		-	-	6.9-	100-		9-1-7-4-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	0.16
56-44.5283-108.9856-2-07-						0-W00352-08/05/76-15-	33-20.0-		-	-	6.6-	800-		12-1-7-4-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	16.30*
56-44.5289-108.9839-2-07-						0-W00353-08/05/76-15-	33-23.0-		-	-	6.3-	360-		9-1-7-4-6-3-3-1-	-4-3-3-1-	-1-	-	-	-	4.02
56-44.5500-108.9656-2-07-						0-W00360-08/05/76-17-	30-22.0-		-	-	6.3-	260-		9-1-7-4-7-3-3-1-	-3-2-2-1-	-1-	-	-	-	2.12
56-44.7267-108.7750-2-08-						0-W00367-08/06/76- 8-	22-15.0-		-	-	6.9-	550-		9-1-7-	-	-3-3-1-	-4-3-3-1-	-1-3-	-	-	-	8.48
56-44.7256-108.7694-2-08-						0-W00368-08/06/76- 8-	22-14.0-		-	-	6.6-	600-		12-1-7-	-	-3-3-1-	-4-3-3-1-	-1-3-	-	-	-	8.95
56-44.7089-108.7600-2-08-						0-W00371-08/06/76- 8-	23-18.0-		-	-	6.9-	700-		3-1-7-	-	-3-3-1-	-4-3-3-1-	-1-3-	-	-	-	6.40
56-44.6889-108.7594-2-08-						0-W00372-08/06/76- 9-	25-18.0-		-	-	6.9-	700-		6-1-7-	-	-3-3-1-	-4-3-3-1-	-1-5-	-	14-	-	5.67
56-44.6881-108.7894-2-08-						0-W00373-08/06/76- 9-	25-13.0-		-	-	6.9-	700-		8-1-7-	-	-3-3-1-	-4-3-3-1-	-1-3-	-	-	-	8.70
56-44.4669-108.5317-2-07-						0-W00379-07/15/76-12-	27-17.5-		-	-	6.8-	22000-		10-1-4-4-6-2-2-1-	-4-2-2-3-	-1-	-	-	-	20.40*
56-44.3117-108.7258-2-08-						0-W00380-08/16/76-13-	23-17.0-	C-	-	6.6-	850-		11-1-4-	-	-	-	-	-	-4-	3-2-1-	-1-5-	6-	100-	-	0.59
56-44.3397-108.6608-2-08-						0-W00404-08/16/76-17-	32-20.0-	C-	-	6.8-	1650-		6-1-4-	-	-	-	-1-	-4-	3-1-1-	-1-	-	-	-	0.34
56-44.3731-108.6403-2-08-						0-W00405-08/16/76-18-	27-14.0-	C-	-	6.5-	1600-		15-1-4-	-	-	-	-1-	-4-	3-3-1-	-	-	-	-	0.74
56-44.3997-108.5050-2-08-						0-W00407-08/16/76-19-	25-10.5-	-	-	6.6-	1150-		10-1-4-	-	-	-	-1-	-4-	4-3-1-	-1-	4-	7-	-	-	4.14
56-44.1214-108.8986-2-08-						0-W00440-08/24/76-10-	22-14.0-	C-	-	6.9-	1900-		16-1-7-	-	-3-3-1-	-4-2-3-1-	-1-9-	-	-	-	2.18
56-44.0931-108.9014-2-07-						0-W00443-08/24/76-11-	24-14.0-	-	-	6.9-	2000-		12-1-7-5-6-3-3-1-2-4-2-3-1-	-1-	-	-	-	4.01
56-44.3986-108.9972-2-07-						0-W00457-08/18/76-12-	25-19.0-	-	-	6.9-	1200-		9-1-7-4-6-2-3-1-2-4-3-2-2-	-1-	-	-	-	8.75
56-44.5406-108.7664-2-06-						0-W00464-08/18/76-14-	27-12.0-	-	-	6.6-	400-		9-1-7-4-6-	-	-	-2-3-3-3-4-	-1-	-	-	-	2.78
56-44.4722-108.9875-2-07-						0-W00468-08/18/76-15-	20-16.0-	-	-	6.6-	410-		11-1-7-4-6-3-3-1-2-3-3-2-4-	-1-	-	-	-	3.58
56-44.3667-108.7958-2-07-						0-W00477-08/18/76-17-	25-20.0-	-	-	7.3-	35000-		11-1-7-4-6-2-2-1-2-3-3-2-3-	-1-	-	-	-	5.30*
56-44.1181-108.9528-2-07-						0-W00482-08/24/76-11-	24-15.0-	-	-	6.6-	1200-		12-1-7-	-	-3-3-1-2-4-3-3-1-	-1-	-	-	-	5.14
56-44.0403-108.9708-2-07-						0-W00483-08/24/76-12-	26-20.0-	-	-	6.0-	160-		12-1-7-4-6-3-3-1-2-4-3-3-1-	-1-	-	-	-	0.33
56-44.0111-108.8819-2-07-						0-W00485-08/24/76-14-	30-18.0-	-	-	6.9-	600-		11-1-7-5-6-3-3-1-2-4-3-3-1-	-1-	-	-	-	1.29
56-44.1597-108.8722-2-08-						0-W00508-08/25/76- 9-	-18.0-	-	-	7.5-	1400-		16-1-7-	-	-	-	-1-	-2-2-1-1-	-1-	-	-	-	0.10
56-44.0233-108.5900-2-08-						0-W00547-08/22/76-16-	36-17.0-	-	-	7.5-	1500-		14-1-7-	-	-	-	-1-	-2-2-1-1-	-1-8-	-	-	-	1.07
56-44.3756-108.2000-2-07-						0-W00612-10/13/76-10-	25-14.0-	-	-	6.3-	600-		6-1-7-5-6-3-3-1-3-3-2-3-1-	-1-	-	-	-	5.70
56-44.3606-108.2450-2-08-						0-W00613-10/13/76-11-	30-15.0-	-	-	6.9-	1000-		9-1-7-	-	-3-3-1-	-3-2-3-1-	-1-3-	-160-	-	0.10

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (ϕ) UNITS IN ppb
56-	44.3539-	108.2633-	2-	08-		0-W00614-	10/13/76-	11-	30-	17.0-	-	-	6.9-	1200-	15-	1-	7-	-	-	3-	3-	1-	-	3-	2-	3-	1-	-	1-	3-	-	150-	100-	1.35
56-	44.9461-	109.7736-	2-	07-		0-W00631-	05/26/77-	12-	12-	8.5-	-	-	7.6-	18-	9-	3-	7-	4-	6-	4-	3-	1-	2-	1-	3-	3-	2-	-	1-	-	-	-	-	0.19
56-	44.9900-	109.8564-	2-	07-		0-W00632-	05/26/77-	13-	11-	6.0-	-	-	7.5-	130-	2-	1-	1-	4-	6-	3-	2-	2-	2-	1-	3-	4-	2-	-	1-	-	-	-	-	0.01
56-	44.9928-	109.8508-	2-	07-		0-W00633-	05/26/77-	14-	16-	4.5-	-	-	7.1-	37-	13-	1-	7-	4-	6-	3-	3-	1-	2-	1-	4-	3-	2-	-	1-	-	-	-	-	0.21
56-	44.9792-	109.8447-	2-	07-		0-W00634-	05/26/77-	14-	16-	7.0-	-	-	8.0-	90-	9-	1-	1-	4-	6-	3-	2-	1-	2-	1-	4-	4-	2-	-	1-	-	-	-	-	0.22
56-	44.9869-	109.8386-	2-	07-		0-W00635-	05/26/77-	15-	12-	5.0-	-	-	7.6-	41-	13-	3-	7-	4-	6-	4-	3-	1-	2-	1-	4-	3-	2-	-	1-	-	-	-	-	0.25
56-	44.9681-	109.8250-	2-	07-		0-W00636-	05/26/77-	15-	13-	6.0-	-	-	7.9-	55-	6-	3-	7-	4-	6-	3-	3-	1-	2-	1-	3-	2-	2-	-	1-	-	-	-	-	0.16
56-	44.9708-	109.8181-	2-	07-		0-W00637-	05/26/77-	15-	13-	6.5-	-	-	7.9-	44-	4-	3-	7-	4-	6-	3-	3-	1-	2-	1-	3-	3-	2-	-	1-	-	-	-	-	0.01
56-	44.9506-	109.8000-	2-	07-		0-W00638-	05/26/77-	16-	13-	7.5-	-	-	7.2-	105-	11-	3-	7-	4-	6-	3-	2-	2-	2-	1-	4-	2-	2-	-	1-	-	-	-	-	0.32
56-	44.9350-	109.7431-	2-	07-		0-W00640-	05/26/77-	17-	10-	8.0-	C-	-	7.1-	27-	6-	3-	2-	-	-	4-	3-	1-	2-	1-	3-	5-	2-	-	1-	-	-	-	-	0.18
56-	44.9414-	109.5169-	2-	07-		0-W00641-	05/27/77-	11-	6-	1.0-	C-	-	7.4-	15-	9-	3-	1-	-	-	3-	3-	1-	2-	1-	2-	3-	5-	-	1-	-	-	-	-	0.01
56-	44.9417-	109.5428-	2-	07-		0-W00642-	05/27/77-	11-	10-	1.0-	-	-	7.4-	15-	13-	3-	1-	-	-	3-	3-	1-	2-	1-	2-	3-	5-	-	1-	-	-	-	-	0.02
56-	44.9436-	109.5811-	2-	07-		0-W00643-	05/27/77-	12-	4-	3.0-	-	-	7.6-	39-	18-	3-	2-	4-	6-	3-	2-	1-	2-	1-	4-	4-	2-	-	1-	-	-	-	-	0.01
56-	44.9458-	109.5811-	2-	07-		0-W00644-	05/27/77-	13-	7-	3.0-	-	-	6.9-	17-	22-	3-	2-	4-	6-	3-	2-	1-	2-	1-	3-	4-	2-	-	1-	-	-	-	-	0.20
56-	44.9381-	109.5997-	2-	07-		0-W00645-	05/27/77-	13-	6-	2.5-	-	-	7.4-	22-	9-	3-	4-	5-	6-	3-	3-	1-	2-	1-	3-	5-	2-	-	1-	-	-	-	-	0.02
56-	44.9406-	109.6164-	2-	07-		0-W00646-	05/27/77-	14-	6-	3.0-	-	-	7.6-	200-	15-	3-	7-	4-	6-	3-	3-	1-	2-	1-	4-	2-	2-	-	1-	-	-	-	-	0.17
56-	44.9342-	109.6506-	2-	07-		0-W00647-	05/27/77-	14-	8-	4.0-	-	-	7.4-	90-	11-	3-	1-	5-	6-	4-	3-	1-	2-	1-	4-	3-	2-	-	1-	-	-	-	-	0.18
56-	44.9414-	109.7100-	2-	07-		0-W00648-	05/27/77-	15-	12-	11.0-	C-	-	7.3-	80-	9-	4-	9-	5-	6-	2-	3-	1-	3-	6-	3-	1-	2-	-	1-	-	-	-	-	0.15
56-	44.9417-	109.7053-	2-	07-		0-W00649-	05/27/77-	15-	10-	7.0-	C-	-	7.6-	13-	6-	4-	9-	4-	6-	4-	3-	1-	2-	1-	4-	4-	2-	-	1-	-	-	-	-	0.15
56-	44.9225-	109.7069-	2-	07-		0-W00650-	05/27/77-	16-	11-	7.0-	C-	-	6.5-	14-	-	3-	9-	4-	6-	4-	3-	1-	2-	1-	4-	3-	2-	-	1-	-	-	-	-	0.42
56-	44.9025-	109.6711-	2-	07-		0-W00651-	05/27/77-	16-	10-	5.5-	-	-	7.2-	90-	13-	3-	4-	4-	6-	4-	3-	1-	2-	1-	3-	4-	2-	-	1-	-	-	-	-	0.47
56-	44.8753-	109.6375-	2-	07-		0-W00652-	05/27/77-	17-	8-	8.0-	C-	-	7.6-	270-	9-	4-	9-	5-	6-	2-	3-	1-	3-	3-	2-	2-	2-	-	3-	-	-	-	-	0.71
56-	44.9056-	109.6281-	2-	07-		0-W00653-	05/28/77-	11-	8-	3.0-	C-	-	6.8-	36-	4-	4-	9-	4-	6-	4-	3-	1-	2-	1-	4-	2-	2-	-	1-	-	-	-	-	0.41
56-	44.8831-	109.6697-	2-	07-		0-W00654-	05/28/77-	12-	10-	5.5-	C-	-	7.7-	190-	9-	4-	9-	4-	6-	3-	2-	1-	2-	1-	3-	3-	2-	-	1-	-	-	-	-	0.91
56-	44.8375-	109.6364-	2-	07-		0-W00655-	05/28/77-	15-	9-	10.0-	C-	-	7.7-	210-	6-	4-	9-	4-	6-	2-	2-	1-	2-	1-	2-	2-	2-	-	1-	-	-	-	-	0.18
56-	44.8322-	109.6228-	2-	07-		0-W00656-	05/28/77-	16-	12-	7.0-	C-	-	7.6-	200-	11-	4-	9-	4-	6-	2-	2-	1-	3-	4-	3-	2-	2-	-	1-	-	-	-	-	0.01
56-	44.8328-	109.6139-	2-	07-		0-W00657-	05/28/77-	16-	9-	5.0-	C-	-	7.7-	360-	11-	4-	9-	4-	6-	2-	2-	1-	2-	1-	3-	3-	2-	-	1-	-	-	-	-	0.53
56-	44.8433-	109.5581-	2-	07-		0-W00658-	05/28/77-	16-	7-	3.5-	-	-	7.5-	285-	11-	3-	7-	4-	6-	3-	2-	1-	2-	1-	4-	3-	2-	-	1-	-	-	-	-	0.05
56-	44.8164-	109.6606-	2-	07-		0-W00660-	05/30/77-	11-	11-	2.0-	C-	-	-	70-	13-	4-	9-	4-	6-	3-	2-	1-	2-	1-	4-	4-	2-	-	1-	-	-	-	-	0.01
56-	44.8036-	109.6583-	2-	07-		0-W00661-	05/30/77-	11-	8-	3.0-	C-	-	7.2-	100-	2-	4-	9-	5-	6-	3-	2-	1-	2-	1-	4-	3-	2-	-	1-	-	-	-	-	0.01
56-	44.8028-	109.6533-	2-	07-		0-W00662-	05/30/77-	11-	4-	3.0-	C-	-	7.4-	115-	9-	4-	9-	4-	6-	3-	2-	1-	2-	1-	4-	4-	2-	-	1-	-	-	-	-	0.01
56-	44.8142-	109.6575-	2-	07-		0-W00663-	05/30/77-	12-	8-	3.0-	-	-	7.5-	125-	4-	3-	4-	4-	6-	3-	2-	1-	2-	1-	4-	3-	2-	-	1-	-	-	-	-	0.01
56-	44.8350-	109.6881-	2-	07-		0-W00664-	05/30/77-	13-	14-	8.0-	-	-	7.0-	80-	15-	3-	7-	4-	6-	4-	3-	1-	2-	1-	4-	3-	2-	-	1-	-	-	-	-	0.22
56-	44.8278-	109.5506-	2-	07-		0-W00665-	05/30/77-	14-	11-	5.0-	-	-	7.8-	270-	9-	1-	6-	4-	6-	4-	3-	3-	1-	2-	1-	4-	4-	2-	-	1-	-	-	-	-	0.09
56-	44.7481-	109.5225-	2-	06-		0-W00674-	05/31/77-	15-	22-	20.0-	C-	-	7.1-	430-	2-	4-	-	-	-	2-	2-	1-	3-	4-	3-	3-	1-	-	1-	-	-	-	-	0.31
56-	44.7169-	109.5978-	2-	07-		0-W00675-	05/31/77-	15-	19-	17.0-	-	-	6.6-	110-	6-	1-	1-	4-	6-	2-	2-	1-	2-	1-	2-	4-	1-	-	1-	-	-	-	-	0.15
56-	44.7194-	109.6206-	2-	07-		0-W00676-	05/31/77-	16-	28-	19.0-	-	-	6.6-	80-	6-	1-	1-	4-	6-	3-	2-	1-	2-	1-	3-	3-	2-	-	1-	-	-	-	-	0.01
56-	44.7219-	109.6206-	2-	07-		0-W00677-	05/31/77-	16-	20-	17.0-	-	-	6.5-	80-	4-	1-	1-	4-	6-	3-	2-	2-	2-	1-	3-	3-	2-	-	1-	-	-	-	-	0.44
56-	44.7053-	109.6097-	2-	07-		0-W00678-	05/31/77-	17-	18-	14.0-	-	-	6.8-	120-	4-	3-	7-	4-	6-	3-	3-	2-	1-	2-	1-	3-	4-	2-	-	1-	-	-	-	-	0.35
56-	44.6817-	109.6475-	2-	07-		0-W00679-	05/31/77-	17-	20-	10.0-	-	-	6.7-	120-	2-	3-	7-	4-	6-	3-	2-	1-	2-	1-	3-	2-	2-	-	1-	-	-	-	-	0.60
56-	44.6742-	109.6761-	2-	07-		0-W00680-	05/31/77-	18-	13-	10.5-	-	-	6.4-	70-	11-	3-	7-	4-	6-	3-	2-	2-	2-	1-	4-	2-	2-	-	1-	-	-	-	-	0.25
56-	44.1956-	109.3575-	2-	07-		0-W00681-	05/26/77-	11-	5-	2.5-	C-	-	8.2-	42-	6-	3-	7-	1-	7-	4-	2-	1-	2-	1-	2-	5-	3-	-	1-	-	-	-	-	0.44
56-	44.1975-	109.3544-	2-	07-		0-W00682-	05/26/77-	11-	5-	1.5-	C-	-	8.4-	51-	11-	3-	7-	1-	7-	4-	2-	1-	2-	1-	2-	5-	3-	-	1-	-	-	-	-	0.27
56-	44.1803-	109.3414-	2-	07-		0-W00683-	05/26/77-	12-	9-	3.0-	-	-	8.6-	54-	11-	3-	7-	1-	7-	4-	2-	1-	2-	1-	3-	4-	2-	-	1-	-	-	-	-	0.37
56-	44.1836-	109.3353-	2-	07-		0-W00684-	05/26/77-	13-	3-	6.0-	-	-	6.2-	78-	15-	4-	-	1-	7-	3-	3-	1-	2-	2-	2-	4-	2-	-	1-	-	-	-	-	0.17
56-	44.1958-	109.3092-	2-	07-		0-W00685-	05/26/77-	13-	10-	3.5-	-	-	6.6-	62-	2-	1-	6-	1-	7-	4-	2-	1-	2-	1-	2-	4-	2-	-	1-	-	-	-	-	0.01
56-	44.1972-	109.3064-	2-	07-		0-W00686-	05/26/77-	13-	10-	6.0-	-	-	7.0-	79-	11-	1-	6-	1-	7-	4-	2-	1-	2-	1-	2-	4-	2-	-	1-	-	-	-	-	0.18
56-	44.1717-	109.3042-	2-	07-		0-W00687-	05/26/77-	14-	12-	9.5-	-	-	6.6-	99-	6-	4-	-	6-	6-	2-	2-	1-	2-	4-	4-	3-	2-	-	1-	-	-	-	-	0.18
56-	44.2011-	109.2756-	2-	07-		0-W00688-	05/26/77-	15-	6-	2.0-	-	-	7.0-	50-	20-	1-	1-	2-	7-	3-	2-	1-	2-	4-	3-	4-	5-	-	1-	-	-	-	-	0.20
56-	44.1583-	109.2700-	2-	07-		0-W00689-	05/26/77-	15-	14-	9.0-	-	-	6.8-	80-	6-	1-	7-	1-	7-	4-	2-	1-	2-	2-	2-	3-	2-	-	1-	-	-	-	-	0.15
56-	44.1458-	109.2161-	2-	07-		0-W00693-	05/26/77-	17-	14-	15.0-	C-	-	7.0-	111-	18-	4-	-	5-	6-	2-	3-	1-	2-	4-	4-	3-	3-	-	3-	-	-	-	-	0.23

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (##) UNITS IN ppb
56-44.1144-109.2714-2-07-						0-W00698-05/27/77-10-	10-	6.5-C-	-		8.6-	800-	9-4-	-5-6-2-3-1-2-4-3-3-3-	-3-	-	-	-	-	4.46												
56-44.0969-109.3025-2-07-						0-W00699-05/27/77-11-	7-	3.5-C-	-		7.2-	150-	13-4-	-3-6-3-3-1-2-2-3-4-2-	-3-	-	-	-	-	0.57												
56-44.1089-109.3511-2-07-						0-W00700-05/27/77-11-	13-	5.5-C-	-		6.8-	110-	9-1-6-4-6-3-3-1-2-2-3-3-2-		-3-	-	-	-	-	0.26												
56-44.1256-109.3392-2-07-						0-W00701-05/27/77-14-	12-	10.0-	-		7.0-	80-	13-4-	-4-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-	0.21												
56-44.1253-109.2967-2-07-						0-W00702-05/27/77-15-	13-	14.5-	-		8.8-	1000-	13-4-	-4-6-3-3-2-2-4-3-3-2-	-3-	-	-	-	-	7.22												
56-44.0919-109.2375-2-07-						0-W00703-05/27/77-15-	14-	16.5-C-	-		7.2-	180-	4-4-	-3-6-3-3-1-2-4-3-3-2-	-4-	-	-	-	-	0.22												
56-44.0939-109.2214-2-07-						0-W00704-05/27/77-16-	14-	9.5-C-	-		7.6-	430-	13-4-	-4-6-3-3-1-2-2-3-4-2-	-4-	-	-	-	-	1.32												
56-44.1158-109.2181-2-07-						0-W00705-05/27/77-16-	15-	10.5-	-		7.2-	135-	22-4-	-4-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-	0.35												
56-44.0597-109.2419-2-07-						0-W00706-05/27/77-17-	11-	9.5-C-	-		7.2-	170-	9-1-4-4-4-3-3-1-2-2-3-5-2-		-3-	-	-	-	-	0.25												
56-44.0811-109.1794-2-07-						0-W00707-05/27/77-17-	14-	10.5-	-		7.4-	120-	4-4-	-4-6-3-3-2-2-3-3-3-2-	-3-	-	-	-	-	0.29												
56-44.0939-109.1433-2-07-						0-W00708-05/27/77-18-	15-	11.5-	-		6.8-	500-	13-4-	-6-6-2-2-1-2-4-4-3-2-	-3-	-	-	-	-	1.74												
56-44.0214-109.1842-2-07-						0-W00709-05/28/77-10-	7-	0.5-	-		7.2-	130-	22-4-	-3-6-4-3-2-2-1-3-3-1-	-1-	-	-	-	-	0.26												
56-44.0231-109.1861-2-07-						0-W00710-05/28/77-10-	8-	3.0-	-		7.0-	140-	9-1-4-3-6-3-3-1-2-1-3-4-1-		-1-	-	-	-	-	0.18												
56-44.0350-109.1778-2-07-						0-W00711-05/28/77-11-	5-	4.5-C-	-		5.7-	150-	18-4-	-4-6-3-3-1-2-1-3-3-1-	-3-	-	-	-	-	0.01												
56-44.0461-109.1786-2-07-						0-W00712-05/28/77-11-	10-	6.0-C-	-		6.3-	450-	18-4-	-5-6-2-3-1-2-3-3-2-1-	-3-	-	-	-	-	0.43												
56-44.0536-109.1808-2-07-						0-W00713-05/28/77-11-	9-	4.5-C-	-		5.7-	260-	18-1-6-5-6-3-3-2-2-2-3-2-1-		-3-	-	-	-	-	0.21												
56-44.0522-109.1119-2-07-						0-W00715-05/28/77-12-	12-	10.0-C-	-		6.3-	500-	13-4-	-3-4-2-3-1-2-4-4-2-2-	-3-	-	-	-	-	1.77												
56-44.0789-109.1350-2-07-						0-W00718-05/28/77-13-	10-	8.5-C-	-		6.3-	650-	9-4-	-3-7-2-3-1-2-2-2-3-2-	-3-	-	-	-	-	0.96												
56-44.0808-109.1428-2-07-						0-W00719-05/28/77-13-	12-	12.0-C-	-		5.7-	180-	13-4-	-4-6-4-3-1-2-3-3-3-2-	-3-	-	-	-	-	0.06												
56-44.1142-109.0625-2-07-						0-W00720-05/28/77-13-	9-	17.5-C-	-		7.4-	50000-	4-4-	-3-6-2-2-1-2-4-2-3-2-	-4-	-	-	-	-	25.75												
56-44.1581-109.0633-2-07-						0-W00721-05/28/77-14-	10-	14.5-C-	-		7.4-	2150-	9-4-	-5-6-2-3-1-2-4-4-3-2-	-4-	-	-	-	-	9.98												
56-44.0714-109.0078-2-07-						0-W00723-05/28/77-15-	17-	16.5-C-	-		6.0-	900-	13-1-4-4-4-3-3-1-2-4-3-3-2-		-3-	-	-	-	-	0.47												
56-44.1703-109.1006-2-07-						0-W00725-05/30/77-10-	14-	8.5-C-	-		9.4-	2800-	18-4-	-4-6-3-3-1-2-4-3-2-2-	-4-	-	-	-	-	17.48												
56-44.1700-109.1094-2-07-						0-W00726-05/30/77-10-	14-	11.5-C-	-		7.8-	1700-	9-4-	-4-6-2-3-1-2-4-3-2-2-	-4-	-	-	-	-	5.14												
56-44.1700-109.0231-2-07-						0-W00727-05/30/77-12-	12-	9.0-C-	-		8.2-	7250-	9-4-	-4-6-2-3-1-2-4-4-3-2-	-3-	-	-	-	-	0.65												
56-44.9164-109.1361-2-07-						0-W00762-05/27/77-15-	19-	19.5-	-		6.1-	650-	2-1-1-6-7-2-2-2-2-2-3-1-3-		-1-	-	-	-	-	0.28												
56-44.8983-109.1425-2-07-						0-W00763-05/27/77-16-	20-	15.5-	-		5.9-	550-	8-1-1-5-6-2-3-2-3-4-3-1-2-		-1-	-	-	-	-	0.18												
56-44.8944-109.1808-2-07-						0-W00764-05/27/77-17-	20-	15.0-	-		5.8-	500-	10-1-1-5-6-2-3-2-3-4-3-1-2-		-1-	-	-	-	-	0.30												
56-44.8950-109.2089-2-07-						0-W00765-05/27/77-17-	20-	15.5-	-		5.9-	600-	6-1-1-5-6-2-3-2-3-4-3-1-2-		-1-	-	-	-	-	0.45												
56-44.8303-109.3461-2-07-						0-W00766-05/28/77-10-	11-	8.0-	-		6.2-	750-	4-2-4-4-4-4-3-3-1-1-3-4-5-2-		-1-	-	-	-	-	7.86												
56-44.8394-109.3367-2-07-						0-W00767-05/28/77-10-	11-	7.5-	-		6.0-	700-	4-2-4-4-4-4-3-3-1-1-3-4-5-2-		-1-	-	-	-	-	0.58												
56-44.9022-109.3236-2-07-						0-W00769-05/28/77-13-	12-	7.5-	-		5.8-	310-	8-1-4-4-4-4-4-4-1-2-2-4-5-3-		-1-	-	-	-	-	0.36												
56-44.9053-109.2161-2-07-						0-W00773-05/28/77-15-	18-	10.5-	-		6.5-	140-	6-1-4-4-4-3-3-1-2-2-3-1-2-		-1-	-	-	-	-	0.68												
56-44.9542-109.3144-2-07-						0-W00775-05/28/77-15-	18-	9.0-	-		5.7-	60-	3-1-4-4-4-4-3-3-1-2-2-3-5-2-		-1-	-	-	-	-	0.91												
56-44.9383-109.3069-2-07-						0-W00776-05/28/77-16-	18-	8.5-	-		-	-	3-1-4-4-4-4-3-3-1-2-2-3-5-2-		-1-	-	-	-	-	0.72												
56-44.9350-109.2639-2-07-						0-W00777-05/28/77-16-	18-	9.5-	-		-	-	4-1-4-4-4-4-3-3-1-2-2-3-5-2-		-1-	-	-	-	-	0.83												
56-44.9281-109.2419-2-07-						0-W00779-05/28/77-17-	19-	10.5-	-		-	-	4-1-4-4-4-4-3-3-1-2-2-3-5-2-		-1-	-	-	-	-	0.87												
56-44.9919-109.2636-2-07-						0-W00784-05/28/77-18-	15-	10.0-	-		5.5-	35-	8-1-4-4-4-4-3-3-1-2-2-3-5-2-		-1-	-	-	-	-	0.64												
56-44.9925-109.2594-2-07-						0-W00785-05/28/77-18-	15-	10.5-	-		5.7-	36-	12-1-4-4-4-4-3-3-1-2-2-3-5-2-		-1-	-	-	-	-	0.54												
56-44.7542-109.2758-2-07-						0-W00790-05/30/77-10-	13-	9.0-	-		6.2-	550-	6-1-1-4-1-3-3-1-2-4-3-5-2-		-1-	-	-	-	-	5.05												
56-44.7556-109.2800-2-07-						0-W00791-05/30/77-10-	13-	8.5-	-		6.0-	450-	4-1-1-4-1-3-3-1-2-4-3-5-2-		-1-	-	-	-	-	1.81												
56-44.7844-109.2344-2-07-						0-W00792-05/30/77-11-	14-	9.0-	-		6.5-	500-	4-1-1-4-1-3-3-1-2-3-2-4-2-		-1-	-	-	-	-	2.09												
56-44.8142-109.4581-2-06-						0-W00801-05/30/77-15-	13-	4.0-	-		6.3-	410-	2-1-1-5-1-2-2-1-1-4-3-5-2-		-1-	-	-	-	-	0.17												
56-44.7967-109.4467-2-07-						0-W00803-05/30/77-16-	13-	7.5-	-		6.3-	310-	4-1-1-4-1-3-3-1-1-2-3-5-2-		-	-	-	-	-	0.31												
56-44.7664-109.4808-2-07-						0-W00805-05/30/77-17-	15-	8.0-	-		6.8-	510-	5-1-1-4-1-	- - -	-2-4-5-2-	-1-	-	-	-	0.51												
56-44.7522-109.4456-2-07-						0-W00807-05/30/77-17-	15-	12.0-	-		6.5-	550-	2-1-1-4-1-3-3-1-1-2-4-5-2-		-1-	-	-	-	-	0.67												
56-44.7522-109.4192-2-07-						0-W00808-05/30/77-18-	15-	10.0-	-		6.3-	320-	3-1-1-4-1-3-3-1-1-2-4-5-2-		-1-	-	-	-	-	0.32												
56-44.7411-109.3239-2-06-						0-W00810-05/31/77-10-	15-	12.0-	-		6.5-	1400-	4-1-4-4-4-2-3-2-1-1-4-5-1-		-1-	-	-	-	-	3.18												
56-44.7186-109.3583-2-06-						0-W00811-05/31/77-11-	16-	11.5-	-		6.3-	1250-	4-1-4-4-4-2-3-2-1-1-4-5-1-		-1-	-	-	-	-	2.47												
56-44.7111-109.2950-2-07-						0-W00812-05/31/77-12-	17-	14.0-	-		6.8-	1900-	3-1-4-4-4-2-3-5-2-4-4-5-1-		-1-	-	-	-	-	3.43												
56-44.7108-109.2414-2-07-						0-W00815-05/31/77-13-	19-	18.0-	-		6.3-	750-	3-1-1-4-1-3-3-1-1-3-3-4-2-		-1-	-	-	-	-	0.53												

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
56-	44.6872-	109.2669-	2-	07-		0-W00817-	05/31/77-	14-	19-	9.5-	-	-	6.5-	850-		4-	1-	1-	4-	1-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	1.36
56-	44.6897-	109.2978-	2-	07-		0-W00818-	05/31/77-	14-	19-	10.0-	-	-	6.5-	800-		4-	1-	1-	4-	1-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	2.07
56-	44.6856-	109.2642-	2-	07-		0-W00819-	05/31/77-	15-	19-	10.0-	-	-	6.2-	850-		4-	1-	1-	4-	1-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	1.64
56-	44.6806-	109.2672-	2-	06-		0-W00820-	05/31/77-	16-	15-	8.5-	-	-	6.8-	900-		5-	1-	1-	4-	1-	2-	2-	1-	2-	4-	3-	5-	2-	-1-	-	-	-	-	2.21
56-	44.6714-	109.2525-	2-	07-		0-W00822-	05/31/77-	16-	19-	11.5-	-	-	6.8-	700-		5-	1-	1-	4-	1-	3-	3-	1-	1-	3-	3-	5-	2-	-1-	-	-	-	-	1.14
56-	44.6508-	109.2656-	2-	07-		0-W00823-	05/31/77-	17-	19-	10.0-	-	-	6.5-	850-		2-	1-	1-	4-	1-	3-	3-	1-	1-	3-	3-	5-	2-	-1-	-	-	-	-	1.28
56-	44.6497-	109.2611-	2-	07-		0-W00824-	05/31/77-	17-	19-	11.0-	-	-	6.5-	850-		5-	1-	1-	4-	1-	3-	3-	1-	1-	3-	3-	5-	2-	-1-	-	-	-	-	1.22
56-	44.2078-	109.0189-	2-	07-		0-W00827-	05/30/77-	13-	13-	20.5-	-	-	7.8-	2350-		13-	4-	-6-	8-	2-	4-	2-	3-	4-	4-	3-	2-	-3-	-	-	-	-	-	5.98
56-	44.2328-	109.0378-	2-	07-		0-W00828-	05/30/77-	13-	11-	11.5-	C-	-	8.8-	500-		9-	-	-	-	-	-	-	-	-	-	-	-	-4-	-	-	-	-	-	1.17
56-	44.2519-	109.0897-	2-	07-		0-W00829-	05/30/77-	14-	10-	14.5-	C-	-	8.8-	125-		18-	4-	-2-	7-	3-	3-	1-	2-	2-	3-	3-	2-	-3-	-	-	-	-	-	0.17
56-	44.2683-	109.2136-	2-	07-		0-W00830-	05/30/77-	15-	15-	8.5-	-	-	9.0-	70-		22-	1-	4-	1-	7-	3-	3-	1-	2-	1-	3-	4-	2-	-1-	-	-	-	-	0.56
56-	44.2711-	109.2128-	2-	07-		0-W00831-	05/30/77-	15-	15-	10.5-	-	-	8.6-	70-		13-	1-	4-	1-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.21
56-	44.2764-	109.2025-	2-	07-		0-W00832-	05/30/77-	15-	15-	11.5-	-	-	8.4-	65-		9-	1-	4-	3-	6-	3-	3-	1-	2-	1-	3-	4-	2-	-1-	-	-	-	-	0.88
56-	44.2706-	109.1928-	2-	07-		0-W00833-	05/30/77-	16-	14-	11.5-	-	-	8.2-	75-		9-	4-	-2-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	-	0.19
56-	44.2667-	109.1522-	2-	07-		0-W00834-	05/30/77-	16-	16-	9.5-	C-	-	8.6-	240-		9-	4-	-3-	4-	3-	3-	2-	2-	1-	3-	3-	2-	-3-	-	-	-	-	-	0.32
56-	44.2869-	109.0417-	2-	07-		0-W00835-	05/30/77-	18-	18-	16.5-	-	-	8.4-	1200-		9-	4-	-3-	6-	3-	3-	1-	2-	2-	2-	4-	2-	-1-	-	-	-	-	-	0.27
56-	44.3639-	109.0494-	2-	07-		0-W00842-	05/31/77-	11-	20-	13.5-	-	-	8.2-	800-		9-	4-	-4-	6-	2-	3-	2-	2-	3-	3-	2-	2-	-3-	-	-	-	-	-	5.76
56-	44.3642-	109.0383-	2-	07-		0-W00844-	05/31/77-	11-	22-	24.5-	-	-	7.4-	25000-		18-	4-	-5-	6-	2-	4-	1-	2-	4-	4-	3-	2-	1-	-3-	-	-	-	-	27.86*
56-	44.3133-	109.0781-	2-	07-		0-W00847-	05/31/77-	13-	25-	18.5-	-	-	8.4-	450-		9-	4-	-4-	6-	3-	3-	2-	2-	2-	3-	3-	2-	-3-	-	-	-	-	-	1.31
56-	44.3083-	109.0628-	2-	07-		0-W00849-	05/31/77-	14-	23-	22.5-	-	-	8.0-	2500-		13-	1-	6-	3-	6-	2-	4-	1-	2-	4-	3-	3-	1-	-3-	-	-	-	-	8.27
56-	44.3192-	109.0831-	2-	07-		0-W00850-	05/31/77-	14-	20-	20.5-	C-	-	8.6-	500-		9-	4-	-3-	6-	2-	3-	2-	1-	2-	2-	3-	2-	-3-	-	-	-	-	-	1.04
56-	44.3450-	109.1050-	2-	07-		0-W00852-	05/31/77-	15-	20-	18.5-	-	-	8.4-	280-		9-	4-	-3-	6-	3-	3-	1-	2-	2-	2-	3-	2-	-3-	-	-	-	-	-	0.09
56-	44.3394-	109.1150-	2-	07-		0-W00853-	05/31/77-	15-	22-	17.5-	-	-	8.2-	260-		13-	4-	-2-	6-	3-	3-	1-	2-	2-	2-	2-	2-	-3-	-	-	-	-	-	0.05
56-	44.4158-	109.0847-	2-	07-		0-W00857-	05/31/77-	16-	21-	29.5-	C-	-	7.8-	31000-		4-	1-	6-	3-	6-	2-	3-	1-	2-	3-	2-	3-	2-	-3-	-	-	-	-	30.45*
56-	44.4703-	109.0972-	2-	07-		0-W00859-	06/01/77-	9-	20-	11.5-	-	-	8.0-	2100-		4-	1-	4-	5-	6-	2-	3-	1-	2-	3-	3-	2-	1-	-3-	-	-	-	-	2.74
56-	44.4881-	109.0797-	2-	07-		0-W00860-	06/01/77-	9-	21-	15.5-	-	-	7.8-	1500-		13-	1-	4-	5-	6-	2-	3-	1-	2-	4-	3-	2-	1-	-3-	-	-	-	-	4.53
56-	44.4536-	109.1331-	2-	07-		0-W00862-	06/01/77-	10-	23-	14.5-	-	-	8.0-	800-		13-	4-	-5-	6-	4-	4-	4-	2-	4-	3-	2-	1-	-3-	-	-	-	-	-	3.72
56-	44.3714-	109.1258-	2-	07-		0-W00865-	06/01/77-	12-	23-	22.5-	-	-	8.4-	600-		4-	4-	-3-	6-	2-	3-	1-	2-	4-	3-	4-	1-	-3-	-	-	-	-	-	3.67
56-	44.3211-	109.2236-	2-	07-		0-W00869-	06/01/77-	13-	20-	10.0-	-	-	8.6-	100-		13-	4-	-3-	7-	4-	4-	3-	2-	1-	3-	4-	2-	-3-	-	-	-	-	-	0.26
56-	44.3369-	109.2094-	2-	07-		0-W00870-	06/01/77-	14-	19-	11.5-	-	-	8.2-	110-		9-	4-	-3-	7-	3-	3-	2-	2-	2-	3-	3-	2-	-3-	-	-	-	-	-	0.61
56-	44.3611-	109.1928-	2-	07-		0-W00872-	06/01/77-	14-	20-	13.5-	-	-	8.0-	500-		4-	4-	-3-	6-	2-	3-	1-	2-	2-	3-	3-	2-	-3-	-	-	-	-	-	1.36
56-	44.3906-	109.2067-	2-	07-		0-W00873-	06/01/77-	15-	24-	23.5-	C-	-	8.0-	230-		9-	4-	-3-	7-	2-	3-	3-	2-	2-	3-	3-	2-	2-	-3-	-	-	-	-	0.65
56-	44.3886-	109.2369-	2-	07-		0-W00874-	06/01/77-	15-	25-	20.5-	-	-	8.4-	190-		13-	4-	-3-	7-	3-	3-	3-	2-	2-	3-	3-	2-	-3-	-	-	-	-	-	0.81
56-	44.4050-	109.2681-	2-	07-		0-W00875-	06/01/77-	15-	27-	18.5-	-	-	8.4-	700-		9-	4-	-2-	7-	3-	3-	1-	2-	2-	3-	3-	2-	-3-	-	-	-	-	-	12.57
56-	44.4133-	109.2958-	2-	07-		0-W00876-	06/01/77-	16-	22-	25.5-	C-	-	7.6-	180-		9-	4-	-3-	6-	2-	2-	1-	2-	2-	3-	3-	2-	-3-	-	-	-	-	-	0.38
56-	44.6706-	109.6783-	2-	07-		0-W00877-	05/31/77-	18-		9.0-	-	-	6.6-	55-		4-	3-	7-	4-	6-	3-	2-	1-	2-	1-	4-	2-	2-	-1-	-	-	-	-	0.23
56-	44.6578-	109.7031-	2-	07-		0-W00879-	06/01/77-	12-	20-	8.5-	-	-	6.6-	65-		13-	3-	7-	4-	6-	3-	2-	1-	2-	1-	4-	5-	1-	-1-	-	-	-	-	1.13
56-	44.6617-	109.7356-	2-	06-		0-W00880-	06/01/77-	12-	24-	4.0-	C-	-	6.8-	90-		15-	4-	-	-	-3-	2-	1-	2-	1-	3-	5-	1-	-1-	-	-	-	-	-	1.36
56-	44.6681-	109.7478-	2-	07-		0-W00881-	06/01/77-	13-	19-	11.0-	-	-	6.9-	60-		13-	3-	7-	4-	6-	3-	2-	1-	-1-	3-	5-	1-	-1-	-	-	-	-	-	1.24
56-	44.6558-	109.7000-	2-	07-		0-W00883-	06/01/77-	13-	23-	8.0-	-	-	6.3-	150-		9-	3-	7-	4-	6-	2-	2-	1-	2-	1-	4-	2-	1-	-1-	-	-	-	-	1.17
56-	44.6639-	109.6836-	2-	07-		0-W00884-	06/01/77-	14-	23-	6.0-	C-	-	6.5-	120-		2-	4-	9-	4-	6-	2-	3-	1-	3-	1-	4-	2-	1-	-1-	-	-	-	-	1.66
56-	44.6644-	109.6686-	2-	07-		0-W00885-	06/01/77-	14-	18-	9.5-	-	-	5.7-	55-		9-	3-	7-	4-	6-	3-	2-	2-	2-	1-	4-	3-	1-	-1-	-	-	-	-	1.17
56-	44.6808-	109.6422-	2-	07-		0-W00886-	06/01/77-	15-	19-	13.5-	-	-	5.7-	50-		15-	3-	7-	4-	6-	3-	2-	2-	2-	1-	3-	2-	2-	-1-	-	-	-	-	1.09
56-	44.7039-	109.6047-	2-	07-		0-W00887-	06/01/77-	15-	23-	13.0-	-	-	6.6-	70-		9-	3-	7-	4-	6-	3-	2-	4-	2-	1-	2-	2-	2-	-1-	-	-	-	-	0.03
56-	44.6867-	109.5944-	2-	07-		0-W00888-	06/01/77-	16-	18-	10.0-	-	-	6.9-	70-		9-	1-	1-	4-	6-	4-	2-	2-	2-	1-	2-	3-	2-	-1-	-	-	-	-	0.01
56-	44.6856-	109.5981-	2-	07-		0-W00889-	06/01/77-	16-	16-	8.5-	-	-	6.6-	60-		6-	1-	1-	4-	6-	4-	2-	4-	2-	1-	2-	4-	2-	-1-	-	-	-	-	0.40
56-	44.4583-	109.5753-	2-	07-		0-W00891-	06/02/77-	10-	18-	8.0-	-	-	6.8-	70-		11-	3-	7-	4-	6-	3-	2-	4-	2-	1-	2-	3-	1-	-1-	-	-	-	-	0.03
56-	44.4506-	109.5961-	2-	07-		0-W00892-	06/02/77-	10-	20-	9.0-	-	-	6.9-	180-		6-	3-	6-	4-	6-	3-	2-	4-	2-	1-	2-	4-	1-	-1-	-	-	-	-	0.16
56-	44.4689-	109.6275-	2-	07-		0-W00893-	06/02/77-	10-	14-	10.5-	-	-	6.4-	75-		11-	3-	7-	4-	6-	3-	2-	4-	2-	2-	3-	2-	1-	-1-	-	-	-	-	0.35
56-	44.4717-	109.7000-	2-	07-		0-W00894-	06/02/77-	11-	23-	11.0-	-	-	7.2-	280-		9-	3-	6-	4-	6-	2-	2-	1-	2-	2-	3-	1-	-1-	-	-	-	-	-	0.56
56-	44.4550-	109.7156-	2-	07-		0-W00895-	06/02/77-	11-	18-	11.5-	C-	-	6.9-	160-		4-	4-	9-	4-	6-	2-	2-	1-	2-	1-	3-	2-	1-	-1-	-	-	-	-	0.29

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																													U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb
56-44.4692-109.7203-2-07-						0-W00896-06/02/77-12-		19-15.0-	-	-			6.6-	80-	11-3-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	0.15
56-44.4436-109.7461-2-07-						0-W00897-06/02/77-12-		17-11.0-	-	-			6.6-	60-	4-3-7-4-6-4-2-1-2-1-3-3-2-	-1-	-	-	-	0.54
56-44.4450-109.7439-2-07-						0-W00898-06/02/77-12-		18-16.0-	-	-			7.1-	225-	9-3-7-4-6-3-2-1-2-1-3-3-2-	-1-	-	-	-	0.25
56-44.4592-109.5517-2-07-						0-W00899-06/02/77-13-		23-16.0-	-	-			6.9-	190-	6-3-6-4-6-2-2-1-2-1-2-3-2-	-1-	-	-	-	0.47
56-44.4494-109.5256-2-07-						0-W00901-06/02/77-13-		21- 2.6-	-	-			6.9-	105-	11-3-7-4-6-2-2-1-2-1-2-2-2-	-1-	-	-	-	0.08
56-44.4689-109.5239-2-07-						0-W00902-06/02/77-14-		23-14.0-	-	-			7.4-	360-	11- - -4-6-2-2-1-2-2-3-3-2-	-1-	-	-	-	0.06
56-44.4656-109.5225-2-08-						0-W00903-06/02/77-15-		29- 9.0-C-	-	-			6.3-	370-	4- - - - - - - - - - - -2-	-1-	3-	6-	92-	15-	0.45
56-44.4633-109.5231-2-08-						0-W00904-06/02/77-16-		21- 9.5-C-	-	-			7.0-	950-	11- - - - - - - - - - - -3-	-1-	3-	5-	90-	18-	0.26
56-44.4789-109.5183-2-07-						0-W00905-06/02/77-17-		22-16.0-	-	-			6.7-	80-	4-3-7-4-6-3-2-1-2-2-2-2-3-	-1-	-	-	-	-	0.18
56-44.4983-109.5164-2-06-						0-W00906-06/02/77-17-		13- 8.0-C-	-	-			7.1-	195-	11-4-9- - -2-2-1-3-2-3-2-3-	-1-	-	-	-	-	0.47
56-44.5000-109.5156-2-07-						0-W00907-06/02/77-18-		17- 9.5-	-	-			6.3-	40-	9-3-7-4-6-4-2-4-2-1-3-3-3-	-1-	-	-	-	-	0.25
56-44.4811-109.5081-2-07-						0-W00908-06/02/77-18-		20-10.5-C-	-	-			6.5-	40-	9-3-6-4-6-4-2-4-2-2-3-3-3-	-3-	-	-	-	-	0.39
56-44.4561-109.7544-2-06-						0-W00909-06/03/77-10-		14-10.5-C-	-	-			6.7-	170-	11-4-9- - -2-2-1-3-1-2-3-1-	-1-	-	-	-	-	0.54
56-44.4581-109.7544-2-07-						0-W00910-06/03/77-10-		17- 9.5-	-	-			6.9-	110-	4-3-6-4-6-3-2-1-2-1-2-3-1-	-1-	-	-	-	-	0.15
56-44.4583-109.7903-2-07-						0-W00911-06/03/77-10-		20- 8.0-	-	-			6.4-	45-	11-3-7-4-6-4-2-2-2-1-2-3-1-	-1-	-	-	-	-	0.19
56-44.4556-109.8356-2-07-						0-W00912-06/03/77-11-		14- 8.0-	-	-			6.5-	60-	6- - -4-6-3-2-1-2-1-2-3-2-	-1-	-	-	-	-	0.28
56-44.4508-109.8583-2-07-						0-W00913-06/03/77-11-		13- 7.0-	-	-			6.9-	55-	13-3-7-4-6-4-2-1-2-1-3-3-2-	-1-	-	-	-	-	0.45
56-44.4333-109.8650-2-07-						0-W00914-06/03/77-11-		13- 7.0-	-	-			6.5-	50-	9-3-7-4-6-4-2-1-2-1-3-4-2-	-1-	-	-	-	-	0.17
56-44.4644-109.8581-2-07-						0-W00915-06/03/77-12-		20-14.0-	-	-			6.9-	90-	9-3-7-4-6-3-2-1-2-1-3-3-2-	-1-	-	-	-	-	0.34
56-44.4736-109.8944-2-07-						0-W00916-06/03/77-12-		16- 9.5-	-	-			7.1-	40-	13-3-7-4-6-4-2-1-2-1-3-3-2-	-1-	-	-	-	-	0.57
56-44.4944-109.9333-2-07-						0-W00917-06/03/77-12-		21-10.0-	-	-			6.6-	45-	13-3-7-4-6-4-2-2-2-1-3-3-2-	-1-	-	-	-	-	0.17
56-44.4875-109.9306-2-07-						0-W00918-06/03/77-13-		16- 9.0-	-	-			6.4-	40-	18-3-7-4-6-4-2-1-2-1-3-4-2-	-1-	-	-	-	-	0.49
56-44.4931-109.9958-2-06-						0-W00919-06/03/77-16-		17-10.5-	-	-			7.1-	150-	11-3-7- - -2-2-1-3-1-2-2-2-	-1-	-	-	-	-	0.38
56-44.5067-109.9622-2-07-						0-W00920-06/03/77-17-		21-11.5-	-	-			6.6-	45-	6-3-6-4-6-3-2-4-2-1-3-4-2-	-1-	-	-	-	-	0.25
56-44.4931-109.9917-2-07-						0-W00921-06/03/77-16-		19- 9.5-	-	-			6.3-	40-	11-3-7-4-6-3-2-2-2-1-3-2-2-	-1-	-	-	-	-	0.01
56-44.5131-109.9217-2-07-						0-W00922-06/04/77-10-		17- 5.0-	-	-			6.3-	31-	11-3-7-4-6-4-2-1-2-1-4-3-1-	-1-	-	-	-	-	0.06
56-44.5142-109.9183-2-07-						0-W00923-06/04/77-10-		20- 7.0-	-	-			6.1-	42-	11-3-7-4-6-4-2-2-2-1-4-3-1-	-1-	-	-	-	-	0.79
56-44.4986-109.9542-2-07-						0-W00925-06/04/77-12-		17-10.0-	-	-			6.3-	46-	6-3-7-4-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-	0.60
56-44.4533-109.4931-2-06-						0-W00926-06/04/77-14-		26-20.0-C-	-	-			8.1-	1000-	13-4-9- - -2-2-1-2-4-3-3-2-	-9-	-	-	-	-	2.46
56-44.3842-109.2625-2-07-						0-W00928-06/01/77-17-		27-27.5-	-	-			8.6-	550-	-4- -3-6-2-3-1-2-4-3-3-2-	-3-	-	-	-	-	1.35
56-44.1753-109.6025-2-06-						0-W00929-06/02/77-10-		25-11.5-	-	-			8.2-	125-	9-1-4- - -2-3-1-2-2-3-4-1-	-1-	-	-	-	-	0.41
56-44.1911-109.5886-2-07-						0-W00930-06/02/77-10-		20-12.0-	-	-			8.4-	45-	22-1-6-3-6-3-3-1-2-2-2-3-1-	-1-	-	-	-	-	0.60
56-44.1944-109.5819-2-07-						0-W00931-06/02/77-11-		21-12.5-	-	-			8.2-	47-	9-1-6-3-6-3-3-1-2-2-3-3-1-	-1-	-	-	-	-	0.25
56-44.2083-109.5597-2-07-						0-W00932-06/02/77-11-		23-16.5-	-	-			8.0-	90-	13-1-6-3-6-3-3-1-2-2-3-3-1-	-1-	-	-	-	-	0.56
56-44.1525-109.6017-2-07-						0-W00933-06/02/77-11-		23-12.0-	-	-			8.4-	180-	9-4- -5-6-2-3-1-2-4-3-3-1-	-1-	-	-	-	-	1.07
56-44.2289-109.5128-2-07-						0-W00936-06/02/77-13-		27-16.5-	-	-			8.2-	100-	18-4- -2-7-3-3-1-2-3-3-3-2-	-3-	-	-	-	-	0.67
56-44.2447-109.4897-2-07-						0-W00937-06/02/77-13-		23-14.0-	-	-			8.6-	80-	13-4- -3-7-4-4-4-2-2-3-3-2-	-3-	-	-	-	-	0.07
56-44.2614-109.4483-2-07-						0-W00940-06/02/77-15-		26-17.5-	-	-			8.4-	85-	9-1-4-3-7-4-4-4-2-2-3-3-2-	-1-	-	-	-	-	0.21
56-44.3272-109.4719-2-07-						0-W00941-06/02/77-17-		23-10.5-	-	-			8.6-	55-	4-1-6-4-6-4-4-4-2-2-3-3-2-	-3-	-	-	-	-	1.92
56-44.3279-109.4811-2-07-						0-W00943-06/02/77-17-		24-14.5-	-	-			8.6-	130-	13-1-6-3-7-3-4-3-2-1-3-4-2-	-3-	-	-	-	-	0.03
56-44.3021-109.4944-2-07-						0-W00944-06/02/77-18-		20-15.5-	-	-			8.2-	135-	9-1-6-3-7-3-4-4-2-2-3-3-2-	-3-	-	-	-	-	0.30
56-44.3019-109.4961-2-07-						0-W00945-06/02/77-18-		20-17.5-	-	-			8.2-	330-	13- - - - - - - - - - - - -1-	-	-	-	-	-	0.52
56-44.2989-109.4339-2-07-						0-W00947-06/03/77-10-		16-13.5-	-	-			8.4-	300-	9-4- -3-7-2-4-3-2-3-3-3-2-	-3-	-	-	-	-	1.17
56-44.3592-109.4117-2-07-						0-W00951-06/03/77-12-		25-14.5-	-	-			8.0-	330-	18-4- -3-7-2-3-1-2-1-2-3-2-	-3-	-	-	-	-	0.77
56-44.3453-109.3817-2-07-						0-W00953-06/03/77-13-		22-19.0-	-	-			8.6-	600-	13-4- -3-6-2-3-1-2-2-2-3-2-	-3-	-	-	-	-	3.46
56-44.3447-109.3886-2-07-						0-W00954-06/03/77-13-		23-20.5-	-	-			8.4-	380-	9-4- -3-7-2-3-1-2-1-3-3-2-	-3-	-	-	-	-	1.19
56-44.2817-109.3694-2-07-						0-W00955-06/03/77-15-		23-13.5-	-	-			8.4-	80-	18-1-4-2-7-3-4-3-2-3-3-3-2-	-3-	-	-	-	-	0.54
56-44.2797-109.3719-2-07-						0-W00956-06/03/77-15-		23-12.5-	-	-			8.2-	150-	13-1-4-3-7-4-3-3-2-2-3-3-2-	-3-	-	-	-	-	0.28
56-44.3014-109.3761-2-07-						0-W00957-06/03/77-16-		23-12.0-	-	-			8.6-	60-	9-4- -3-7-4-4-3-2-2-3-3-2-	-3-	-	-	-	-	0.22
56-44.3000-109.3144-2-07-						0-W00959-06/04/77- 9-		11- 8.5-	-	-			8.2-	110-	18-4- -3-6-3-4-3-2-1-3-3-2-	-1-	-	-	-	-	0.09
56-44.3653-109.3569-2-07-						0-W00960-06/04/77- 9-		18-17.5-	-	-			8.4-	550-	9-4- -4-6-2-3-1-2-4-3-3-2-	-3-	-	-	-	-	1.04

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
56-44.3700-	109.3428-	2-07-	0-	W00961-	06/04/77-	10-	27-	18.5-	-	-	8.8-	650-	4-4-	-3-7-2-3-1-2-2-3-3-2-	-3-	-	-	-	-	1.53													
56-44.3564-	109.3200-	2-07-	0-	W00963-	06/04/77-	10-	27-	15.0-	-	-	8.6-	400-	9-4-	-3-7-3-3-3-2-2-3-3-2-	-3-	-	-	-	-	1.07													
56-44.3619-	109.3019-	2-07-	0-	W00964-	06/04/77-	11-	25-	15.5-	-	-	8.2-	280-	0-4-	-3-7-3-3-2-2-2-3-3-2-	-3-	-	-	-	-	0.88													
56-44.4756-	109.3711-	2-07-	0-	W00967-	06/04/77-	12-	27-	26.5-	-	-	8.4-	800-	4-4-	-3-7-2-2-1-2-3-3-3-2-	-3-	-	-	-	-	1.00													
56-44.4347-	109.3831-	2-07-	0-	W00969-	06/04/77-	13-	29-	17.5-	-	-	9.0-	360-	9-1-6-4-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-	0.17														
56-44.4653-	109.4031-	2-07-	0-	W00970-	06/04/77-	13-	28-	23.5-	-	-	8.6-	240-	C-4-	-3-6-3-3-2-2-4-3-2-2-	-3-	-	-	-	-	0.54														
56-44.4225-	109.4247-	2-07-	0-	W00972-	06/04/77-	15-	21-	10.5-	-	-	9.0-	110-	4-2-4-2-7-3-3-1-2-1-3-4-2-	-3-	-	-	-	-	0.16														
56-44.6872-	109.2106-	2-07-	0-	W00977-	06/01/77-	10-	26-	15.0-	-	-	6.8-	1800-	6-1-1-6-7-2-2-3-2-2-3-4-1-	-3-	-	-	-	-	87.60*														
56-44.6675-	109.1914-	2-07-	0-	W00980-	06/01/77-	12-	25-	-	-	-	6.5-	2000-	3-1-1-5-6-2-2-3-2-4-4-3-1-	-1-	-	-	-	-	6.01														
56-44.6278-	109.1611-	2-07-	0-	W00984-	06/01/77-	13-	32-	16.0-	-	-	6.3-	700-	9-1-1-6-6-2-2-1-2-2-4-3-1-	-3-	-	-	-	-	1.23														
56-44.6161-	109.1367-	2-06-	0-	W00985-	06/01/77-	14-	25-	26.0-	C-	-	6.5-	1300-	3-1-1-6-8-2-3-1-1-6-4-3-1-	-1-	-	-	-	-	2.46														
56-44.5858-	109.0717-	2-07-	0-	W00993-	06/01/77-	17-	28-	25.0-	C-	-	6.3-	5000-	8-1-1-6-6-1-2-2-1-6-5-2-2-	-9-	-	-	-	-	18.25														
56-44.5822-	109.0831-	2-07-	0-	W00994-	06/01/77-	18-	24-	15.0-	C-	-	6.1-	2300-	6-1-1-7- -1-3-5-1-6-5-2-1-	-9-	-	-	-	-	11.32														
56-44.6464-	109.0264-	2-07-	0-	W00997-	06/02/77-	11-	22-	20.0-	-	-	6.8-	1300-	2-1-1-5-6-2-2-2-2-3-2-2-1-	-3-	-	-	-	-	11.02														
56-44.7381-	109.0483-	2-07-	0-	W00999-	06/02/77-	13-	22-	17.5-	C-	-	5.9-	210-	0-1-1-3-1-3-3-1-2-4-4-2-2-	-3-	-	-	-	-	1.10														
56-44.7183-	109.1244-	2-07-	0-	W01002-	06/02/77-	14-	24-	20.0-	-	-	6.3-	820-	8-1-3- - -2-2-1-2-3-2-4-2-	-3-	-	-	-	-	3.47														
56-44.7022-	109.1358-	2-07-	0-	W01003-	06/02/77-	15-	20-	20.0-	-	-	6.3-	750-	7-1-1-5-6-3-2-1-2-3-2-4-2-	-3-	-	-	-	-	4.32														
56-44.7011-	109.1317-	2-07-	0-	W01004-	06/02/77-	15-	20-	25.0-	C-	-	6.5-	795-	9-1-1-5-7-2-2-2-2-3-2-4-2-	-3-	-	-	-	-	9.99														
56-44.7183-	109.0461-	2-07-	0-	W01005-	06/02/77-	16-	20-	24.0-	-	-	6.5-	1340-	6-1-1-5-6-2-2-1-2-3-2-1-4-	-3-	-	-	-	-	9.93														
56-44.6167-	109.2039-	2-06-	0-	W01007-	06/03/77-	9-	16-	9.0-	C-	-	5.7-	390-	6-4- -5-8-2-3-1-1-4-4-3-2-	-1-	-	-	-	-	6.64														
56-44.6219-	109.2275-	2-06-	0-	W01008-	06/03/77-	9-	17-	13.5-	-	-	5.9-	550-	11-1-3-5-8-2-2-1-1-4-4-4-2-	-1-	-	-	-	-	1.61														
56-44.6172-	109.2811-	2-06-	0-	W01009-	06/03/77-	10-	19-	12.5-	-	-	6.3-	680-	6-1-3-5-3-2-3-1-2-4-3-5-2-	-1-	-	-	-	-	2.72														
56-44.6342-	109.3361-	2-06-	0-	W01010-	06/03/77-	11-	13-	3.5-	-	-	5.9-	315-	5-4- -5-6-2-3-1-2-4-3-4-2-	-1-	-	-	-	-	0.40														
56-44.6247-	109.3572-	2-06-	0-	W01011-	06/03/77-	12-	17-	2.5-	-	-	5.9-	300-	7-1-1-5-6-2-2-3-2-4-3-4-2-	-1-	-	-	-	-	3.19														
56-44.6131-	109.2422-	2-06-	0-	W01012-	06/03/77-	13-	25-	24.0-	-	-	6.8-	3000-	3-1-7-5-6-2-2-1-2-4-4-5-2-	-1-	-	-	-	-	9.68														
56-44.5719-	109.1822-	2-07-	0-	W01018-	06/03/77-	16-	27-	12.0-	-	-	5.9-	800-	7-1-4-5-4-3-3-3-2-2-3-4-2-	-3-	-	-	-	-	10.27														
56-44.5900-	109.2697-	2-06-	0-	W01022-	06/03/77-	17-	24-	9.0-	-	-	5.9-	2200-	4-1-4-5-4-2-3-1-2-4-3-3-2-	-1-	-	-	-	-	80.92*														
56-44.5136-	109.1144-	2-06-	0-	W01026-	06/04/77-	10-	19-	27.0-	C-	-	6.3-	1600-	5-1-1-5-1-4-3-1-1-3-1-5-2-	-8-	-	-	-	-	0.77														
56-44.5364-	109.2878-	2-07-	0-	W01032-	06/04/77-	11-	34-	15.5-	-	-	6.5-	900-	4-1-1-5-6-3-3-1-2-2-3-4-2-	-3-	-	-	-	-	3.21														
56-44.5575-	109.3131-	2-07-	0-	W01035-	06/04/77-	13-	26-	17.5-	-	-	6.5-	910-	2-1-7-5-7-3-3-3-2-2-2-4-2-	-3-	-	-	-	-	2.80														
56-44.5686-	109.3608-	2-06-	0-	W01036-	06/04/77-	14-	26-	9.0-	C-	-	5.7-	310-	5-4-7-7- -4-3-1-3-3-3-4-2-	-9-	-	-	-	-	2.35														
56-44.6117-	109.3847-	2-06-	0-	W01039-	06/04/77-	14-	28-	8.0-	-	-	5.7-	310-	2-1-1-5-6-3-3-1-2-2-3-3-2-	-1-	-	-	-	-	0.85														
56-44.6175-	109.3942-	2-07-	0-	W01040-	06/04/77-	15-	22-	10.0-	-	-	5.7-	180-	6-1-1-5-6-3-3-1-2-2-3-3-3-	-1-	-	-	-	-	0.83														
56-44.6700-	109.7767-	2-07-	0-	W01042-	06/05/77-	13-	23-	8.5-	C-	-	5.5-	170-	1-1-7-5-6-5-4-3-2-1-4-4-1-	-1-	-	-	-	-	0.18														
56-44.6653-	109.7983-	2-07-	0-	W01043-	06/05/77-	14-	20-	9.0-	-	-	5.5-	28-	5-1-7-2-7-4-4-3-2-1-4-4-1-	-1-	-	-	-	-	0.38														
56-44.6631-	109.7967-	2-07-	0-	W01044-	06/05/77-	14-	22-	8.5-	-	-	5.5-	28-	5-1-7-2-7-4-4-3-2-1-4-2-1-	-1-	-	-	-	-	0.49														
56-44.6633-	109.7883-	2-07-	0-	W01045-	06/05/77-	14-	20-	8.0-	-	-	5.7-	23-	6-1-7-3-7-4-4-3-2-1-4-4-1-	-1-	-	-	-	-	0.09														
56-44.6658-	109.7633-	2-07-	0-	W01046-	06/05/77-	15-	22-	8.5-	-	-	5.5-	26-	7-1-7-2-7-4-4-3-2-1-4-3-1-	-1-	-	-	-	-	0.28														
56-44.4525-	109.4919-	2-07-	0-	W01047-	06/04/77-	13-	21-	16.0-	C-	-	6.9-	175-	15-4-9-4-6-2-2-1-2-2-3-3-2-	-1-	-	-	-	-	0.02														
56-44.4594-	109.4572-	2-07-	0-	W01048-	06/04/77-	14-	22-	13.0-	C-	-	7.5-	380-	6-4-9- - -3-2-1-2-4-3-2-2-	-1-	-	-	-	-	0.57														
56-44.4806-	109.3956-	2-07-	0-	W01051-	06/04/77-	16-	28-	24.0-	C-	-	7.4-	125-	13-4-9-4-6-2-2-1-2-4-3-2-2-	-1-	-	-	-	-	0.17														
56-44.4892-	109.3500-	2-07-	0-	W01052-	06/04/77-	17-	23-	18.0-	C-	-	6.6-	100-	2-4-9-4-6-3-2-2-2-2-3-2-2-	-1-	-	-	-	-	0.31														
56-44.3231-	109.8994-	2-07-	0-	W01054-	07/27/77-	12-	22-	12.0-	-	-	5.7-	90-	1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	0.02														
56-44.3103-	109.9228-	2-07-	0-	W01055-	07/27/77-	12-	22-	12.0-	-	-	5.7-	90-	1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	0.06														
56-44.3089-	109.8758-	2-07-	0-	W01056-	07/27/77-	12-	22-	12.0-	-	-	5.7-	90-	1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	0.05														
56-44.3022-	109.8694-	2-07-	0-	W01057-	07/27/77-	13-	22-	12.0-	-	-	5.5-	50-	1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	0.09														
56-44.3017-	109.8708-	2-07-	0-	W01058-	07/27/77-	13-	22-	12.0-	-	-	5.5-	50-	1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	0.09														
56-44.2922-	109.7603-	2-07-	0-	W01059-	07/27/77-	14-	19-	11.0-	-	-	6.1-	250-	1-1-6-3-6-3-2-1-2-1-3-4-1-	-1-	-	-	-	-	0.03														
56-44.2786-	109.7939-	2-07-	0-	W01060-	07/27/77-	14-	18-	9.0-	-	-	6.1-	250-	1-1-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	0.01														
56-44.2772-	109.8033-	2-07-	0-	W01061-	07/27/77-	15-	16-	11.0-	-	-	6.1-	240-	1-1-6-3-6-5-2-1-2-3-2-3-1-	-1-	-	-	-	-	0.25														
56-44.2733-	109.8128-	2-07-	0-	W01062-	07/27/77-	15-	16-	11.0-	-	-	6.1-	250-	1-1-6-3-6-3-2-1-2-2-3-3-1-	-1-	-	-	-	-	0.03														

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (W) UNITS IN ppb
56-44.3672-109.6844-2-07-						0-W01063-07/27/77-10-			16-11.0-		-	-	6.1-	250-		1-2-6-4-6-3-2-1-2-1-2-3-1-				-1-	-	-	-	-	-							0.01
56-44.3658-109.6869-2-07-						0-W01064-07/27/77-10-			16-11.0-		-	-	6.1-	250-		1-2-6-4-6-3-2-1-2-1-3-3-1-				-1-	-	-	-	-	-							C.07
56-44.3514-109.6728-2-07-						0-W01066-07/27/77-10-			16-11.0-		-	-	5.5-	50-		1-3-6-3-6-3-2-1-2-1-3-3-1-				-1-	-	-	-	-	-							0.14
56-44.4644-109.5953-2-07-						0-W01067-07/04/77- 7-			16-11.0-		-	-	5.9-	80-		C-3-7-2-6-3-3-2-2-1-3-4-3-				-1-	-	-	-	-	-							0.02
56-44.4639-109.5989-2-07-						0-W01068-07/04/77- 7-			16-10.0-		-	-	5.8-	56-		0-3-7-2-6-3-3-2-2-1-3-4-3-				-1-	-	-	-	-	-							0.30
56-44.4972-109.6106-2-07-						0-W01069-07/04/77- 8-			16-10.0-		-	-	6.0-	110-		0-3-1-3-4-3-2-1-2-1-3-4-3-				-1-	-	-	-	-	-							0.31
56-44.4983-109.6122-2-07-						0-W01070-07/04/77- 8-			16-10.0-		-	-	6.1-	110-		0-3-1-3-4-2-2-1-2-1-3-4-3-				-1-	-	-	-	-	-							1.35
56-44.4572-109.6317-2-07-						0-W01071-07/04/77- 8-			16-11.0-		-	-	5.9-	80-		0-2-7-2-7-3-3-1-2-1-3-4-3-				-1-	-	-	-	-	-							0.17
56-44.4431-109.6444-2-07-						0-W01072-07/04/77- 9-			18-11.0-		-	-	6.3-	120-		C-2-7-2-7-3-3-1-2-1-3-4-3-				-1-	-	-	-	-	-							0.40
56-44.4269-109.6564-2-07-						0-W01073-07/04/77- 9-			18-11.0-C		-	-	6.2-	70-		0-2-7-2-7-3-3-1-2-1-3-4-3-				-1-	-	-	-	-	-							0.87
56-44.4275-109.6606-2-07-						0-W01074-07/04/77- 9-			18-11.0-		-	-	6.2-	67-		0-2-7-2-7-3-3-1-2-1-3-4-3-				-1-	-	-	-	-	-							0.33
56-44.4053-109.6725-2-07-						0-W01075-07/04/77- 9-			18-11.0-		-	-	6.9-	175-		0-2-7-4-8-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-							0.39
56-44.4042-109.6694-2-07-						0-W01076-07/04/77- 9-			18-11.0-		-	-	5.7-	70-		0-2-7-3-4-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-							0.59
56-44.3833-109.6786-2-07-						0-W01077-07/04/77- 9-			18-10.0-		-	-	6.1-	70-		0-2-7-3-4-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-							0.20
56-44.3828-109.6761-2-07-						0-W01078-07/04/77- 9-			18-11.0-		-	-	5.9-	90-		0-2-7-3-4-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-							0.31
56-44.4664-109.7003-2-07-						0-W01079-07/04/77-10-			18-11.0-		-	-	5.9-	80-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-							0.47
56-44.5081-109.6536-2-07-						0-W01080-07/04/77-10-			18-11.0-		-	-	5.9-	58-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-							0.20
56-44.5261-109.6597-2-07-						0-W01081-07/04/77-10-			18-11.0-		-	-	5.9-	58-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-							C.21
56-44.5258-109.6631-2-07-						0-W01082-07/09/77-10-			18-11.0-		-	-	5.9-	60-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-							0.51
56-44.5392-109.6744-2-07-						0-W01083-07/04/77-10-			18-11.0-		-	-	5.8-	65-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-							0.13
56-44.5411-109.6706-2-07-						0-W01084-07/04/77-10-			18-11.0-		-	-	5.6-	85-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-							0.38
56-44.4258-109.7606-2-07-						0-W01085-07/04/77-12-			22-12.0-		-	-	6.2-	175-		0-2-7-3-4-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.23
56-44.4256-109.7586-2-07-						0-W01086-07/04/77-12-			22-11.5-		-	-	6.2-	175-		0-2-7-3-4-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.30
56-44.4558-109.7717-2-07-						0-W01087-07/04/77-12-			22-11.0-		-	-	6.2-	112-		C-2-7-3-4-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.31
56-44.4278-109.7875-2-07-						0-W01088-07/04/77-13-			23-11.0-		-	-	5.9-	64-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.33
56-44.4169-109.7939-2-07-						0-W01089-07/04/77-13-			23-11.0-		-	-	5.9-	65-		C-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.22
56-44.4514-109.7944-2-07-						0-W01090-07/04/77-14-			24-11.0-		-	-	5.7-	65-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.20
56-44.4497-109.8333-2-07-						0-W01091-07/04/77-14-			24-11.0-		-	-	6.1-	70-		0-2-7-3-4-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.03
56-44.4197-109.8536-2-07-						0-W01092-07/04/77-15-			24-11.0-		-	-	5.7-	75-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.05
56-44.3953-109.8603-2-07-						0-W01093-07/04/77-15-			24-11.0-		-	-	5.7-	65-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.07
56-44.3942-109.8639-2-07-						0-W01094-07/04/77-15-			25-11.0-		-	-	5.7-	65-		0-2-7-3-4-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.19
56-44.3936-109.8617-2-07-						0-W01095-07/04/77-15-			24-11.0-		-	-	5.6-	75-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							0.39
56-44.1886-109.5367-2-07-						0-W01096-07/06/77- 6-			14-11.0-		-	-	5.7-	130-		1-2-6-3-6-3-2-1-2-1-3-3-1-				-1-	-	-	-	-	-							0.26
56-44.1333-109.6139-2-07-						0-W01097-07/06/77-14-			22-11.0-C		-	-	5.7-	140-		1-2-6-5-6-3-2-4-1-4-3-2-1-				-3-	-	-	-	-	-							C.52
56-44.0339-109.5928-2-07-						0-W01098-07/06/77-18-			16-12.0-		-	-	5.7-	140-		1-2-6-2-6-3-2-1-2-1-5-4-1-				-1-	-	-	-	-	-							0.52
56-44.0322-109.5933-2-07-						0-W01099-07/06/77-18-			18-12.0-		-	-	5.7-	140-		1-2-6-2-6-3-2-1-2-1-5-4-1-				-1-	-	-	-	-	-							0.45
56-44.0336-109.5858-2-07-						0-W01100-07/06/77-18-			16-12.0-		-	-	5.7-	130-		1-2-6-2-6-3-2-1-2-1-5-4-1-				-1-	-	-	-	-	-							0.52
56-44.0069-109.5697-2-07-						0-W01101-07/06/77-19-			14- 9.0-		-	-	5.7-	100-		1-2-6-3-6-3-2-1-2-1-4-3-1-				-1-	-	-	-	-	-							0.03
56-44.0058-109.5711-2-07-						0-W01102-07/06/77-14-			14- 9.0-		-	-	5.7-	90-		1-2-6-3-6-3-2-1-2-1-4-3-1-				-1-	-	-	-	-	-							0.19
56-44.1281-109.6547-2-07-						0-W01103-07/05/77-18-			16-14.0-C		-	-	5.7-	140-		1-2-6-5-6-2-2-3-2-4-3-2-2-				-3-	-	-	-	-	-							0.29
56-44.1261-109.6556-2-07-						0-W01104-07/05/77-18-			16-14.0-C		-	-	5.7-	140-		1-2-6-5-6-2-2-2-2-1-3-3-2-2-				-3-	-	-	-	-	-							0.27
56-44.1208-109.6781-2-07-						0-W01105-07/05/77-19-			16-16.0-C		-	-	5.7-	130-		1-2-6-5-6-2-2-2-2-1-3-3-3-2-				-3-	-	-	-	-	-							0.30
56-44.1172-109.6814-2-07-						0-W01106-07/05/77-19-			16-12.0-C		-	-	5.7-	140-		1-2-6-5-6-2-2-2-2-1-3-3-2-2-				-3-	-	-	-	-	-							0.23
56-44.1169-109.6792-2-07-						0-W01107-07/05/77-19-			16-13.0-C		-	-	5.7-	140-		1-2-6-5-6-3-2-2-2-2-3-4-3-2-				-3-	-	-	-	-	-							0.15
56-44.1086-109.7175-2-07-						0-W01108-07/05/77-20-			12-11.0-		-	-	5.7-	160-		1-2-6-3-6-3-2-1-2-1-3-4-2-				-1-	-	-	-	-	-							0.22
56-44.1103-109.7189-2-07-						0-W01109-07/05/77-20-			12-11.0-		-	-	5.7-	140-		1-2-6-5-6-3-2-2-1-3-4-2-2-				-1-	-	-	-	-	-							0.02
56-44.1114-109.7175-2-07-						0-W01110-07/05/77-20-			12-11.0-		-	-	5.7-	100-		1-2-6-4-6-4-2-1-2-1-2-4-2-				-1-	-	-	-	-	-							0.78
56-44.1031-109.6361-2-07-						0-W01111-07/06/77- 5-			9-12.0-		-	-	5.7-	130-		1-2-6-4-6-2-2-2-1-4-2-2-1-				-3-	-	-	-	-	-							0.17
56-44.0978-109.6428-2-07-						0-W01112-07/06/77- 6-			10-12.0-		-	-	5.7-	150-		1-2-6-5-6-1-2-2-1-4-2-3-1-				-3-	-	-	-	-	-							0.13
56-44.0772-109.6453-2-07-						0-W01113-07/06/77- 7-			10-13.0-		-	-	5.7-	140-		1-2-6-4-6-2-2-1-2-2-2-2-1-				-3-	-	-	-	-	-							0.21
56-44.0686-109.6492-2-07-						0-W01114-07/06/77- 9-			10-12.0-		-	-	5.7-	140-		1-2-6-4-6-2-2-1-2-3-2-2-1-				-3-	-	-	-	-	-							0.14

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
							TIME SAMPLED																							
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (##) UNITS IN ppb
56-	44.0267-	109.6708-	2-	07-		0-W01115-	07/06/77-	8-	13-	10.0-	-	-	5.7-	60-	1-2-6-4-6-3-2-1-2-3-3-3-1-	-1-	-	-	-	-												0.04
56-	44.0281-	109.6775-	2-	07-		0-W01116-	07/06/77-	8-	13-	10.0-	-	-	5.7-	90-	-2-6-4-6-3-2-1-2-3-2-3-1-	-1-	-	-	-	-												0.04
56-	44.0264-	109.6769-	2-	07-		0-W01117-	07/06/77-	8-	13-	10.0-	-	-	5.7-	95-	1-2-6-4-6-3-2-1-2-3-2-3-1-	-1-	-	-	-	-												0.02
56-	44.4503-	109.5742-	2-	07-		0-W01118-	07/04/77-	20-	19-	10.0-	-	-	5.8-	60-	0-3-4-4-6-3-3-1-2-2-3-3-3-	-1-	-	-	-	-												0.06
56-	44.4703-	109.5778-	2-	07-		0-W01119-	07/04/77-	21-	18-	9.0-	-	-	5.6-	70-	0-3-6-3-6-3-2-1-2-3-2-2-2-	-1-	-	-	-	-												0.27
56-	44.4706-	109.5756-	2-	07-		0-W01120-	07/04/77-	21-	18-	9.0-	-	-	6.0-	70-	0-3-6-4-6-3-2-1-2-3-3-3-2-	-1-	-	-	-	-												0.85
56-	44.4886-	109.5686-	2-	07-		0-W01121-	07/04/77-	22-	16-	9.0-	-	-	6.1-	110-	0-3-6-4-6-2-2-1-2-3-3-3-2-	-1-	-	-	-	-												0.38
56-	44.5022-	109.5689-	2-	07-		0-W01122-	07/04/77-	22-	16-	9.0-	-	-	6.5-	150-	0-3-6-4-6-2-2-1-2-3-3-3-2-	-1-	-	-	-	-												0.56
56-	44.5022-	109.5722-	2-	07-		0-W01123-	07/04/77-	22-	16-	9.0-	-	-	5.7-	65-	0-3-6-4-6-2-2-1-2-3-3-3-2-	-1-	-	-	-	-												0.03
56-	44.2600-	109.5403-	2-	07-		0-W01124-	07/05/77-	9-	13-	11.0-	-	-	5.9-	80-	0-2-6-4-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.12
56-	44.2508-	109.5678-	2-	07-		0-W01125-	07/05/77-	10-	16-	10.0-	-	-	6.0-	70-	0-2-6-4-6-3-3-1-2-1-3-2-2-	-1-	-	-	-	-												0.40
56-	44.2525-	109.5683-	2-	07-		0-W01126-	07/05/77-	10-	16-	10.0-	-	-	6.0-	70-	1-2-6-4-6-3-3-1-2-1-3-2-2-	-1-	-	-	-	-												0.56
56-	44.2744-	109.6061-	2-	07-		0-W01127-	07/05/77-	11-	16-	10.0-	-	-	5.8-	65-	0-4-6-4-6-3-3-2-2-2-2-3-2-	-1-	-	-	-	-												0.10
56-	44.2753-	109.6200-	2-	07-		0-W01128-	07/05/77-	11-	19-	11.0-	-	-	5.6-	70-	0-4-6-4-6-3-3-1-2-3-3-4-2-	-1-	-	-	-	-												0.21
56-	44.2739-	109.6197-	2-	07-		0-W01129-	07/05/77-	11-	19-	11.0-	-	-	5.5-	75-	0-4-6-4-6-3-3-1-2-3-5-3-2-	-1-	-	-	-	-												0.09
56-	44.2439-	109.5964-	2-	07-		0-W01130-	07/05/77-	12-	21-	9.0-	-	-	6.2-	185-	0-4-6-3-6-4-2-2-2-1-3-4-2-	-1-	-	-	-	-												0.07
56-	44.2392-	109.6203-	2-	07-		0-W01131-	07/05/77-	12-	21-	10.0-	-	-	5.8-	65-	0-2-6-4-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.03
56-	44.2356-	109.6356-	2-	07-		0-W01132-	07/05/77-	13-	22-	10.0-	-	-	5.9-	55-	0-2-6-3-6-3-4-2-2-3-4-4-2-	-1-	-	-	-	-												0.29
56-	44.2411-	109.6378-	2-	07-		0-W01133-	07/05/77-	13-	22-	11.0-	-	-	5.9-	85-	0-2-6-4-6-3-3-1-2-3-3-2-2-	-1-	-	-	-	-												0.48
56-	44.2381-	109.6608-	2-	07-		0-W01134-	07/05/77-	14-	24-	12.0-	-	-	5.8-	60-	0-2-6-4-6-3-3-1-2-3-4-3-2-	-1-	-	-	-	-												0.05
56-	44.2350-	109.6803-	2-	07-		0-W01135-	07/05/77-	14-	20-	12.0-	-	-	5.8-	65-	0-3-6-4-6-4-3-1-2-4-3-3-2-	-1-	-	-	-	-												0.01
56-	44.2378-	109.6831-	2-	07-		0-W01136-	07/05/77-	14-	20-	12.0-	C-	-	5.8-	55-	0-3-6-4-6-2-3-1-1-3-3-4-2-	-1-	-	-	-	-												0.24
56-	44.2369-	109.6847-	2-	07-		0-W01137-	07/05/77-	14-	20-	12.0-	-	-	5.9-	60-	1-3-6-3-6-3-3-2-3-4-2-3-2-	-1-	-	-	-	-												0.52
56-	44.2203-	109.7017-	2-	07-		0-W01138-	07/05/77-	15-	19-	14.0-	-	-	6.2-	175-	0-3-6-2-6-3-2-2-2-3-4-4-2-	-1-	-	-	-	-												0.66
56-	44.2067-	109.7231-	2-	07-		0-W01139-	07/05/77-	15-	23-	14.0-	-	-	6.2-	180-	0-3-6-2-6-4-3-1-2-1-2-5-3-	-1-	-	-	-	-												0.43
56-	44.1939-	109.7400-	2-	07-		0-W01140-	07/05/77-	15-	20-	12.0-	-	-	6.3-	190-	0-3-6-4-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.48
56-	44.1958-	109.7425-	2-	07-		0-W01141-	07/05/77-	15-	20-	12.0-	-	-	6.3-	180-	0-3-6-2-6-3-2-1-2-3-2-4-3-	-1-	-	-	-	-												0.01
56-	44.2306-	109.7511-	2-	07-		0-W01142-	07/05/77-	16-	18-	11.0-	-	-	5.9-	60-	0-3-6-2-6-4-3-1-1-3-3-4-3-	-1-	-	-	-	-												0.01
56-	44.2275-	109.7506-	2-	07-		0-W01143-	07/05/77-	16-	18-	11.0-	-	-	5.9-	50-	0-3-6-4-6-2-3-1-1-1-3-2-2-	-1-	-	-	-	-												0.01
56-	44.2297-	109.7797-	2-	07-		0-W01144-	07/05/77-	16-	10-	10.0-	-	-	5.9-	140-	0-3-6-3-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.08
56-	44.0378-	109.6383-	2-	07-		0-W01145-	07/06/77-	20-	20-	11.0-	-	-	5.7-	100-	1-2-6-4-6-2-2-1-2-1-2-3-1-	-1-	-	-	-	-												0.26
56-	44.0389-	109.6461-	2-	07-		0-W01146-	07/06/77-	20-	16-	11.0-	-	-	5.7-	130-	1-2-6-4-6-2-3-1-2-3-2-3-1-	-1-	-	-	-	-												0.26
56-	44.0294-	109.6483-	2-	07-		0-W01147-	07/06/77-	20-	16-	11.0-	-	-	5.7-	120-	1-2-6-4-6-2-3-1-2-3-2-3-1-	-1-	-	-	-	-												2.13
56-	44.3756-	109.8681-	2-	07-		0-W01148-	07/04/77-	16-	24-	11.0-	-	-	6.0-	70-	0-2-7-2-7-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.07
56-	44.4153-	109.9097-	2-	07-		0-W01149-	07/04/77-	17-	22-	11.0-	-	-	5.9-	80-	0-2-7-2-7-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.52
56-	44.4631-	109.9011-	2-	07-		0-W01150-	07/04/77-	18-	22-	11.0-	-	-	6.0-	75-	0-2-7-3-4-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.02
56-	44.4478-	109.9222-	2-	07-		0-W01151-	07/04/77-	18-	22-	11.0-	-	-	6.0-	65-	0-2-7-2-7-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.39
56-	44.4050-	109.9653-	2-	07-		0-W01152-	07/04/77-	18-	22-	11.0-	-	-	6.2-	125-	0-2-7-2-7-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.17
56-	44.4042-	109.9639-	2-	07-		0-W01153-	07/04/77-	18-	22-	11.0-	-	-	6.2-	130-	0-2-7-2-7-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.22
56-	44.4050-	109.9833-	2-	07-		0-W01154-	07/04/77-	18-	22-	11.0-	-	-	5.9-	80-	0-2-7-3-4-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.54
56-	44.4042-	109.9825-	2-	07-		0-W01155-	07/04/77-	18-	22-	11.0-	-	-	6.2-	80-	0-2-7-2-7-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.56
56-	44.3942-	109.9669-	2-	07-		0-W01156-	07/04/77-	19-	21-	10.0-	-	-	6.3-	85-	0-2-7-3-7-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.23
56-	44.3906-	109.9714-	2-	07-		0-W01157-	07/04/77-	19-	21-	10.0-	-	-	6.2-	190-	0-2-7-2-7-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.18
56-	44.3903-	109.9694-	2-	07-		0-W01158-	07/04/77-	19-	21-	10.0-	-	-	5.9-	60-	0-2-7-3-4-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.71
56-	44.3742-	109.9969-	2-	07-		0-W01159-	07/04/77-	19-	21-	10.0-	-	-	5.7-	75-	0-2-1-3-1-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.06
56-	44.3739-	109.9939-	2-	07-		0-W01160-	07/04/77-	19-	21-	10.0-	-	-	5.7-	75-	0-2-1-3-1-3-3-1-2-1-3-3-2-	-1-	-	-	-	-												0.01
56-	44.3650-	109.5178-	2-	07-		0-W01161-	07/05/77-	7-	18-	8.0-	-	-	5.7-	100-	1-1-6-3-6-3-	-2-1-3-3-3-2-	-1-	-	-	-	-												0.01
56-	44.3622-	109.5186-	2-	07-		0-W01162-	07/05/77-	7-	18-	8.0-	-	-	5.7-	100-	1-2-6-3-6-3-2-1-2-3-3-2-2-	-1-	-	-	-	-												0.17
56-	44.3544-	109.5397-	2-	07-		0-W01163-	07/05/77-	9-	16-	9.0-	-	-	5.5-	90-	1-2-6-2-6-3-2-1-2-1-3-3-2-	-1-	-	-	-	-												0.01
56-	44.2911-	109.5375-	2-	07-		0-W01164-	07/05/77-	11-	14-	10.0-	-	-	5.7-	70-	1-2-6-1-6-3-2-1-1-3-2-4-2-	-1-	-	-	-	-												0.01
56-	44.2956-	109.5375-	2-	07-		0-W01165-	07/05/77-	11-	14-	10.0-	-	-	5.7-	160-	1-2-6-2-6-2-2-1-2-1-2-3-2-	-1-	-	-	-	-												0.48

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																													U CONCENTRATION
							TIME SAMPLED																													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb
56-44.2967-109.5361-2-07-						0-W01166-07/05/77-11-	14-	10.0-	-	-	-	-	5.7-	150-	1-2-6-3-6-3-3-1-2-2-2-2-2-	-1-	-	-	-	-													0.39
56-44.3108-109.5558-2-07-						0-W01167-07/05/77-12-	16-	10.0-	-	-	-	-	5.7-	60-	1-2-4-4-6-3-3-1-2-3-4-3-2-	-1-	-	-	-	-													0.01
56-44.3128-109.5519-2-07-						0-W01168-07/05/77-12-	16-	10.0-	-	-	-	-	5.7-	70-	1-2-6-4-6-2-2-1-2-3-3-3-2-	-1-	-	-	-	-													0.28
56-44.1658-109.6392-2-07-						0-W01169-07/05/77-15-	19-	13.0-	-	-	-	-	5.7-	60-	1-2-6-3-6-3-3-2-1-2-3-2-3-2-	-1-	-	-	-	-													0.33
56-44.1600-109.6742-2-07-						0-W01170-07/05/77-16-	19-	13.0-	-	-	-	-	5.7-	60-	1-2-6-2-6-2-2-1-2-3-3-2-2-	-1-	-	-	-	-													0.40
56-44.1583-109.7017-2-07-						0-W01171-07/05/77-16-	20-	10.0-	-	-	-	-	5.7-	60-	1-2-6-4-6-3-2-1-2-1-2-3-2-	-1-	-	-	-	-													0.20
56-44.1567-109.7022-2-07-						0-W01172-07/05/77-16-	20-	11.0-	-	-	-	-	5.7-	65-	1-2-6-2-6-2-2-1-2-4-2-3-2-	-1-	-	-	-	-													0.02
56-44.1875-109.5378-2-07-						0-W01173-07/06/77- 6-	16-	12.0-	-	-	-	-	5.7-	140-	1-2-6-2-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-													0.03
56-44.1667-109.5319-2-07-						0-W01174-07/06/77- 8-	17-	10.0-	-	-	-	-	5.7-	70-	1-2-6-1-6-3-3-1-2-1-4-3-1-	-1-	-	-	-	-													0.01
56-44.1658-109.5261-2-07-						0-W01175-07/06/77- 9-	16-	10.0-	-	-	-	-	5.7-	20-	1-2-6-1-6-3-3-1-2-1-4-3-1-	-1-	-	-	-	-													0.01
56-44.1647-109.5272-2-07-						0-W01176-07/06/77- 9-	19-	10.0-	-	-	-	-	5.7-	70-	1-2-6-1-6-3-3-1-2-1-4-3-1-	-1-	-	-	-	-													0.01
56-44.1244-109.5211-2-07-						0-W01177-07/06/77-11-	22-	9.0-	-	-	-	-	5.7-	160-	1-2-6-3-6-3-3-1-2-1-4-4-1-	-1-	-	-	-	-													0.22
56-44.1225-109.5181-2-07-						0-W01178-07/06/77-11-	22-	9.0-	-	-	-	-	5.7-	160-	1-2-6-3-6-3-3-1-2-1-4-3-1-	-1-	-	-	-	-													0.26
56-44.0106-109.6781-2-07-						0-W01179-07/06/77- 9-	12-	9.0-	-	-	-	-	5.7-	100-	1-2-6-2-6-2-2-1-2-3-4-2-1-	-1-	-	-	-	-													0.21
56-44.0022-109.6886-2-07-						0-W01180-07/06/77- 9-	14-	12.0-	-	-	-	-	5.7-	100-	1-2-6-3-6-3-3-1-2-1-2-3-1-	-1-	-	-	-	-													0.22
56-44.1156-109.5658-2-07-						0-W01181-07/06/77-12-	20-	12.0-	-	-	-	-	5.7-	130-	1-2-6-3-6-3-2-1-2-1-2-3-1-	-1-	-	-	-	-													0.25
56-44.1156-109.5678-2-07-						0-W01182-07/06/77-12-	20-	12.0-	-	-	-	-	5.7-	130-	1-2-6-3-6-3-2-1-2-1-2-3-1-	-1-	-	-	-	-													0.06
56-44.0319-109.5836-2-07-						0-W01183-07/06/77-18-	16-	11.0-	-	-	-	-	5.7-	160-	1-2-6-1-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-													0.79
56-44.0128-109.5708-2-07-						0-W01184-07/06/77-19-	14-	9.0-	-	-	-	-	5.7-	60-	1-2-6-2-6-3-2-1-2-1-5-4-1-	-1-	-	-	-	-													0.76
56-44.9458-109.9178-2-07-						0-W01185-07/02/77-12-	10-	11.0-	-	-	-	-	5.7-	75-	3-2-7-1-7-3-3-1-2-1-4-5-4-	-1-	-	-	-	-													0.35
56-44.9486-109.8944-2-07-						0-W01186-07/02/77-13-	10-	13.0-	-	-	-	-	6.7-	270-	0-2-7-1-7-3-3-1-2-1-4-5-4-	-1-	-	-	-	-													0.41
56-44.9481-109.8800-2-07-						0-W01187-07/02/77-13-	10-	12.4-	-	-	-	-	6.7-	256-	-2-7-1-1-3-3-1-2-1-4-5-4-	-1-	-	-	-	-													0.66
56-44.9528-109.8806-2-07-						0-W01188-07/02/77-13-	11-	12.5-	-	-	-	-	6.2-	175-	0-2-7-2-7-3-3-1-2-1-4-5-4-	-1-	-	-	-	-													0.42
56-44.9519-109.8586-2-07-						0-W01189-07/02/77-14-	12-	13.5-	-	-	-	-	6.4-	170-	0-2-7-2-7-3-3-1-2-1-4-5-4-	-1-	-	-	-	-													0.22
56-44.9558-109.8394-2-07-						0-W01190-07/02/77-15-	10-	12.5-	-	-	-	-	6.8-	450-	0-2-7-3-6-3-3-1-2-1-4-5-4-	-1-	-	-	-	-													0.91
56-44.9533-109.8267-2-07-						0-W01191-07/02/77-15-	10-	12.5-	-	-	-	-	6.8-	460-	0-2-7-3-6-3-3-1-2-1-4-5-4-	-1-	-	-	-	-													1.45
56-44.9569-109.8297-2-07-						0-W01192-07/02/77-15-	10-	11.0-	-	-	-	-	5.4-	75-	0-2-7-2-6-3-3-1-2-1-3-5-4-	-1-	-	-	-	-													0.23
56-44.6558-109.6050-2-07-						0-W01193-07/03/77-11-	27-	13.0-	-	-	-	-	5.7-	220-	1-1-6-2-6-3-2-1-2-1-2-4-2-	-1-	-	-	-	-													0.73
56-44.6561-109.6089-2-07-						0-W01194-07/03/77-11-	27-	13.0-	-	-	-	-	6.1-	200-	1-1-6-2-6-3-2-1-2-1-4-4-2-	-1-	-	-	-	-													1.06
56-44.8961-109.7128-2-07-						0-W01195-07/03/77- 8-	8-	11.0-	-	-	-	-	7.0-	270-	1-1-6-3-6-3-3-1-2-1-3-3-3-	-1-	-	-	-	-													0.58
56-44.8703-109.6158-2-07-						0-W01196-07/02/77-10-	18-	13.0-	-	-	-	-	6.6-	285-	1-1-6-3-6-3-3-1-2-1-4-3-3-	-1-	-	-	-	-													0.01
56-44.8703-109.5381-2-07-						0-W01197-07/02/77-11-	19-	11.0-	-	-	-	-	6.5-	270-	1-1-6-3-6-3-3-1-2-1-4-3-4-	-1-	-	-	-	-													0.06
56-44.8683-109.5111-2-07-						0-W01198-07/02/77-11-	18-	13.0-	-	-	-	-	6.6-	270-	1-1-6-3-6-3-3-1-2-1-4-3-4-	-1-	-	-	-	-													0.01
56-44.8536-109.4858-2-07-						0-W01199-07/02/77-12-	19-	11.0-	-	-	-	-	6.6-	285-	1-1-6-3-6-3-3-1-2-1-4-3-4-	-1-	-	-	-	-													0.01
56-44.8469-109.4631-2-07-						0-W01200-07/02/77-13-	19-	12.0-	-	-	-	-	6.6-	270-	1-1-6-3-6-3-3-1-2-1-4-3-4-	-1-	-	-	-	-													0.03
56-44.8283-109.4403-2-07-						0-W01201-07/02/77-14-	19-	1.2-	-	-	-	-	6.5-	280-	1-1-6-4-3-3-3-1-2-1-4-3-4-	-1-	-	-	-	-													0.04
56-44.8253-109.4297-2-07-						0-W01202-07/02/77-15-	21-	11.0-	-	-	-	-	6.6-	285-	1-1-6-4-3-3-3-1-2-1-4-3-4-	-1-	-	-	-	-													0.02
56-44.8206-109.4211-2-07-						0-W01203-07/02/77-15-	23-	14.0-	-	-	-	-	6.5-	285-	1-1-6-4-3-3-3-1-2-1-4-3-4-	-1-	-	-	-	-													0.05
56-44.8111-109.4072-2-07-						0-W01204-07/02/77-16-	24-	12.0-	-	-	-	-	6.5-	290-	1-1-6-3-4-3-3-3-1-2-1-3-3-	-1-	-	-	-	-													0.07
56-44.7814-109.3642-2-07-						0-W01205-07/02/77-19-	20-	11.0-	-	-	-	-	6.5-	280-	1-1-6-1-6-2-3-1-3-1-4-2-4-	-1-	-	-	-	-													0.03
56-44.7681-109.3964-2-07-						0-W01206-07/02/77-19-	20-	11.0-	-	-	-	-	6.7-	285-	1-1-6-1-6-2-3-1-3-1-4-2-4-	-1-	-	-	-	-													0.05
56-44.7197-109.4031-2-06-						0-W01207-07/03/77-19-	14-	11.5-	-	-	-	-	6.8-	700-	0-2-1-4-6-3-3-1-2-1-4-3-3-	-1-	-	-	-	-													0.02
56-44.7167-109.4825-2-07-						0-W01208-07/03/77-12-	18-	12.5-	-	-	-	-	6.5-	700-	0-2-7-2-7-4-4-4-2-1-4-3-3-	-1-	-	-	-	-													0.08
56-44.7036-109.4867-2-07-						0-W01209-07/03/77-13-	18-	12.0-	-	-	-	-	6.8-	685-	1-2-7-2-7-4-4-4-2-1-4-3-3-	-1-	-	-	-	-													0.69
56-44.7314-109.4303-2-07-						0-W01210-07/03/77-16-	16-	11.5-	-	-	-	-	6.8-	700-	0-2-7-2-7-4-4-4-2-1-4-3-3-	-1-	-	-	-	-													0.16
56-44.5175-109.3764-2-07-						0-W01211-07/04/77- 6-	16-	10.0-	-	-	-	-	6.5-	150-	1-3-6-2-6-3-3-1-2-3-4-3-2-	-1-	-	-	-	-													0.01
56-44.5189-109.3733-2-07-						0-W01212-07/04/77- 6-	16-	10.0-	-	-	-	-	6.5-	145-	1-3-6-4-6-2-2-3-3-3-4-3-3-	-1-	-	-	-	-													0.71
56-44.5264-109.3772-2-07-						0-W01213-07/04/77- 7-	15-	10.0-	-	-	-	-	6.6-	150-	0-3-6-4-6-3-2-1-2-3-3-3-4-	-1-	-	-	-	-													0.15
56-44.5344-109.3839-2-07-						0-W01214-07/04/77- 7-	17-	11.0-	-	-	-	-	6.5-	150-	1-3-6-3-6-3-3-1-2-1-2-2-3-	-1-	-	-	-	-													0.35
56-44.5433-109.3856-2-07-						0-W01215-07/04/77- 8-	17-	9.0-	-	-	-	-	6.5-	150-	1-3-6-3-6-3-3-1-2-1-4-4-3-	-1-	-	-	-	-													0.23
56-44.5450-109.3814-2-07-						0-W01216-07/04/77- 8-	16-	10.0-	-	-	-	-	6.6-	150-	1-3-6-3-6-3-2-1-2-3-3-3-3-	-1-	-	-	-	-													0.36

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (##) UNITS IN ppb
56-44.5631-109.4392-2-07-						0-W01217-07/04/77-10-	21-	12.0-	-	-			6.5-	145-	1-3-6-3-6-3-3-1-2-3-5-3-3-													-1-	-	-	-	-	0.29
56-44.5639-109.4358-2-07-						0-W01218-07/04/77-10-	21-	11.0-	-	-			6.1-	110-	1-3-6-3-6-3-2-1-2-3-3-2-4-													-1-	-	-	-	-	0.01
56-44.5703-109.4342-2-07-						0-W01219-07/04/77-10-	22-	11.0-	-	-			5.8-	60-	1-3-6-3-6-2-2-1-2-1-3-2-3-													-1-	-	-	-	-	0.01
56-44.5786-109.4364-2-07-						0-W01220-07/04/77-10-	21-	9.0-	-	-			5.8-	80-	0-3-6-2-6-2-2-1-2-3-3-2-3-													-1-	-	-	-	-	0.01
56-44.5994-109.4397-2-07-						0-W01221-07/04/77-11-	23-	12.0-	-	-			5.7-	68-	1-3-6-3-6-3-3-1-1-3-3-1-3-													-1-	-	-	-	-	0.23
56-44.6047-109.4361-2-07-						0-W01222-07/04/77-11-	21-	12.0-	-	-			6.3-	120-	1-3-6-3-6-2-2-2-1-3-2-2-3-													-1-	-	-	-	-	0.16
56-44.6119-109.4333-2-07-						0-W01223-07/04/77-12-	20-	10.0-	-	-			6.0-	70-	0-3-6-3-6-3-3-2-2-1-3-3-3-													-1-	-	-	-	-	0.03
56-44.6158-109.4314-2-07-						0-W01224-07/04/77-12-	20-	10.0-	-	-			6.1-	110-	1-3-6-3-6-2-3-2-2-1-4-3-3-													-1-	-	-	-	-	0.95
56-44.6489-109.4264-2-07-						0-W01225-07/04/77-11-	24-	11.0-	-	-			5.7-	65-	0-3-6-4-6-3-3-1-2-1-3-3-2-													-1-	-	-	-	-	0.43
56-44.5117-109.4347-2-07-						0-W01226-07/04/77-13-	26-	10.0-	-	-			6.2-	180-	0-3-4-2-6-3-2-1-2-2-3-3-3-													-1-	-	-	-	-	0.52
56-44.5119-109.4214-2-06-						0-W01227-07/04/77-13-	25-	10.0-	-	-			5.6-	70-	1-3-4-2-6-3-2-1-3-5-3-3-3-													-1-	-	-	-	-	0.17
56-44.5094-109.5131-2-07-						0-W01228-07/04/77-15-	25-	10.0-	-	-			5.6-	20-	0-3-4-4-6-3-3-1-2-4-4-3-3-													-1-	-	-	-	-	0.66
56-44.5100-109.5172-2-07-						0-W01229-07/04/77-15-	25-	10.0-	-	-			6.0-	70-	0-3-4-4-6-2-2-1-2-1-3-3-3-													-1-	-	-	-	-	0.57
56-44.4253-109.5050-2-07-						0-W01230-07/04/77-17-	24-	9.0-	-	-			6.5-	70-	0-3-6-3-6-3-3-1-2-1-3-4-3-													-1-	-	-	-	-	0.49
56-44.4286-109.5269-2-07-						0-W01231-07/04/77-18-	20-	10.0-	-	-			6.5-	150-	0-3-6-3-6-3-3-1-2-1-3-4-3-													-1-	-	-	-	-	0.31
56-44.4283-109.5289-2-07-						0-W01232-07/04/77-18-	20-	10.0-	-	-			6.5-	150-	1-3-6-3-6-3-3-1-2-1-3-4-3-													-1-	-	-	-	-	0.19
56-44.0442-109.2444-2-07-						0-W01233-07/08/77-	8-	17-	7.0-	-	-		6.1-	140-	1-1-6-3-6-3-3-1-2-2-3-3-1-													-1-	-	-	-	-	0.51
56-44.0267-109.2617-2-07-						0-W01234-07/08/77-	8-	17-	9.0-	-	-		6.1-	140-	1-1-6-3-6-3-3-1-2-2-2-3-1-													-1-	-	-	-	-	0.61
56-44.0172-109.2531-2-07-						0-W01235-07/08/77-	8-	17-	8.0-	-	-		6.3-	150-	1-1-6-2-6-2-3-1-2-2-2-2-1-													-1-	-	-	-	-	0.25
56-44.0061-109.2519-2-07-						0-W01236-07/08/77-	8-	16-	9.0-	-	-		6.1-	130-	1-1-6-3-6-3-3-1-2-1-2-3-1-													-1-	-	-	-	-	0.01
56-44.0458-109.2575-2-07-						0-W01237-07/08/77-	9-	18-	10.0-	-	-		6.1-	140-	1-1-6-4-6-3-3-1-2-1-4-3-1-													-1-	-	-	-	-	0.82
56-44.0431-109.2597-2-07-						0-W01238-07/08/77-	9-	18-	9.0-	-	-		6.1-	140-	1-1-6-4-6-4-2-1-2-1-4-3-1-													-1-	-	-	-	-	0.34
56-44.0486-109.3436-2-07-						0-W01239-07/08/77-10-	20-	10.0-	-	-			6.1-	120-	1-1-6-3-6-3-2-1-2-1-2-2-1-													-1-	-	-	-	-	0.01
56-44.0183-109.3392-2-07-						0-W01240-07/08/77-10-	18-	9.0-	-	-			6.3-	110-	1-1-6-4-6-3-3-1-3-1-3-3-1-													-1-	-	-	-	-	0.15
56-44.0186-109.3433-2-07-						0-W01241-07/08/77-10-	20-	10.0-	-	-			6.1-	120-	1-1-6-4-6-3-2-1-2-1-3-3-1-													-1-	-	-	-	-	0.61
56-44.0036-109.3428-2-07-						0-W01242-07/08/77-10-	20-	11.0-	-	-			6.3-	110-	1-1-6-3-6-2-3-1-2-1-3-3-1-													-1-	-	-	-	-	0.41
56-44.0028-109.3472-2-07-						0-W01243-07/08/77-10-	20-	11.0-	-	-			6.1-	120-	1-1-6-3-6-3-3-1-2-1-4-3-1-													-1-	-	-	-	-	0.02
56-44.0414-109.4075-2-07-						0-W01244-07/08/77-12-	24-	13.0-	-	-			6.3-	260-	1-1-6-4-6-2-2-2-3-4-3-2-1-													-1-	-	-	-	-	0.23
56-44.0472-109.4189-2-07-						0-W01245-07/08/77-12-	24-	10.0-	-	-			5.9-	90-	1-1-6-3-6-3-3-1-2-1-4-3-1-													-1-	-	-	-	-	0.01
56-44.0467-109.4308-2-07-						0-W01246-07/08/77-12-	24-	11.0-	-	-			6.1-	80-	1-1-6-4-6-4-3-1-2-1-4-4-1-													-1-	-	-	-	-	0.18
56-44.0744-109.4447-2-07-						0-W01247-07/08/77-12-	26-	13.0-	-	-			6.3-	260-	1-1-6-4-6-2-3-1-3-3-3-2-1-													-1-	-	-	-	-	0.57
56-44.0539-109.4917-2-07-						0-W01248-07/08/77-13-	24-	12.0-	-	-			6.1-	250-	1-1-6-4-6-2-2-1-2-1-2-3-1-													-1-	-	-	-	-	0.28
56-44.0511-109.4933-2-07-						0-W01249-07/08/77-13-	24-	12.0-	-	-			6.3-	260-	1-1-6-4-6-2-2-1-2-1-2-3-1-													-1-	-	-	-	-	0.15
56-44.0500-109.4883-2-07-						0-W01250-08/08/77-13-	24-	12.0-	-	-			6.3-	260-	1-1-6-4-6-2-3-1-2-1-3-2-1-													-1-	-	-	-	-	0.05
56-44.0922-109.4594-2-07-						0-W01251-07/08/77-14-	26-	10.0-	-	-			5.9-	90-	1-1-6-3-6-4-3-2-2-1-4-4-1-													-1-	-	-	-	-	0.35
56-44.0903-109.4631-2-07-						0-W01252-07/08/77-14-	26-	9.0-	-	-			6.1-	95-	1-1-6-4-6-3-2-1-2-3-5-3-1-													-1-	-	-	-	-	0.01
56-44.1017-109.4306-2-07-						0-W01253-07/08/77-15-	24-	8.0-	-	-			6.1-	120-	1-1-6-4-6-2-2-1-2-1-3-3-1-													-1-	-	-	-	-	0.26
56-44.1161-109.4303-2-07-						0-W01254-07/08/77-15-	29-	11.0-	-	-			5.9-	85-	1-1-6-3-6-3-3-1-2-3-3-3-1-													-1-	-	-	-	-	0.52
56-44.1025-109.4003-2-07-						0-W01255-07/08/77-15-	24-	11.0-	-	-			5.9-	90-	1-1-6-4-6-3-3-1-2-1-3-3-1-													-1-	-	-	-	-	0.60
56-44.1044-109.3964-2-07-						0-W01256-07/08/77-15-	22-	10.0-	-	-			5.9-	85-	1-1-6-4-6-3-2-1-2-1-3-2-1-													-1-	-	-	-	-	0.52
56-44.1392-109.3725-2-07-						0-W01257-07/08/77-16-	26-	12.0-	-	-			6.3-	220-	1-1-6-4-6-2-2-1-2-3-3-2-1-													-1-	-	-	-	-	0.69
56-44.1644-109.3869-2-07-						0-W01258-07/08/77-17-	20-	9.0-	-	-			6.3-	260-	1-1-6-4-6-3-2-1-2-4-3-3-1-													-1-	-	-	-	-	0.52
56-44.1631-109.3894-2-07-						0-W01259-07/08/77-17-	20-	10.0-	-	-			6.3-	260-	1-1-6-4-6-2-2-1-2-4-3-3-1-													-1-	-	-	-	-	0.93
56-44.1158-109.3494-2-07-						0-W01260-07/08/77-18-	18-	11.0-	-	-			6.3-	260-	1-1-6-4-6-2-3-1-2-2-4-3-1-													-1-	-	-	-	-	0.56
56-44.0883-109.4042-2-07-						0-W01261-07/08/77-	9-	16-	9.0-	-	-		6.3-	260-	1-1-6-4-6-3-2-1-2-2-3-2-1-													-1-	-	-	-	-	0.05
56-44.0703-109.4133-2-07-						0-W01262-07/08/77-	9-	16-	10.0-	-	-		5.9-	90-	1-1-6-3-6-3-2-1-2-1-4-3-1-													-1-	-	-	-	-	0.22
56-44.0219-109.4469-2-07-						0-W01263-07/08/77-10-	18-	10.0-	-	-			6.1-	120-	1-1-6-3-6-2-3-1-2-1-3-3-1-													-1-	-	-	-	-	0.18
56-44.0247-109.4292-2-07-						0-W01264-07/08/77-10-	18-	11.0-	-	-			5.9-	100-	1-1-6-4-6-3-4-1-2-2-3-1-1-													-1-	-	-	-	-	0.01
56-44.0025-109.4089-2-07-						0-W01265-07/04/77-11-	17-	7.0-	-	-			6.1-	140-	1-1-6-3-6-3-3-1-2-1-4-3-1-													-1-	-	-	-	-	0.02
56-44.3631-109.8736-2-07-						0-W01266-07/27/77-11-	18-	12.0-	-	-			5.5-	60-	1-3-6-4-6-3-3-1-2-1-3-3-1-													-1-	-	-	-	-	0.38
56-44.3611-109.8739-2-07-						0-W01267-07/27/77-11-	18-	12.0-	-	-			5.5-	60-	1-3-6-3-6-3-3-1-2-1-3-3-1-													-1-	-	-	-	-	0.17

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																													U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (††) UNITS IN ppb
56-44.3533-109.8700-2-07-						0-W01268-07/27/77-11-	18-12.0-		-	-	5.5-	50-		1-3-6-3-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-															0.15
56-44.3611-109.6944-2-07-						0-W01269-07/27/77-11-	18-12.0-		-	-	5.7-	90-		1-2-6-4-8-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															0.17
56-44.3653-109.6908-2-07-						0-W01270-07/27/77-12-	18-10.0-		-	-	5.5-	50-		1-1-6-3-6-2-3-1-2-1-3-4-1-	-1-	-	-	-	-															0.25
56-44.3494-109.6944-2-07-						0-W01272-07/27/77-12-	19-10.0-		-	-	6.1-	240-		1-1-6-4-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-															0.47
56-44.3489-109.6969-2-07-						0-W01273-07/27/77-12-	19-11.0-		-	-	5.7-	115-		1-1-6-3-6-4-3-1-2-1-4-3-1-	-1-	-	-	-	-															0.19
56-44.3428-109.7025-2-07-						0-W01274-07/27/77-13-	19-10.0-		-	-	5.7-	115-		1-1-6-3-8-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															0.01
56-44.3386-109.7008-2-07-						0-W01275-07/27/77-13-	19-12.0-		-	-	6.3-	240-		1-1-6-3-6-3-2-1-2-1-2-3-1-	-1-	-	-	-	-															0.01
56-44.3472-109.9111-2-07-						0-W01276-07/27/77-11-	18-12.0-		-	-	5.5-	50-		1-3-7-3-7-3-3-1-2-1-3-3-1-	-1-	-	-	-	-															0.01
56-44.3294-109.8789-2-07-						0-W01278-07/27/77-12-	22-12.0-		-	-	5.7-	90-		1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-															0.19
56-44.3253-109.8778-2-07-						0-W01279-07/27/77-12-	22-12.0-		-	-	5.7-	90-		1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-															0.44
56-44.3167-109.7178-2-07-						0-W01280-07/27/77-16-	19-13.0-		-	-	6.1-	250-		1-1-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															0.07
56-44.3078-109.7231-2-07-						0-W01281-07/27/77-16-	19-13.0-		-	-	5.8-	115-		1-1-6-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															0.01
56-44.3086-109.7161-2-07-						0-W01282-07/27/77-14-	17-11.0-		-	-	6.1-	250-		1-1-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															0.05
56-44.3078-109.7178-2-07-						0-W01283-07/27/77-17-	16-11.0-		-	-	6.1-	250-		1-1-6-4-6-3-2-1-2-1-3-2-1-	-1-	-	-	-	-															0.01
56-44.2864-109.7272-2-07-						0-W01284-07/27/77-17-	16-10.0-		-	-	5.7-	250-		1-1-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															0.01
56-44.2781-109.7458-2-07-						0-W01285-07/27/77-17-	16-11.0-		-	-	5.5-	50-		1-1-6-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															0.03
56-44.2772-109.7442-2-07-						0-W01286-07/27/77-18-	15-10.0-		-	-	5.5-	50-		1-1-6-4-6-3-2-1-2-1-3-4-1-	-1-	-	-	-	-															0.60
56-44.9728-109.7292-2-07-						0-W01287-07/31/77- 8-	14- 9.0-		-	-	6.5-	320-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-															1.23
56-44.9744-109.7319-2-07-						0-W01288-07/31/77- 8-	14- 9.0-		-	-	6.3-	300-		1-3-1-3-6-3-2-1-3-1-3-3-1-	-1-	-	-	-	-															0.89
56-44.9919-109.7372-2-07-						0-W01289-07/31/77- 8-	14-11.0-		-	-	5.9-	25-		1-3-1-3-6-3-2-1-2-3-3-3-1-	-1-	-	-	-	-															0.01
56-44.9750-109.6386-2-07-						0-W01291-07/31/77- 9-	16-12.0-		-	-	5.9-	85-		1-3-1-4-6-4-3-1-2-1-3-4-1-	-1-	-	-	-	-															0.32
56-44.9856-109.6369-2-07-						0-W01292-07/31/77- 9-	16-11.0-		-	-	5.9-	90-		1-3-1-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															0.80
56-44.9878-109.6431-2-07-						0-W01293-07/31/77- 9-	15-10.0-		-	-	5.9-	75-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-															0.37
56-44.9539-109.5875-2-07-						0-W01294-07/31/77-10-	17-10.0-		-	-	6.1-	210-		1-3-1-3-6-4-2-1-2-1-3-4-1-	-1-	-	-	-	-															0.73
56-44.9683-109.5939-2-07-						0-W01295-07/31/77-10-	18-10.0-		-	-	6.5-	320-		1-3-1-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															1.07
56-44.9681-109.5986-2-07-						0-W01296-07/31/77-10-	17-11.0-		-	-	6.5-	290-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-															1.00
56-44.9800-109.5892-2-07-						0-W01297-07/31/77-10-	17-12.0-		-	-	6.1-	210-		1-3-1-3-6-3-2-1-2-3-3-3-1-	-1-	-	-	-	-															0.61
56-44.9683-109.5578-2-07-						0-W01298-07/31/77-11-	16-11.0-		-	-	5.7-	80-		1-3-1-3-6-3-3-1-2-1-4-4-1-	-1-	-	-	-	-															0.62
56-44.9669-109.5497-2-07-						0-W01299-07/31/77-11-	16-12.0-		-	-	6.1-	200-		1-3-1-4-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-															0.25
56-44.9606-109.5386-2-07-						0-W01300-07/31/77-11-	18-10.0-		-	-	6.1-	210-		1-3-1-3-6-3-2-1-2-3-2-3-1-	-1-	-	-	-	-															0.85
56-44.9328-109.5086-2-07-						0-W01301-07/31/77-12-	13-12.0-		-	-	5.7-	80-		1-3-1-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															0.01
56-44.9297-109.5042-2-07-						0-W01302-07/31/77-12-	16-12.0-		-	-	5.7-	95-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-															0.02
56-44.9947-109.4981-2-07-						0-W01303-07/31/77-13-	18-11.0-		-	-	6.3-	180-		1-3-1-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															0.25
56-44.9922-109.4933-2-07-						0-W01304-07/31/77-13-	16-12.0-		-	-	6.3-	190-		1-3-1-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-															1.14
56-44.9056-109.4836-2-07-						0-W01305-07/31/77-13-	15-13.0-		-	-	5.7-	80-		1-3-1-3-6-3-2-1-2-1-4-4-1-	-1-	-	-	-	-															0.37
56-44.9081-109.4811-2-07-						0-W01306-07/31/77-13-	15-12.0-		-	-	6.1-	80-		1-3-1-3-6-3-2-1-2-1-3-4-1-	-1-	-	-	-	-															0.01
56-44.9181-109.4653-2-07-						0-W01307-07/31/77-13-	16-12.0-		-	-	5.7-	90-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-															0.01
56-44.9208-109.4617-2-07-						0-W01308-07/31/77-13-	16-11.0-		-	-	5.7-	80-		1-3-1-3-6-3-2-1-2-3-3-4-1-	-1-	-	-	-	-															0.06
56-44.9147-109.4394-2-07-						0-W01309-07/31/77-13-	14-12.0-		-	-	5.7-	70-		1-3-1-3-6-3-2-1-2-2-3-4-1-	-1-	-	-	-	-															0.49
56-44.9583-109.4364-2-07-						0-W01310-07/31/77-14-	18-12.0-		-	-	5.7-	80-		1-3-1-3-6-3-2-1-2-3-1-2-3-1-	-1-	-	-	-	-															0.02
56-44.9567-109.4408-2-07-						0-W01311-07/31/77-14-	16-11.0-C-		-	-	5.7-	90-		1-3-1-3-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-															0.54
56-44.9489-109.4589-2-07-						0-W01312-07/31/77-14-	18-11.0-C-		-	-	5.7-	90-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-															0.05
56-44.9383-109.4733-2-07-						0-W01313-07/31/77-14-	17-11.0-C-		-	-	6.5-	310-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-															0.99

APPENDIX I-B

Listings of Field Data and Elemental Concentrations
for Sediment Samples from the Cody Quadrangle, Wyoming
(Pages 18 through 133)

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

① - Lists field data and uranium concentrations determined by delayed-neutron counting.
② - Lists concentrations of 14 elements determined by x-ray fluorescence and arc-source emission spectrography.
③ and ④ - List concentrations of 31 elements determined by neutron activation analysis and computed U/Th ratios.

(See Appendix II-B for Code to Listings)

APPENDIX I-B. Elemental Concentrations for Sediment Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.3511-108.0764-2-15-						0-W00002-06/12/76- 7-			15-		-	-	-	-	-	15-1-6-5-6-	-1-	-3-4-1-3-3-	-1-	-	-	-	-	-								3.00
56-44.3536-108.0811-2-15-						0-W00003-06/12/76- 8-			16-		-	-	-	-	-	18-1-6-5-5-	-1-	-3-4-1-1-3-	-1-	-	-	-	-	-								2.50
56-44.3178-108.0783-2-15-						0-W00004-06/12/76- 8-			19-		-	-	-	-	-	12-1-6-5-6-	-1-	-3-4-1-2-2-	-1-	-	-	-	-	-								2.90
56-44.3025-108.0822-2-15-						0-W00005-06/12/76- 9-			19-		-	-	-	-	-	6-1-1-4-6-	-1-	-3-4-1-2-2-	-1-	-	-	-	-	-								2.70
56-44.2767-108.1797-2-15-						0-W00006-06/12/76-10-			23-		-	-	-	-	-	12-1-4-4-6-	-1-	-3-4-1-3-2-	-1-	-	-	-	-	-								2.60
56-44.2719-108.1058-2-15-						0-W00007-06/12/76-10-			23-		-	-	-	-	-	12-1-1-4-5-	-1-	-3-4-1-2-2-	-1-	-	-	-	-	-								2.70
56-44.2675-108.1056-2-15-						0-W00008-06/12/76-11-			22-		-	-	-	-	-	18-1-6-4-5-	-1-	-3-4-1-2-2-	-1-	-	-	-	-	-								2.50
56-44.2694-108.1075-2-15-						0-W00009-06/12/76-11-			23-		-	-	-	-	-	14-1-6-4-6-	-1-	-3-4-1-2-2-	-1-	-	-	-	-	-								3.00
56-44.2739-108.0756-2-15-						0-W00010-06/12/76-11-			22-		-	-	-	-	-	11-1-1-4-4-	-1-	-3-4-1-2-2-	-1-	-	-	-	-	-								3.40
56-44.2781-108.0511-2-15-						0-W00011-06/12/76-12-			22-		-	-	-	-	-	12-1-6-5-4-	-1-	-3-4-1-3-2-	-1-	-	-	-	-	-								2.50
56-44.3028-108.0547-2-15-						0-W00012-06/12/76-12-			23-		-	-	-	-	-	10-1-1-4-6-	-1-	-3-4-1-1-2-	-1-	-	-	-	-	-								4.20
56-44.2614-108.0356-2-15-						0-W00013-06/12/76-13-			13-		-	-	-	-	-	10-1-6-5-6-	-1-	-3-4-2-2-2-	-1-	-	-	-	-	-								3.20
56-44.3844-108.0578-2-15-						0-W00014-06/12/76-14-			23-		-C-	-	-	-	-	15-1-6-5-6-	-1-	-3-4-2-3-2-	-9-	-	-	-	-	-								3.60
56-44.4072-108.0658-2-15-						0-W00015-06/12/76-15-			24-		-	-	-	-	-	15-1-6-5-5-	-1-	-3-4-2-2-2-	-1-	-	-	-	-	-								3.60
56-44.4278-108.0703-2-15-						0-W00016-06/12/76-16-			23-		-	-	-	-	-	9-1-6-5-6-	-1-	-3-4-1-2-2-	-1-	-	-	-	-	-								3.30
56-44.4297-108.0683-2-15-						0-W00017-06/12/76-16-			24-		-	-	-	-	-	11-1-6-4-6-	-1-	-3-4-2-2-2-	-1-	-	-	-	-	-								3.40
56-44.4214-108.1167-2-15-						0-W00018-06/12/76-15-			23-		-	-	-	-	-	17-1-1- -6-	-1-	-3-4-2-2-2-	-1-	-	-	-	-	-								3.50
56-44.4133-108.1472-2-15-						0-W00019-06/12/76-17-			24-		-	-	-	-	-	11-1-6-5-6-	-1-	-3-4-3-2-2-	-1-	-	-	-	-	-								2.80
56-44.4158-108.2050-2-15-						0-W00021-06/14/76-13-			7-		-	-	-	-	-	4-1-6-5-6-	-1-	-3-4-2-3-4-	-1-	-	-	-	-	-								4.60
56-44.4233-108.1894-2-15-						0-W00022-06/14/76-13-			7-		-	-	-	-	-	17-1-6-5-6-	-1-	-3-4-1-2-4-	-1-	-	-	-	-	-								3.20
56-44.4269-108.1633-2-15-						0-W00023-06/14/76-13-			14-		-	-	-	-	-	12-1-1-5-1-	-1-	-3-4-3-3-3-	-1-	-	-	-	-	-								3.40
56-44.4297-108.1428-2-15-						0-W00024-06/14/76-13-			6-		-	-	-	-	-	6-1-6-5-5-	-1-	-3-4-1-3-4-	-1-	-	-	-	-	-								4.40
56-44.4364-108.1250-2-15-						0-W00025-06/14/76-14-			7-		-	-	-	-	-	17-1-6-5-6-	-1-	-3-4-2-3-4-	-1-	-	-	-	-	-								4.60
56-44.4428-108.1156-2-15-						0-W00026-06/14/76-14-			7-		-	-	-	-	-	17-1-6-5-6-	-1-	-3-4-2-3-4-	-1-	-	-	-	-	-								4.10
56-44.4514-108.1022-2-15-						0-W00027-06/14/76-14-			7-		-	-	-	-	-	8-1-6-5-6-	-1-	-3-4-1-1-4-	-1-	-	-	-	-	-								3.30
56-44.4703-108.0781-2-15-						0-W00028-06/14/76-14-			7-		-	-	-	-	-	12-1-6-5-5-	-1-	-3-4-1-3-4-	-1-	-	-	-	-	-								2.30
56-44.0322-108.0347-2-15-						0-W00029-06/30/76-10-			30-		-	-	-	-	-	15-1-1-4-1-	-1-	-3-4-2-3-1-	-1-	-	-	-	-	-								2.70
56-44.0397-108.0506-2-15-						0-W00030-06/30/76-10-			30-		-	-	-	-	-	12-1-1-4-1-	-1-	-3-4-2-3-1-	-1-	-	-	-	-	-								2.60
56-44.0556-108.0806-2-15-						0-W00031-06/30/76-10-			30-		-	-	-	-	-	11-1-4-4-4-	-1-	-3-4-1-3-1-	-1-	-	-	-	-	-								3.20
56-44.0600-108.0964-2-15-						0-W00032-06/30/76-11-			30-		-	-	-	-	-	8-1-4-4-4-	-1-	-3-4-1-3-1-	-1-	-	-	-	-	-								2.40
56-44.0722-108.1194-2-15-						0-W00033-06/30/76-11-			31-		-	-	-	-	-	11-1-4-5-4-	-1-	-3-4-1-2-1-	-1-	-	-	-	-	-								3.10
56-44.1081-108.1522-2-15-						0-W00034-07/01/76- 9-			31-		-	-	-	-	-	13-1-1-5-6-	-1-	-3-4-1-2-1-	-1-	-	-	-	-	-								3.90
56-44.0958-108.1789-2-15-						0-W00035-07/01/76-10-			32-		-	-	-	-	-	10-1-4-5-4-	-1-	-3-4-1-1-1-	-1-	-	-	-	-	-								2.60
56-44.1114-108.1914-2-15-						0-W00036-07/01/76-10-			32-		-	-	-	-	-	17-1-4-5-4-	-1-	-3-4-1-1-1-	-1-	-	-	-	-	-								2.30
56-44.1622-108.1594-2-15-						0-W00037-07/01/76-11-			33-		-	-	-	-	-	11-1-4-5-1-	-1-	-3-4-1-2-1-	-1-	-	-	-	-	-								2.60
56-44.1636-108.1578-2-15-						0-W00038-07/01/76-12-			33-		-	-	-	-	-	19-1-4-5-4-	-1-	-3-4-1-1-1-	-1-	-	-	-	-	-								2.70
56-44.1636-108.1556-2-15-						0-W00039-07/01/76-12-			34-		-	-	-	-	-	10-1-4-5-4-	-1-	-3-4-1-1-1-	-1-	-	-	-	-	-								2.90
56-44.0992-108.1997-2-15-						0-W00040-07/01/76-13-			34-		-	-	-	-	-	12-1-4-5-4-	-1-	-3-4-1-1-1-	-1-	-	-	-	-	-								2.50
56-44.1756-108.2700-2-15-						0-W00041-07/01/76-14-			37-		-	-	-	-	-	11-1-1-5-1-	-1-	-3-4-1-1-1-	-1-	-	-	-	-	-								2.70
56-44.1789-108.2833-2-15-						0-W00042-07/01/76-14-			35-		-	-	-	-	-	10-1-4-5-4-	-1-	-3-4-1-1-1-	-1-	-	-	-	-	-								2.70
56-44.1806-108.2855-2-15-						0-W00043-07/01/76-14-			34-		-	-	-	-	-	10-1-4-5-4-	-1-	-3-4-1-1-1-	-1-	-	-	-	-	-								2.50
56-44.1559-108.3017-2-15-						0-W00044-07/01/76-15-			35-		-	-	-	-	-	5-1-4-5-4-	-1-	-3-4-2-3-2-	-1-	-	-	-	-	-								2.70
56-44.1569-108.3053-2-15-						0-W00045-07/01/76-15-			34-		-	-	-	-	-	8-1-4-5-4-	-1-	-3-4-1-3-2-	-1-	-	-	-	-	-								2.70
56-44.1606-108.3328-2-15-						0-W00046-07/01/76-15-			34-		-	-	-	-	-	12-1-7-5-7-	-1-	-3-4-2-3-2-	-1-	-	-	-	-	-								2.70
56-44.1764-108.3611-2-15-						0-W00047-07/01/76-16-			34-		-	-	-	-	-	12-1-4-5-6-	-1-	-3-4-1-1-2-	-1-	-	-	-	-	-								2.50
56-44.1783-108.3594-2-15-						0-W00048-07/01/76-16-			34-		-	-	-	-	-	10-1-4-5-7-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-								2.60
56-44.1550-108.3635-2-15-						0-W00049-07/01/76-14-			34-		-	-	-	-	-	12-1-1-5-6-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-								2.90
56-44.1267-108.3078-2-15-						0-W00050-07/01/76-17-			30-		-	-	-	-	-	13-1-4-5-4-	-1-	-3-4-2-3-2-	-1-	-	-	-	-	-								2.80
56-44.0828-108.2594-2-15-						0-W00051-07/01/76-17-			30-		-	-	-	-	-	11-1-1-5-6-	-1-	-3-4-1-1-2-	-1-	-	-	-	-	-								2.90
56-44.0689-108.2289-2-15-						0-W00052-07/01/76-18-			29-		-	-	-	-	-	11-1-3-5-1-	-1-	-3-4-1-3-2-	-1-	-	-	-	-	-								3.30
56-44.0672-108.2228-2-15-						0-W00053-07/01/76-18-			29-		-	-	-	-	-	11-1-4-5-4-	-1-	-3-4-1-4-2-	-1-	-	-	-	-	-								3.30

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56	44.3511	108.0764	2	15	-	0-W00002	-5	-5	-5	16	-20	-15	9	-10	-15	2	24
56	44.3536	108.0811	2	15	-	0-W00003	-5	-5	-5	22	-20	-15	11	-10	-15	2	27
56	44.3178	108.0783	2	15	-	0-W00004	-5	5	-5	-10	-20	-15	7	-10	-15	2	18
56	44.3025	108.0822	2	15	-	0-W00005	-5	-5	-5	10	-20	-15	5	-10	-15	1	12
56	44.2767	108.1797	2	15	-	0-W00006	-5	-5	-5	18	-20	-15	-5	-10	-15	1	11
56	44.2719	108.1058	2	15	-	0-W00007	-5	-5	-5	11	-20	-15	9	-10	-15	2	23
56	44.2675	108.1056	2	15	-	0-W00008	-5	-5	-5	17	-20	-15	-5	-10	-15	1	18
56	44.2694	108.1075	2	15	-	0-W00009	-5	-5	-5	14	-20	-15	14	-10	-15	2	19
56	44.2739	108.0756	2	15	-	0-W00010	-5	-5	5	20	-20	17	17	-10	-15	2	24
56	44.2781	108.0511	2	15	-	0-W00011	-5	-5	-5	18	-20	-15	9	-10	-15	2	15
56	44.3028	108.0547	2	15	-	0-W00012	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	10
56	44.2614	108.0356	2	15	-	0-W00013	-5	-5	-5	13	-20	-15	7	-10	-15	2	24
56	44.3844	108.0578	2	15	-	0-W00014	-5	-5	-5	19	-20	18	10	-10	-15	2	28
56	44.4072	108.0658	2	15	-	0-W00015	-5	-5	-5	19	-20	-15	15	-10	-15	2	28
56	44.4278	108.0703	2	15	-	0-W00016	-5	-5	-5	29	-20	23	19	-10	-15	2	40
56	44.4297	108.0683	2	15	-	0-W00017	-5	-5	-5	11	-20	20	13	-10	-15	2	20
56	44.4214	108.1167	2	15	-	0-W00018	-5	-5	-5	25	-20	17	13	-10	-15	2	24
56	44.4133	108.1472	2	15	-	0-W00019	-5	-5	-5	11	-20	-15	9	-10	-15	2	18
56	44.4158	108.2050	2	15	-	0-W00021	-5	-5	-5	16	-20	-15	12	-10	-15	2	34
56	44.4233	108.1894	2	15	-	0-W00022	-5	-5	-5	29	-20	-15	9	-10	-15	2	33
56	44.4269	108.1633	2	15	-	0-W00023	-5	5	-5	20	-20	22	11	-10	-15	2	32
56	44.4297	108.1428	2	15	-	0-W00024	-5	-5	-5	12	-20	21	8	-10	-15	2	21
56	44.4364	108.1250	2	15	-	0-W00025	-5	-5	-5	17	-20	-15	-5	-10	-15	2	17
56	44.4428	108.1156	2	15	-	0-W00026	-5	-5	-5	21	-20	25	14	-10	-15	2	24
56	44.4514	108.1022	2	15	-	0-W00027	-5	-5	-5	17	-20	-15	8	-10	-15	2	16
56	44.4703	108.0781	2	15	-	0-W00028	-5	-5	-5	24	-20	26	12	-10	-15	2	23
56	44.0322	108.0347	2	15	-	0-W00029	-5	-5	-5	17	-20	-15	8	-10	-15	1	18
56	44.0397	108.0506	2	15	-	0-W00030	-5	-5	-5	13	-20	-15	8	-10	-15	2	16
56	44.0556	108.0806	2	15	-	0-W00031	-5	-5	-5	13	-20	-15	8	-10	-15	2	18
56	44.0600	108.0964	2	15	-	0-W00032	-5	-5	-5	23	-20	-15	11	-10	-15	2	18
56	44.0722	108.1194	2	15	-	0-W00033	-5	-5	-5	25	-20	-15	9	-10	-15	2	25
56	44.1081	108.1522	2	15	-	0-W00034	-5	-5	-5	21	-20	16	15	-10	-15	3	48
56	44.0958	108.1789	2	15	-	0-W00035	-5	-5	-5	12	-20	-15	-5	-10	-15	2	20
56	44.1114	108.1914	2	15	-	0-W00036	-5	-5	-5	15	-20	20	14	-10	-15	2	12
56	44.1622	108.1594	2	15	-	0-W00037	-5	-5	-5	19	-20	-15	16	-10	-15	2	17
56	44.1636	108.1578	2	15	-	0-W00038	-5	-5	-5	22	-20	-15	11	-10	-15	2	16
56	44.1636	108.1556	2	15	-	0-W00039	-5	-5	-5	15	-20	-15	7	-10	-15	2	13
56	44.0992	108.1997	2	15	-	0-W00040	-5	-5	-5	11	-20	-15	16	-10	-15	2	15
56	44.1756	108.2700	2	15	-	0-W00041	-5	-5	-5	20	-20	-15	-5	-10	-15	2	11
56	44.1789	108.2833	2	15	-	0-W00042	-5	-5	-5	15	-20	-15	8	-10	-15	2	21
56	44.1806	108.2856	2	15	-	0-W00043	-5	-5	-5	16	-20	-15	10	-10	-15	2	20
56	44.1569	108.3017	2	15	-	0-W00044	-5	-5	-5	19	-20	-15	8	-10	-15	1	19
56	44.1569	108.3053	2	15	-	0-W00045	-5	-5	-5	22	-20	16	5	-10	-15	2	16
56	44.1606	108.3328	2	15	-	0-W00046	-5	-5	-5	10	-20	-15	10	-10	-15	2	10
56	44.1764	108.3611	2	15	-	0-W00047	-5	-5	-5	18	-20	-15	6	-10	-15	2	14
56	44.1783	108.3594	2	15	-	0-W00048	-5	-5	-5	17	-20	-15	7	-10	-15	2	12
56	44.1550	108.3636	2	15	-	0-W00049	-5	-5	-5	14	-20	-15	9	-10	-15	2	14
56	44.1267	108.3078	2	15	-	0-W00050	-5	-5	-5	20	-20	-15	18	-10	-15	2	16
56	44.0828	108.2594	2	15	-	0-W00051	-5	-5	-5	19	-20	-15	-5	-10	-15	2	17
56	44.0689	108.2289	2	15	-	0-W00052	-5	-5	-5	18	-20	-15	11	-10	-15	2	19
56	44.0672	108.2228	2	15	-	0-W00053	-5	-5	-5	18	-20	-15	6	-10	-15	1	15

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.3511-	108.0764-	2-	15-	0-	W00002	47600	-0.13	557	6883	69	-45	9.6	51	5.2	4	1.6	20770	9.3	14940	44	0.4
56-	44.3536-	108.0811-	2-	15-	0-	W00003	40770	-0.12	531	5727	48	-41	6.1	37	3.4	4	1.1	14500	7.1	13550	34	0.2
56-	44.3178-	108.0783-	2-	15-	0-	W00004	31060	-0.12	490	6998	57	-32	6.5	36	3.4	4	1.5	12670	15.4	12550	27	0.3
56-	44.3025-	108.0822-	2-	15-	0-	W00005	21590	-0.09	2772	10080	58	-36	4.9	40	2.5	4	1.1	10200	18.1	9314	40	0.3
56-	44.2767-	108.1797-	2-	15-	0-	W00006	20600	-0.09	749	6975	50	-36	3.9	31	1.9	4	1.3	7835	17.8	9117	-10	0.4
56-	44.2719-	108.1058-	2-	15-	0-	W00007	39240	-0.11	699	9980	47	-42	5.4	34	2.6	4	1.1	11840	9.3	13250	36	0.3
56-	44.2675-	108.1056-	2-	15-	0-	W00008	28730	-0.12	942	19160	51	-44	6.9	33	2.9	4	1.1	13330	10.3	10980	-14	0.3
56-	44.2694-	108.1075-	2-	15-	0-	W00009	31060	-0.10	838	9062	59	-41	6.1	39	2.8	4	1.6	12220	20.3	13150	47	0.4
56-	44.2739-	108.0756-	2-	15-	0-	W00010	34820	-0.11	3777	49280	61	-88	7.9	41	3.5	5	1.3	15350	10.9	14520	46	0.3
56-	44.2781-	108.0511-	2-	15-	0-	W00011	25520	-0.10	1722	12950	46	-38	4.8	29	1.9	3	0.9	8904	11.2	10560	-10	0.3
56-	44.3028-	108.0547-	2-	15-	0-	W00012	19870	-0.11	1954	7408	69	-30	3.8	45	2.1	5	1.4	9163	45.5	9579	47	0.6
56-	44.2614-	108.0356-	2-	15-	0-	W00013	42800	-0.13	789	10050	71	221	8.5	53	4.3	4	1.7	18760	15.7	15840	51	0.4
56-	44.3844-	108.0578-	2-	15-	0-	W00014	49410	-0.12	644	13130	65	89	9.0	59	4.2	5	1.5	20370	13.1	14810	38	0.4
56-	44.4072-	108.0658-	2-	15-	0-	W00015	49940	-0.14	578	16620	68	167	9.5	67	3.2	5	1.5	19850	15.1	17310	39	0.5
56-	44.4278-	108.0703-	2-	15-	0-	W00016	53520	-0.17	688	13350	81	-56	11.8	73	6.0	5	1.9	25920	9.8	19470	-16	0.4
56-	44.4297-	108.0683-	2-	15-	0-	W00017	36530	-0.12	571	12330	99	-60	11.1	111	3.1	5	1.7	27210	26.0	14010	43	0.5
56-	44.4214-	108.1167-	2-	15-	0-	W00018	42570	-0.13	516	5596	68	-50	10.4	47	3.9	5	1.6	23510	11.8	12710	-14	0.4
56-	44.4133-	108.1472-	2-	15-	0-	W00019	32660	-0.11	641	11590	52	-46	4.6	34	2.6	4	1.1	9955	9.6	13260	-10	0.3
56-	44.4158-	108.2050-	2-	15-	0-	W00021	39360	-0.16	537	19330	59	2487	8.0	59	4.1	4	1.6	17210	12.0	12610	-17	0.4
56-	44.4233-	108.1994-	2-	15-	0-	W00022	47230	-0.13	556	9798	69	-52	9.3	53	4.7	5	1.7	21200	11.9	13370	37	0.4
56-	44.4269-	108.1633-	2-	15-	0-	W00023	50480	-0.12	491	8259	62	-44	8.0	43	4.3	5	1.5	18780	10.0	14270	39	0.4
56-	44.4297-	108.1428-	2-	15-	0-	W00024	44200	-0.14	757	6534	67	-40	7.6	52	4.1	5	1.5	17710	23.1	14870	-10	0.5
56-	44.4364-	108.1250-	2-	15-	0-	W00025	30960	-0.14	888	4380	66	-35	9.3	57	3.5	5	1.8	27970	32.4	10480	48	0.6
56-	44.4428-	108.1156-	2-	15-	0-	W00026	45980	-0.13	662	5256	72	-44	11.7	58	4.3	5	1.7	25900	15.6	12400	45	0.4
56-	44.4514-	108.1022-	2-	15-	0-	W00027	31570	-0.11	672	4900	53	-49	8.0	46	2.5	4	1.4	22430	14.6	9082	35	0.3
56-	44.4703-	108.0781-	2-	15-	0-	W00028	45850	-0.12	633	29560	46	-65	7.1	47	3.5	3	1.2	15390	6.3	15420	33	0.2
56-	44.0322-	108.0347-	2-	15-	0-	W00029	34440	-0.13	577	9969	63	-40	6.8	48	2.9	4	1.5	13860	18.9	14200	45	0.4
56-	44.0397-	108.0506-	2-	15-	0-	W00030	33890	-0.11	578	11290	60	-43	6.3	44	2.9	4	1.5	12550	14.3	11650	39	0.4
56-	44.0556-	108.0806-	2-	15-	0-	W00031	34940	-0.11	639	9069	71	242	6.5	44	3.4	5	1.7	12860	19.1	13350	45	0.4
56-	44.0650-	108.0964-	2-	15-	0-	W00032	33710	-0.11	619	9537	45	-42	4.3	34	2.5	3	1.1	10870	6.2	14400	-10	0.2
56-	44.0722-	108.1194-	2-	15-	0-	W00033	35810	-0.13	673	12000	55	-41	6.9	43	4.3	4	1.4	15720	11.3	15340	49	0.4
56-	44.1081-	108.1522-	2-	15-	0-	W00034	53210	-0.18	715	9553	76	364	12.2	82	9.0	-1	2.0	27990	8.0	16890	43	0.5
56-	44.0958-	108.1789-	2-	15-	0-	W00035	32110	-0.10	549	9873	47	-45	5.8	37	3.3	4	1.3	10730	12.1	11210	-11	0.4
56-	44.1114-	108.1914-	2-	15-	0-	W00036	32630	-0.10	701	10220	41	43	4.5	30	2.6	4	1.1	8847	8.9	12460	21	0.3
56-	44.1622-	108.1594-	2-	15-	0-	W00037	34870	-0.11	638	10550	57	-47	6.6	44	3.3	4	1.4	13280	11.6	14890	41	0.4
56-	44.1636-	108.1578-	2-	15-	0-	W00038	32720	-0.10	551	6338	49	-41	6.0	33	3.8	4	1.3	13390	7.7	13610	27	0.4
56-	44.1636-	108.1556-	2-	15-	0-	W00039	29530	-0.11	555	8248	54	-39	4.6	26	2.3	4	1.2	10130	14.0	12640	-10	0.4
56-	44.0992-	108.1997-	2-	15-	0-	W00040	34090	-0.12	635	7778	53	-37	6.4	42	3.4	4	1.4	12880	12.1	13290	-11	0.4
56-	44.1756-	108.2700-	2-	15-	0-	W00041	32640	-0.10	393	20650	64	-58	5.4	36	2.8	5	1.4	10200	20.1	11030	23	0.5
56-	44.1789-	108.2833-	2-	15-	0-	W00042	37910	-0.11	475	9419	59	-47	7.3	44	3.1	4	1.4	14020	9.2	14310	30	0.4
56-	44.1806-	108.2856-	2-	15-	0-	W00043	35630	-0.16	553	8147	49	-49	5.2	36	2.8	4	1.0	13240	9.4	13800	-21	0.3
56-	44.1569-	108.3017-	2-	15-	0-	W00044	34810	-0.05	532	11530	47	-47	4.0	36	2.5	4	1.0	10800	11.0	13280	21	0.3
56-	44.1569-	108.3053-	2-	15-	0-	W00045	31790	-0.06	551	9839	48	72	5.1	47	2.7	4	1.1	15460	11.5	13790	27	0.4
56-	44.1606-	108.3328-	2-	15-	0-	W00046	27420	-0.10	450	7091	52	58	4.8	35	2.2	4	1.2	8940	16.5	10470	30	0.4
56-	44.1764-	108.3611-	2-	15-	0-	W00047	33070	-0.12	486	7443	55	-39	6.8	46	3.3	4	1.4	12780	12.1	13720	23	0.5
56-	44.1783-	108.3594-	2-	15-	0-	W00048	29730	-0.09	408	6572	62	-45	5.9	38	1.9	4	1.4	11620	16.1	11610	30	0.4
56-	44.1550-	108.3636-	2-	15-	0-	W00049	33370	-0.09	493	13640	57	-45	6.2	40	2.6	4	1.3	12360	12.8	12040	32	0.4
56-	44.1267-	108.3078-	2-	15-	0-	W00050	36070	-0.11	539	10880	48	-40	5.0	33	2.9	4	1.1	10330	11.4	14860	19	0.3
56-	44.0828-	108.2594-	2-	15-	0-	W00051	36600	-0.13	511	8159	60	-43	8.2	48	3.0	4	1.4	15260	14.0	14630	44	0.4
56-	44.0689-	108.2289-	2-	15-	0-	W00052	36830	-0.11	587	11350	69	1171	7.2	47	2.9	5	1.6	13800	14.5	13250	47	0.5
56-	44.0672-	108.2228-	2-	15-	0-	W00053	31940	-0.10	544	10300	63	-45	5.7	45	3.0	5	1.4	11010	18.5	13130	37	0.4

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.3511-108.0764-2-15-						0-W00002	12800	219	2941	88	-3	7.6	6.5	-149	-1	-1	11.2	2911	85	3.4	74	0.268
56-44.3536-108.0811-2-15-						0-W00003	9798	206	3330	49	-3	5.1	4.9	-154	-1	-1	6.6	2442	73	3.5	-57	0.379
56-44.3178-108.0783-2-15-						0-W00004	9250	243	2216	43	-2	4.9	5.0	-140	-1	-1	8.2	2457	55	-1.9	86	0.354
56-44.3025-108.0822-2-15-						0-W00005	7026	354	1485	-15	-2	3.7	4.2	-158	-1		7.1	2261	39	2.6	45	0.380
56-44.2767-108.1797-2-15-						0-W00006	6298	153	2002	24	-2	3.1	5.1	-115	-1		6.8	2092	34	4.1	55	0.382
56-44.2719-108.1058-2-15-						0-W00007	11280	228	2226	36	-3	4.5	3.9	-160	-1	-1	7.1	2370	65	5.0	-68	0.380
56-44.2675-108.1056-2-15-						0-W00008	6766	446	2081	60	-3	4.7	5.2	-219	-1	-1	7.2	2038	49	-1.5	73	0.347
56-44.2694-108.1075-2-15-						0-W00009	10870	209	2736	38	-2	4.7	5.0	-136	-1	-1	8.8	2501	52	3.7	57	0.341
56-44.2739-108.0756-2-15-						0-W00010	10990	1579	1826	-21	-3	5.7	6.9	-354	-1	1	8.0	1763	60	2.7	63	0.425
56-44.2781-108.0511-2-15-						0-W00011	7489	390	2125	31	-2	3.4	4.1	-185	-1		6.1	2290	44	2.6	38	0.410
56-44.3028-108.0547-2-15-						0-W00012	6069	230	1780	-16	-2	3.9	7.0	-133	-1	-1	11.0	3022	39	5.5	32	0.382
56-44.2614-108.0356-2-15-						0-W00013	13810	271	3427	71	-3	5.8	7.1	-162	-1	-1	11.4	2977	73	-1.7	59	0.281
56-44.3844-108.0579-2-15-						0-W00014	14410	277	5558	45	-3	6.9	4.8	271	-1	-1	10.1	3047	76	3.2	101	0.356
56-44.4072-108.0658-2-15-						0-W00015	15360	389	8269	44	-3	6.6	6.0	-213	-1	-1	11.3	3490	77	3.6	136	0.319
56-44.4278-108.0703-2-15-						0-W00016	18320	315	5056	90	-4	9.8	6.5	-196	-1	-1	12.7	3878	88	-2.4	117	0.260
56-44.4297-108.0683-2-15-						0-W00017	15870	391	6291	52	-3	7.3	6.9	291	-1	-1	15.8	4030	100	6.2	77	0.215
56-44.4214-108.1167-2-15-						0-W00018	9385	252	3093	58	-3	6.9	5.3	-177	-1	-1	9.7	2934	70	3.7	88	0.361
56-44.4133-108.1472-2-15-						0-W00019	10230	265	3468	43	-3	3.7	3.6	-175	-1	-1	6.5	2177	57	3.2	39	0.431
56-44.4158-108.2050-2-15-						0-W00021	16570	310	20230	-25	-4	6.4	-1.8	-250	-1	-1	9.4	2401	64	-2.0	98	0.489
56-44.4233-108.1894-2-15-						0-W00022	14460	334	3193	78	-3	7.7	6.0	-180	-1	-1	10.9	2991	87	4.1	93	0.294
56-44.4269-108.1533-2-15-						0-W00023	13900	201	2939	59	-3	5.6	5.6	-141	-1	-1	8.5	2902	81	-1.9	84	0.400
56-44.4297-108.1423-2-15-						0-W00024	9544	277	2110	-21	-3	6.0	5.2	-176	-1	-1	10.1	3472	90	4.2	93	0.436
56-44.4364-108.1250-2-15-						0-W00025	9123	428	1673	-25	-3	6.5	6.4	-137	-1	-1	12.3	3340	65	5.7	83	0.374
56-44.4428-108.1156-2-15-						0-W00026	9815	360	2186	59	-3	7.7	5.9	-175	1	-1	11.5	3349	82	4.5	114	0.357
56-44.4514-108.1022-2-15-						0-W00027	7655	430	3008	39	-2	5.2	4.8	-175	-1	-1	8.8	2554	55	3.6	67	0.375
56-44.4703-108.0781-2-15-						0-W00028	25190	263	8939	-19	-3	5.5	4.9	-190	-1	-1	6.8	2431	65	2.5	63	0.338
56-44.0322-108.0347-2-15-						0-W00029	11280	228	3534	52	-3	5.3	5.4	-147	-1	-1	9.6	2941	52	3.5	85	0.281
56-44.0397-108.0506-2-15-						0-W00030	10150	234	2833	57	-2	4.9	4.7	-143	-1	-1	8.6	2936	57	3.0	56	0.302
56-44.0556-108.0806-2-15-						0-W00031	9406	316	3658	44	-3	5.1	5.8	-166	-1	-1	10.0	2876	60	3.8	59	0.320
56-44.0600-108.0964-2-15-						0-W00032	8417	257	3070	57	-3	3.9	3.2	-167	-1	-1	7.1	2137	62	3.8	-32	0.338
56-44.0722-108.1194-2-15-						0-W00033	12180	290	3163	55	-3	5.7	6.9	-166	-1	-1	9.7	3168	67	4.3	79	0.320
56-44.1081-108.1522-2-15-						0-W00034	15010	279	3495	98	-4	10.3	7.8	-202	-1	-1	15.2	3565	115	4.6	127	0.257
56-44.0958-108.1789-2-15-						0-W00035	11150	299	3038	42	-2	4.1	5.2	-159	-1	-1	7.6	2136	47	4.4	53	0.342
56-44.1114-108.1914-2-15-						0-W00036	9510	285	3124	39	-2	3.6	3.6	-172	-1		5.9	2385	45	3.2	48	0.390
56-44.1622-108.1594-2-15-						0-W00037	12940	338	2874	53	-3	5.3	4.6	-170	-1	-1	8.5	2806	54	2.6	67	0.306
56-44.1636-108.1578-2-15-						0-W00038	9476	165	2386	61	-2	4.6	4.6	-124	-1	-1	7.7	2136	61	3.4	57	0.351
56-44.1636-108.1556-2-15-						0-W00039	11110	272	2450	-15	-2	3.8	4.2	-164	-1	-1	7.6	2272	46	3.4	43	0.382
56-44.0992-108.1997-2-15-						0-W00040	8062	215	2854	56	-3	5.0	5.0	-140	-1	-1	8.7	2548	54	-1.5	78	0.287
56-44.1756-108.2700-2-15-						0-W00041	9991	625	2134	62	-2	4.6	4.8	-247	-1	-1	9.3	2506	42	3.9	70	0.290
56-44.1789-108.2833-2-15-						0-W00042	9897	259	2845	72	-3	5.2	4.8	-154	-1	-1	9.5	2930	56	3.3	65	0.284
56-44.1806-108.2856-2-15-						0-W00043	12060	286	2371	63	-4	4.9	4.2	-174	-1		7.3	2464	58	-1.8	71	0.342
56-44.1569-108.3017-2-15-						0-W00044	11120	302	3334	38	-1	4.0	4.3	-200	-1	-1	7.1	2509	48	2.7	-48	0.380
56-44.1569-108.3053-2-15-						0-W00045	9808	284	2326	59	-1	5.2	5.3	-184	-1	-1	9.5	2909	51	2.8	53	0.284
56-44.1606-108.3328-2-15-						0-W00046	7623	271	3262	35	-2	3.6	3.9	-160	-1	-1	7.4	2143	38	2.7	28	0.365
56-44.1764-108.3611-2-15-						0-W00047	10660	201	3043	54	-3	5.1	5.4	-145	-1	-1	8.7	2620	49	-1.6	66	0.287
56-44.1783-108.3594-2-15-						0-W00048	10840	252	3257	42	-2	4.6	4.3	-147	-1	-1	8.3	2702	45	3.5	78	0.313
56-44.1550-108.3636-2-15-						0-W00049	8972	264	3560	42	-2	4.2	4.8	-145	-1	-1	7.9	2472	38	2.8	49	0.367
56-44.1267-108.3078-2-15-						0-W00050	12350	250	2707	-17	-3	4.2	3.3	-171	-1	-1	6.8	3031	60	2.2	80	0.412
56-44.0828-108.2594-2-15-						0-W00051	11040	260	3538	70	-3	5.6	4.8	-164	-1	-1	9.0	2904	48	4.8	28	0.322
56-44.0689-108.2289-2-15-						0-W00052	12490	222	5074	54	-3	5.5	5.6	-158	-1	-1	10.6	2776	56	4.3	86	0.311
56-44.0672-108.2228-2-15-						0-W00053	8109	276	2855	59	-2	4.5	5.1	-149	-1	-1	9.5	2913	48	4.3	46	0.347

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	44.0028	108.1928	2	15	0	W00054	07/01/75	18	28							11	1	4	5	6	1	3	4	3	1	2	1						3.00
56	44.4903	108.4803	2	15	0	W00055	07/08/75	15	36							16	1	1	5	1	1	3	4	2	1	1	1						2.60
56	44.4550	108.3839	2	15	0	W00056	07/08/75	16	37							8	1	6	5	6	1	3	4	2	3	1	1						3.00
56	44.4250	108.3917	2	15	0	W00057	07/09/75	16	37		C					15	1	6	5	6	1	3	4	3	1	1	1	3					3.10
56	44.4356	108.3406	2	15	0	W00058	07/09/75	17	37							17	1	1	5	6	1	3	4	2	1	1	1						2.90
56	44.4336	108.3100	2	15	0	W00059	07/09/75	17	35							8	1	6	5	6	1	3	4	2	1	1	1						3.50
56	44.4328	108.3106	2	15	0	W00060	07/09/75	17	35							11	1	2	5	6	1	3	4	2	2	1	1						3.50
56	44.4867	108.3489	2	15	0	W00061	07/09/75	18	33							17	1	6	5	6	1	3	4	3	3	1	1						2.60
56	44.4847	108.3133	2	15	0	W00062	07/09/75	18	35							15	1	6	5	6	1	3	4	2	3	1	1						3.10
56	44.4833	108.2700	2	15	0	W00063	07/09/75	18	33							12	1	6	5	6	1	3	4	2	1	1	1						2.90
56	44.4817	108.2583	2	15	0	W00064	07/09/75	18	33							10	1	6	5	6	1	3	4	2	1	1	1						2.10
56	44.5406	108.1522	2	15	0	W00065	07/10/75	9	30							15	1	1	6	5	1	3	4	1	3	1	1						3.30
56	44.5469	108.1742	2	15	0	W00066	07/10/75	10	30							17	1	6	5	6	1	3	4	2	1	1	1						2.90
56	44.5525	108.1775	2	15	0	W00067	07/10/75	10	31							12	1	6	5	6	1	3	4	2	1	1	1						3.00
56	44.5747	108.1894	2	15	0	W00068	07/10/75	10	30							10	1	6	5	6	1	3	4	2	1	1	1						2.60
56	44.5050	108.0531	2	15	0	W00069	07/10/75	10	32							8	1	6	5	6	1	3	4	3	1	1	1						2.80
56	44.5317	108.0842	2	15	0	W00070	07/10/75	11	36							12	1	7	4	6	1	3	4	1	4	1	1						3.50
56	44.5331	108.0853	2	15	0	W00071	07/10/75	11	34							13	1	7	5	6	1	3	4	1	4	1	1						3.00
56	44.5636	108.1056	2	15	0	W00072	07/10/75	12	35							5	1	6	4	6	1	3	4	2	3	1	1						2.90
56	44.5233	108.0117	2	15	0	W00073	07/10/75	14	36							6	1	7	5	6	1	3	4	1	3	1	1						2.60
56	44.6175	108.0461	2	15	0	W00074	07/10/75	14	36							10	1	7	5	6	1	3	4	2	4	1	1						3.70
56	44.6017	108.0556	2	15	0	W00075	07/10/75	14	35							11	1	7	5	6	1	3	4	1	4	1	1						3.10
56	44.6125	108.0283	2	15	0	W00076	07/10/75	15	39							5	1	7	5	5	1	3	4	1	3	1	1						3.30
56	44.5958	108.0214	2	15	0	W00077	07/10/75	15	37							10	1	7	4	6	1	3	4	1	4	1	1						3.00
56	44.5961	108.0139	2	15	0	W00078	07/10/75	15	37							17	1	7	4	6	1	3	4	1	4	1	1						2.90
56	44.5711	108.0011	2	15	0	W00079	07/10/75	16	38							19	1	8	5	6	1	3	4	1	4	1	1						3.20
56	44.4794	108.0250	2	15	0	W00080	07/27/75	13	34		C					7	1	1	4	1	1	3	4	1	4	2	1						2.00
56	44.4436	108.0169	2	15	0	W00081	07/27/75	14	34							15	1	7	5	7	1	3	4	1	1	2	1						3.70
56	44.4847	108.0719	2	15	0	W00082	07/27/75	14	35							11	1	6	5	6	1	3	4	1	3	2	1						2.80
56	44.3042	108.0811	2	15	0	W00083	06/12/75	9	19							12	1	6	4	6	1	3	4	1	2	2	1						2.40
56	44.0014	108.2283	2	15	0	W00084	08/05/75	11	20							9	1	7	5	6	1	3	4	3	3	1	1						3.00
56	44.7535	108.8589	2	15	0	W00085	08/04/75	9	18							9	1	7	4	5	1	3	2	2	1	1	1						4.10
56	44.7967	108.9633	2	15	0	W00086	08/04/75	9	18							3	1	7	4	6	1	3	2	2	1	1	1						3.60
56	44.7967	108.9655	2	15	0	W00087	08/04/75	9	18							6	1	7	5	6	1	3	2	2	2	1	1						3.90
56	44.8267	108.9800	2	15	0	W00088	08/04/75	10	21							9	1	7	4	6	1	3	2	2	2	1	1						6.00
56	44.8111	108.9617	2	15	0	W00089	08/04/75	10	20							6	1	7	4	6	1	3	2	2	2	1	1						3.40
56	44.8183	108.9505	2	15	0	W00090	08/04/75	10	20							5	1	7	4	6	1	3	2	2	2	1	1						2.70
56	44.8206	108.9194	2	15	0	W00091	08/04/75	10	20							3	1	7	4	6	1	3	2	2	2	1	1						2.20
56	44.8528	108.9594	2	15	0	W00092	08/04/75	10	20							6	1	7	4	5	1	3	2	2	2	1	1						2.40
56	44.8456	108.7589	2	15	0	W00093	08/04/75	12	24							6	1	7	4	6	1	3	2	2	2	1	1						3.10
56	44.9811	108.9983	2	15	0	W00094	08/04/75	12	24							3	1	7	4	6	1	3	2	2	2	1	1						2.80
56	44.9906	108.9500	2	15	0	W00095	08/04/75	13	25							6	1	7	4	6	1	3	2	2	2	1	1						2.90
56	44.9900	108.9478	2	15	0	W00096	08/04/75	13	25							6	1	7	5	6	1	3	2	2	2	1	1						3.30
56	44.9572	108.9289	2	15	0	W00097	08/04/75	13	25							6	1	7	5	6	1	3	2	2	2	1	1						3.50
56	44.9522	108.9989	2	15	0	W00098	08/04/75	13	25							6	1	7	4	6	1	3	2	2	2	1	1						3.30
56	44.9272	108.9628	2	15	0	W00099	08/04/75	13	25							3	1	7	4	6	1	3	2	2	2	1	1						3.40
56	44.5397	108.1908	2	15	0	W00100	08/05/75	9	24							15	1	7	4	6	1	3	2	3	2	2	1	1					3.90
56	44.5381	108.1906	2	15	0	W00101	08/05/75	9	24							14	1	7	4	6	1	3	2	3	2	2	1	1					4.10
56	44.5872	108.1564	2	15	0	W00102	08/05/75	10	26							17	1	7	4	6	1	3	2	3	3	2	1	1					3.00
56	44.5853	108.1561	2	15	0	W00103	08/05/75	10	24							9	1	7	4	6	1	3	2	3	3	2	1	1					4.10
56	44.5997	108.1439	2	15	0	W00104	08/05/75	10	24							14	1	7	4	6	1	3	2	3	3	2	1	1					4.80

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

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.0028-108.1928-2-15-						0-W00054	-5	-5	-5	19	-20	-15	9	-10	-15	2	21
56-44.4903-108.4808-2-15-						0-W00055	-5	-5	-5	16	-20	-15	9	-10	-15	2	18
56-44.4550-108.3839-2-15-						0-W00056	-5	-5	-5	20	-20	-15	15	-10	-15	2	21
56-44.4250-108.3917-2-15-						0-W00057	-5	-5	-5	20	-20	40	15	-10	-15	2	29
56-44.4356-108.3406-2-15-						0-W00058	-5	-5	-5	16	-20	-15	13	-10	-15	2	22
56-44.4336-108.3100-2-15-						0-W00059	-5	-5	-5	29	-20	15	9	-10	15	2	29
56-44.4328-108.3106-2-15-						0-W00060	-5	-5	-5	22	-20	-15	15	-10	-15	3	42
56-44.4867-108.3489-2-15-						0-W00061	-5	-5	-5	23	-20	-15	5	-10	-15	2	22
56-44.4847-108.3133-2-15-						0-W00062	-5	-5	-5	19	-20	-15	14	-10	-15	2	22
56-44.4833-108.2700-2-15-						0-W00063	-5	-5	-5	23	-20	18	12	-10	-15	2	32
56-44.4817-108.2583-2-15-						0-W00064	-5	-5	-5	-10	-20	-15	6	-10	-15	2	17
56-44.5406-108.1522-2-15-						0-W00065	-5	-5	-5	28	-20	-15	11	-10	-15	2	29
56-44.5469-108.1742-2-15-						0-W00066	-5	-5	-5	14	-20	-15	11	-10	-15	2	25
56-44.5525-108.1775-2-15-						0-W00067	-5	-5	-5	17	-20	18	12	-10	-15	2	30
56-44.5747-108.1894-2-15-						0-W00068	-5	-5	-5	20	-20	-15	13	-10	-15	2	19
56-44.5050-108.0631-2-15-						0-W00069	-5	-5	-5	14	-20	-15	7	-10	-15	2	21
56-44.5317-108.0842-2-15-						0-W00070	-5	-5	-5	15	-20	-15	7	-10	-15	2	17
56-44.5331-108.0853-2-15-						0-W00071	-5	-5	-5	10	-20	-15	8	-10	-15	2	19
56-44.5636-108.1056-2-15-						0-W00072	-5	-5	-5	17	-20	15	6	-10	-15	2	34
56-44.5233-108.0117-2-15-						0-W00073	-5	-5	-5	21	-20	-15	-5	-10	-15	2	19
56-44.6175-108.0461-2-15-						0-W00074	-5	-5	-5	20	-20	-15	13	-10	-15	2	37
56-44.6017-108.0556-2-15-						0-W00075	-5	-5	-5	14	-20	-15	11	-10	-15	2	31
56-44.6125-108.0283-2-15-						0-W00076	-5	-5	-5	14	-20	-15	8	-10	-15	2	29
56-44.5958-108.0214-2-15-						0-W00077	-5	-5	-5	17	-20	-15	14	-10	-15	2	22
56-44.5961-108.0139-2-15-						0-W00078	-5	-5	-5	14	-20	-15	6	-10	-15	2	25
56-44.5711-108.0011-2-15-						0-W00079	-5	-5	-5	11	-20	-15	-5	-10	-15	2	27
56-44.4794-108.0250-2-15-						0-W00080	-5	-5	-5	16	-20	-15	-5	-10	-15	2	18
56-44.4436-108.0169-2-15-						0-W00081	-5	-5	-5	15	-20	-15	7	-10	-15	2	58
56-44.4847-108.0719-2-15-						0-W00082	-5	-5	-5	18	-20	-15	6	-10	-15	2	41
56-44.3042-108.0811-2-15-						0-W00083	-5	-5	-5	15	-20	-15	-5	-10	-15	2	20
56-44.0014-108.2289-2-15-						0-W00084	-5	-5	-5	13	-20	24	7	-10	-15	2	28
56-44.7536-108.8589-2-15-						0-W00085	-5	5	-5	13	-20	-15	5	-10	-15	2	23
56-44.7967-108.9633-2-15-						0-W00086	-5	-5	-5	13	-20	-15	8	-10	-15	2	23
56-44.7967-108.9656-2-15-						0-W00087	-5	-5	-5	21	-20	31	12	-10	-15	2	51
56-44.9267-108.9800-2-15-						0-W00088	-5	-5	8	15	-20	-15	8	-10	-15	2	30
56-44.8111-108.9517-2-15-						0-W00089	-5	-5	-5	19	-20	48	9	-10	-15	2	36
56-44.8183-108.9506-2-15-						0-W00090	-5	-5	-5	16	-20	25	6	-10	-15	2	22
56-44.8206-108.9194-2-15-						0-W00091	-5	-5	-5	12	-20	-15	6	-10	-15	2	21
56-44.8528-108.9694-2-15-						0-W00092	-5	-5	-5	18	-20	-15	9	-10	-15	2	23
56-44.8456-108.7589-2-15-						0-W00093	-5	-5	-5	20	-20	-15	19	-10	-15	2	25
56-44.9811-108.9983-2-15-						0-W00094	-5	-5	-5	-10	-20	-15	7	-10	-15	1	13
56-44.9906-108.9500-2-15-						0-W00095	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	26
56-44.9900-108.9478-2-15-						0-W00096	-5	-5	-5	18	-20	16	12	-10	22	2	39
56-44.9572-108.9283-2-15-						0-W00097	-5	-5	-5	18	-20	-15	16	-10	-15	2	32
56-44.9522-108.9983-2-15-						0-W00098	-5	-5	-5	28	-20	21	13	-10	-15	2	30
56-44.9272-108.9628-2-15-						0-W00099	-5	-5	-5	27	-20	-15	14	-10	-15	2	35
56-44.5397-108.1908-2-15-						0-W00100	-5	-5	-5	28	-20	-15	16	-10	-15	2	29
56-44.5381-108.1906-2-15-						0-W00101	-5	-5	-5	22	-20	-15	14	-10	-15	3	35
56-44.5872-108.1564-2-15-						0-W00102	-5	-5	-5	31	-20	-15	14	-10	-15	2	47
56-44.5853-108.1561-2-15-						0-W00103	-5	-5	-5	15	-20	17	17	-10	-15	2	39
56-44.5997-108.1439-2-15-						0-W00104	-5	-5	-5	25	-20	15	13	-10	-15	2	39

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.0028-	108.1928-	2-	15-	0-	W00054	42880	-0.12	520	17000	56	-44	6.6	43	3.5	5	1.2	14520	12.4	15480	28	0.4
56-	44.4903-	108.4808-	2-	15-	0-	W00055	36160	-0.11	527	17980	55	-48	7.0	48	2.9	4	1.5	15240	13.8	14280	32	0.3
56-	44.4550-	108.3839-	2-	15-	0-	W00056	42860	-0.11	532	10030	69	-46	8.8	55	4.4	4	1.5	17220	12.8	13000	31	0.5
56-	44.4250-	108.3917-	2-	15-	0-	W00057	57200	-0.15	751	23150	74	-91	13.7	94	4.2	4	1.9	27740	10.3	17400	43	0.3
56-	44.4356-	108.3406-	2-	15-	0-	W00058	37130	-0.11	541	13330	48	-46	5.2	37	3.2	4	1.2	11850	12.9	12380	25	0.4
56-	44.4336-	108.3100-	2-	15-	0-	W00059	63420	-0.16	678	13500	75	-53	12.3	70	6.2	5	1.9	28460	8.3	18280	52	0.5
56-	44.4328-	108.3106-	2-	15-	0-	W00060	64970	-0.16	581	10090	86	-54	13.3	75	7.8	5	1.9	30480	9.3	19660	53	0.5
56-	44.4867-	108.3489-	2-	15-	0-	W00061	40420	-0.11	525	8700	61	-56	7.9	60	3.3	4	1.5	18220	14.3	15990	39	0.4
56-	44.4847-	108.3133-	2-	15-	0-	W00062	44550	-0.12	667	12910	53	-45	6.8	42	3.4	4	1.2	14290	9.2	13040		0.3
56-	44.4833-	108.2700-	2-	15-	0-	W00063	54330	-0.15	619	14590	68	-54	11.0	73	5.4	5	1.7	25110	8.6	16080	40	0.4
56-	44.4817-	108.2583-	2-	15-	0-	W00064	33970	-0.10	589	10350	57	-49	7.9	57	2.1	3	1.4	15710	10.4	12750	29	0.3
56-	44.5406-	108.1522-	2-	15-	0-	W00065	52470	-0.11	557	11700	58	-51	8.8	45	4.9	5	1.5	19420	6.7	14040	-10	0.3
56-	44.5469-	108.1742-	2-	15-	0-	W00066	50040	-0.12	673	9419	53	-46	7.6	38	3.7	4	1.3	18620	7.3	14010	29	0.3
56-	44.5525-	108.1775-	2-	15-	0-	W00067	56280	-0.15	631	12670	66	-53	9.8	54	5.3	5	1.8	22390	9.0	16280	-16	0.4
56-	44.5747-	108.1894-	2-	15-	0-	W00068	49490	-0.11	591	12620	66	-61	9.0	54	4.2	4	1.6	19730	10.1	15500	34	0.4
56-	44.5050-	108.0631-	2-	15-	0-	W00069	36280	-0.10	644	17270	53	116	6.3	36	2.8	4	1.3	14060	11.9	13860	26	0.3
56-	44.5317-	108.0842-	2-	15-	0-	W00070	32410	-0.12	925	12630	63	131	6.1	49	2.7	4	1.4	16990	20.2	10660	30	0.4
56-	44.5331-	108.0853-	2-	15-	0-	W00071	38210	-0.12	775	11280	59	-47	8.8	48	2.6	4	1.5	20080	13.5	13860	-14	0.3
56-	44.5636-	108.1056-	2-	15-	0-	W00072	47270	-0.12	501	36950	61	-66	9.4	60	3.4	5	1.8	24480	10.7	14830	33	0.4
56-	44.5233-	108.0117-	2-	15-	0-	W00073	33510	-0.10	510	35840	42	-66	6.4	30	1.8	4	1.3	14780	8.5	11980	21	0.3
56-	44.6175-	108.0461-	2-	15-	0-	W00074	50250	-0.13	590	16970	67	-66	9.7	47	3.2	5	1.4	19700	10.9	15270	-10	0.4
56-	44.6017-	108.0556-	2-	15-	0-	W00075	39210	-0.14	513	30910	63	-61	11.2	45	3.1	4	1.8	24010	14.7	11320	43	0.5
56-	44.6125-	108.0283-	2-	15-	0-	W00076	46700	-0.10	565	9656	77	-63	5.7	45	3.6	4	1.6	16390	17.5	17480	41	0.5
56-	44.5958-	108.0214-	2-	15-	0-	W00077	38820	-0.10	1019	12580	55	-76	8.5	48	2.0	4	1.9	20410	13.7	11110	30	0.4
56-	44.5961-	108.0139-	2-	15-	0-	W00078	40250	-0.11	830	12930	51	-65	6.3	31	1.9	4	1.4	14060	11.7	14310	38	0.4
56-	44.5711-	108.0011-	2-	15-	0-	W00079	45270	-0.12	714	10640	63	-57	6.1	37	3.4	4	1.6	14390	13.7	20100	-12	0.4
56-	44.4794-	108.0250-	2-	15-	0-	W00080	30040	-0.08	457	7307	50	-49	3.1	32	2.0	4	1.3	8014	6.4	13120	29	0.2
56-	44.4435-	108.0169-	2-	15-	0-	W00081	53140	-0.14	741	16960	57	661	7.0	58	4.8	5	1.4	19310	10.6	21080	-12	0.3
56-	44.4847-	108.0719-	2-	15-	0-	W00082	48840	-0.13	575	29970	56	-56	7.8	50	4.1	4	1.6	19200	9.9	16820	38	0.4
56-	44.3042-	108.0811-	2-	15-	0-	W00083	31030	-0.09	501	6411	51	-37	5.9	33	3.5	4	1.3	13140	8.7	12130	30	0.3
56-	44.0014-	108.2289-	2-	15-	0-	W00084	49230	-0.12	510	14220	63	-51	9.0	50	5.0	5	1.5	19420	9.0	18630	33	0.4
56-	44.7536-	108.8589-	2-	15-	0-	W00085	40850	-0.13	739	23610	89	50	9.8	79	2.8	5	1.8	21000	25.9	12240	61	0.6
56-	44.7967-	108.9633-	2-	15-	0-	W00086	40180	0.50	529	24860	77	-69	9.4	69	2.3	6	1.6	19530	18.8	17210	46	0.6
56-	44.7967-	108.9656-	2-	15-	0-	W00087	72210	-0.16	881	26310	73	-95	13.2	66	5.5	5	1.4	23070	6.5	22620	42	0.3
56-	44.8267-	108.9800-	2-	15-	0-	W00088	50820	-0.16	644	21540	160	-81	14.1	141	4.3	7	2.2	35380	48.7	15670	81	0.9
56-	44.8111-	108.9617-	2-	15-	0-	W00089	52030	-0.13	626	30400	74	-77	12.6	77	3.8	5	1.6	24410	12.7	15780	49	0.4
56-	44.8183-	108.9506-	2-	15-	0-	W00090	40170	-0.11	704	25920	54	291	7.9	47	2.4	5	1.3	13930	8.1	14430		0.3
56-	44.8206-	108.9194-	2-	15-	0-	W00091	37820	-0.12	653	22900	52	-61	8.9	43	3.4	3	1.3	15870	6.5	13960	48	0.3
56-	44.8528-	108.9694-	2-	15-	0-	W00092	38590	-0.11	590	21810	50	-71	7.2	49	2.3	-1	1.2	13830	6.1	15460	25	0.2
56-	44.8456-	108.7589-	2-	15-	0-	W00093	51990	-0.11	731	10340	64	57	10.4	63	5.3	4	1.6	24270	7.2	18060	42	0.4
56-	44.9811-	108.9983-	2-	15-	0-	W00094	31360	-0.09	578	19190	48	-46	5.5	44	2.1	4	1.2	11780	15.1	12040	27	0.4
56-	44.9906-	108.9500-	2-	15-	0-	W00095	44290	-0.12	544	12530	56	-54	7.4	53	3.8	4	1.2	16420	8.7	13770	32	0.4
56-	44.9900-	108.9478-	2-	15-	0-	W00096	58450	-0.17	573	22900	74	-64	12.0	62	6.4	5	1.9	26790	8.2	19320	41	0.5
56-	44.9572-	108.9289-	2-	15-	0-	W00097	54870	-0.13	788	20080	77	98	11.5	72	5.5	5	1.9	25340	11.7	18520	53	0.4
56-	44.9522-	108.9989-	2-	15-	0-	W00098	60290	-0.14	640	13110	63	-51	12.0	71	5.5	5	1.6	24800	9.6	18790	45	0.4
56-	44.9272-	108.9628-	2-	15-	0-	W00099	59390	-0.14	563	14030	65	-58	9.3	58	4.7	5	1.3	21390	9.1	18520	42	0.3
56-	44.5397-	108.1908-	2-	15-	0-	W00100	52670	-0.15	695	10700	75	-52	11.1	61	5.6	5	1.9	26740	10.6	15920	-12	0.4
56-	44.5381-	108.1906-	2-	15-	0-	W00101	56690	-0.12	734	8524	70	47	11.1	66	5.7	5	1.9	24300	9.5	15610	43	0.4
56-	44.5872-	108.1564-	2-	15-	0-	W00102	20350	-0.10	405	83990	59	-62	13.6	59	6.6	4	1.5	30400	4.0	10700	33	0.4
56-	44.5853-	108.1561-	2-	15-	0-	W00103	47330	-0.06	601	21050	10	-102	3.2	13	1.3	4	0.5	3582	1.5	15180	-9	0.0
56-	44.5997-	108.1439-	2-	15-	0-	W00104	23100	-0.09	249	54090	60	-53	10.9	49	6.1	4	1.3	22100	5.7	13220	31	0.3

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

DOE SAMPLE NUMBER: STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued). Concentrations reported in weight parts per million (ppm): Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	U/Th RATIO
56-44.0028-108.1929-2-15-	0-W00054						12900	217	3403	52	-3	5.2	4.0	-160	-1	-1	8.9	2812	77	3.4	78	0.337
56-44.4903-108.4808-2-15-	0-W00055						14080	300	5065	54	-3	5.4	5.3	-169	-1	-1	9.4	2618	53	-1.6	42	0.277
56-44.4550-108.3839-2-15-	0-W00056						12250	222	3174	83	-3	5.4	4.8	-144	-1	-1	9.4	2648	69	2.6	81	0.319
56-44.4250-108.3917-2-15-	0-W00057						25520	423	10780	83	-4	9.3	6.6	511	-1	-1	10.6	3759	85	5.5	76	0.292
56-44.4356-108.3406-2-15-	0-W00058						11600	284	3557	34	-3	4.4	4.3	-174	-1	-1	6.9	2670	66	2.0	108	0.420
56-44.4336-108.3100-2-15-	0-W00059						17550	296	4558	96	-4	10.4	7.6	-190	-1	-1	12.4	3951	104	-2.2	102	0.282
56-44.4328-108.3106-2-15-	0-W00060						17500	233	3422	95	-4	11.3	8.7	-176	-1	-1	13.4	3942	110	4.4	122	0.261
56-44.4967-108.3489-2-15-	0-W00061						12320	272	5609	48	-3	5.5	5.8	-154	-1	-1	9.9	2820	69	3.5	85	0.263
56-44.4847-108.3133-2-15-	0-W00062						13920	302	3537	45	-3	5.4	5.4	-180	-1		7.1	2597	78	2.9	95	0.437
56-44.4833-108.2700-2-15-	0-W00063						13310	312	5450	83	-3	9.2	6.8	339	-1	-1	11.0	3289	96	-2.0	108	0.264
56-44.4817-108.2583-2-15-	0-W00064						12540	230	4503	43	-2	5.6	4.8	208	-1	-1	7.4	2262	58	3.8	64	0.284
56-44.5406-108.1522-2-15-	0-W00065						12780	286	3560	50	-3	6.8	5.4	-160	-1	-1	8.9	2713	84	-1.5	79	0.371
56-44.5469-108.1742-2-15-	0-W00066						11420	285	4452	58	-3	6.0	4.6	-177	-1	-1	8.5	2536	80	2.8	-61	0.341
56-44.5525-108.1775-2-15-	0-W00067						15320	293	5430	67	-3	8.1	4.6	-184	-1	-1	10.0	3542	86	3.3	115	0.300
56-44.5747-108.1894-2-15-	0-W00068						16270	283	6456	56	-3	7.0	5.2	-170	-1	-1	9.5	2819	60	-1.5	63	0.274
56-44.5050-108.0631-2-15-	0-W00069						13770	260	4501	44	-2	4.9	4.8	-153	-1	-1	7.5	2185	54	3.2	65	0.373
56-44.5317-108.0842-2-15-	0-W00070						11750	327	3939	45	-3	4.6	4.4	-192	-1	-1	7.9	2864	68	5.5	54	0.443
56-44.5331-108.0853-2-15-	0-W00071						11710	311	4402	-21	-3	5.9	5.7	-167	-1	-1	9.5	2917	63	-1.6	98	0.316
56-44.5636-108.1056-2-15-	0-W00072						13960	232	7390	56	-3	7.6	5.5	279	-1	-1	8.4	2554	65	2.8	60	0.345
56-44.5233-108.0117-2-15-	0-W00073						10330	315	6288	-19	-2	4.8	5.5	318	-1	-1	5.8	2034	39	2.4	37	0.448
56-44.6175-108.0461-2-15-	0-W00074						14190	540	5986	45	-3	5.2	5.3	-246	-1	-1	9.0	3047	65	3.8	-66	0.411
56-44.6017-108.0556-2-15-	0-W00075						11110	681	5215	47	-3	7.0	7.8	-243	-1	1	8.3	2721	48	3.8	66	0.373
56-44.6125-108.0283-2-15-	0-W00076						9749	227	7712	48	-2	5.7	5.5	331	-1	-1	11.0	3232	51	4.0	-47	0.300
56-44.5958-108.0214-2-15-	0-W00077						6524	522	8077	37	-2	4.3	4.6	-221	-1	-1	8.5	2454	59	-1.3	71	0.353
56-44.5961-108.0139-2-15-	0-W00078						7291	398	8590	32	-3	3.9	5.2	-218	-1	-1	8.2	2838	55	2.9	63	0.354
56-44.5711-108.0011-2-15-	0-W00079						5743	330	7355	84	-3	5.2	6.3	357	-1	-1	10.8	2701	49	-1.5	52	0.296
56-44.4794-108.0250-2-15-	0-W00080						4388	140	5000	38	-2	3.3	3.8	198			6.4	1574	39	2.2	27	0.313
56-44.4436-108.0169-2-15-	0-W00081						20900	197	7615	79	-3	6.8	-1.6	-188	-1	-1	10.2	3765	110	3.0	-74	0.363
56-44.4847-108.0719-2-15-	0-W00082						26970	232	7353	61	-3	6.9	-1.4	266	-1	-1	9.0	2670	88	-1.7	63	0.311
56-44.3042-108.0811-2-15-	0-W00083						9727	188	2260	44	-2	4.6	3.9	-125	-1	-1	7.4	2329	57	3.2	81	0.324
56-44.0014-108.2289-2-15-	0-W00084						15060	319	3304	57	-3	7.3	6.4	-172	-1	-1	9.7	3195	77	3.9	105	0.309
56-44.7536-108.9589-2-15-	0-W00085						15280	498	7513	59	-3	7.2	7.6	-204	-1	-1	17.9	4003	56	-1.7	78	0.229
56-44.7967-108.9633-2-15-	0-W00086						13060	509	6711	51	-3	6.3	7.7	-203	-1	-1	14.0	3337	49	6.1	96	0.257
56-44.7967-108.9656-2-15-	0-W00087						23530	422	14440	-25	-4	9.4	5.8	433	-1	-1	11.5	3496	107	3.1	109	0.339
56-44.8267-108.9800-2-15-	0-W00088						18670	758	5250	87	-4	11.0	11.0	-273	-1	-1	27.9	6476	90	8.4	78	0.215
56-44.8111-108.9617-2-15-	0-W00089						21500	528	6406	39	-3	8.1	5.7	-230	-1	-1	14.1	3470	74	3.7	83	0.241
56-44.8183-108.9506-2-15-	0-W00090						13230	442	2870	48	-2	4.4	5.7	-235	-1	-1	7.9	2472	51	3.3	73	0.342
56-44.8206-108.9194-2-15-	0-W00091						14760	406	7787	56	-3	5.0	4.6	-203	-1	-1	8.4	2136	44	-1.6	37	0.262
56-44.8528-108.9694-2-15-	0-W00092						16290	405	7333	52	-2	4.4	5.1	-199	-1	-1	8.4	2166	48	2.3	72	0.286
56-44.8456-108.7589-2-15-	0-W00093						15640	273	4402	62	-3	7.6	5.3	-173	-1	-1	10.1	2511	77	4.3	95	0.307
56-44.9811-108.9983-2-15-	0-W00094						15390	207	5364	40	-2	4.4	5.2	261	-1		7.2	2811	47	3.7	38	0.389
56-44.9906-108.9500-2-15-	0-W00095						14200	259	3994	59	-3	5.7	4.7	-166	-1	-1	8.3	3196	76	4.2	87	0.330
56-44.9900-108.9479-2-15-	0-W00096						25460	303	5199	91	-4	9.8	6.7	-188	-1	-1	12.3	3622	82	5.1	87	0.268
56-44.9572-108.9289-2-15-	0-W00097						22260	291	5164	-25	-3	8.7	6.3	-199	-1	-1	11.6	3211	75	3.9	88	0.302
56-44.9522-108.9989-2-15-	0-W00098						19180	334	4505	77	-3	8.9	6.8	-201	-1	-1	11.5	3848	100	3.5	-96	0.287
56-44.9272-108.9628-2-15-	0-W00099						16420	343	4577	61	-3	7.5	4.6	-193	-1	-1	9.6	3493	102	3.3	94	0.354
56-44.5397-108.1908-2-15-	0-W00100						12680	298	3450	68	-3	9.0	7.6	-173	-1	-1	12.2	3112	88	-2.1	105	0.320
56-44.5381-108.1906-2-15-	0-W00101						13010	251	3478	67	-3	9.2	7.6	-164	-1	-1	12.2	3054	97	3.7	110	0.336
56-44.5872-108.1564-2-15-	0-W00102						29820	279	3650	67	-3	10.9	5.8	575	-1	-1	11.0	2389	36	3.6	127	0.273
56-44.5853-108.1561-2-15-	0-W00103						15860	558	21250	-13	-1	1.2	-0.7	-287	-1		1.9	2487	61	-0.9	-31	2.158
56-44.5997-108.1439-2-15-	0-W00104						23830	349	3012	82	-2	7.4	5.0	314	-1	-1	10.9	1856	46	4.4	86	0.440

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																									
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.6097-108.2436-2-15-						0-W00105-08/05/75-10-			26-		-	-	-	-	-	8-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-						2.60
56-44.9653-108.1164-2-15-						0-W00106-08/05/75-12-			24-		-	-	-	-	-	14-1-7-4-4-	-	-	-2-3-3-3-1-	-1-	-	-	-	-	-						2.70
56-44.9472-108.0797-2-12-						0-W00107-08/05/75-12-			24-	17.5-	-	-	7.6-	2400-		12-1-7-4-6-3-3-1-2-2-2-5-1-				-1-	-	-	-	-	-						2.10
56-44.9342-108.0864-2-11-						0-W00108-08/05/75-13-			26-	13.0-	-	-	6.6-	650-		11-1-7-4-4-2-		-1-	-2-3-3-1-	-1-	-	-	-	-	-						2.60
56-44.9214-108.0605-2-11-						0-W00109-08/05/75-14-			26-	12.5-	-	-	6.8-	700-		6-1-7-4-6-2-		-1-	-2-2-3-1-	-1-	-	-	-	-	-						2.80
56-44.9153-108.0461-2-15-						0-W00110-08/05/75-14-			26-		-	-	-	-		4-1-7-4-6-	-	-	-2-3-3-3-1-	-1-	-	-	-	-	-						2.70
56-44.8903-108.0225-2-11-						0-W00111-08/05/75-15-			24-	10.0-	-	-	7.0-	350-		8-1-7-5-6-2-		-1-	-3-2-3-3-1-	-1-	-	-	-	-	-						2.80
56-44.9097-108.0153-2-11-						0-W00112-08/05/75-15-			26-	12.0-	-	-	6.6-	300-		4-1-7-5-4-2-		-1-	-3-2-3-3-1-	-1-	-	-	-	-	-						2.60
56-44.8636-108.1136-2-11-						0-W00113-08/05/75-15-			26-	14.0-	-	-	6.8-	700-		11-1-7-4-6-2-		-1-	-4-3-2-2-2-	-1-	-	-	-	-	-						2.20
56-44.8758-108.1056-2-15-						0-W00114-08/05/75-16-			24-		-	-	-	-		8-1-7-4-6-	-	-	-2-3-3-2-2-2-	-1-	-	-	-	-	-						2.20
56-44.8686-108.0503-2-15-						0-W00115-08/05/75-17-			25-		-	-	-	-		4-1-7-4-6-	-	-	-2-2-2-3-2-2-	-1-	-	-	-	-	-						2.50
56-44.6664-108.6783-2-15-						0-W00116-07/19/75-12-			28-		-	-	-	-		6-1-7-4-6-	-	-	-3-1-2-2-2-	-1-	-	-	-	-	-						5.40
56-44.6747-108.6733-2-15-						0-W00117-07/19/75-12-			28-		-	-	-	-		12-1-7-4-6-	-	-	-3-1-2-2-2-	-1-	-	-	-	-	-						3.20
56-44.6867-108.6461-2-12-						0-W00118-07/19/75-12-			28-	20.0-	-	-	7.2-	400-		12-1-7-4-6-3-3-1-			-3-2-2-2-2-	-1-	-	-	-	-	-						3.00
56-44.7317-108.6200-2-12-						0-W00119-07/19/75-12-			28-	18.0-	-	-	6.9-	450-		12-1-7-4-6-3-3-1-			-3-2-2-2-2-	-1-	-	-	-	-	-						3.00
56-44.7028-108.5289-2-15-						0-W00120-07/19/75-13-			29-		-	-	-	-		16-1-7-4-5-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.60
56-44.7122-108.5644-2-12-						0-W00121-07/19/75-13-			29-	20.0-	-	-	6.6-	190-		12-1-7-5-6-3-3-1-			-3-2-2-2-2-	-1-	-	-	-	-	-						3.50
56-44.6094-108.5178-2-15-						0-W00122-07/19/75-14-			30-		-	-	-	-		6-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.10
56-44.5642-108.6472-2-15-						0-W00123-07/19/75-14-			30-		-	-	-	-		11-1-7-4-5-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						2.70
56-44.5642-108.6447-2-15-						0-W00124-07/19/75-14-			30-		-	-	-	-		11-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						2.70
56-44.5583-108.5889-2-15-						0-W00125-07/19/75-15-			30-		-	-	-	-		19-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.10
56-44.5778-108.5750-2-15-						0-W00126-07/19/75-15-			30-		-	-	-	-		12-1-7-5-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.20
56-44.5467-108.5611-2-15-						0-W00127-07/19/75-16-			30-		-	-	-	-		16-1-7-4-5-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						4.70
56-44.5631-108.5314-2-15-						0-W00128-07/19/75-16-			30-		-	-	-	-		9-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.20
56-44.5633-108.5297-2-15-						0-W00129-07/19/75-16-			30-		-	-	-	-		8-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.20
56-44.5900-108.5406-2-15-						0-W00130-07/19/75-16-			30-		-	-	-	-		16-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.70
56-44.5872-108.5367-2-15-						0-W00131-07/19/75-17-			30-		-	-	-	-		12-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						2.80
56-44.5864-108.5208-2-15-						0-W00132-07/19/75-17-			30-		-	-	-	-		12-1-7-5-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.70
56-44.5878-108.5200-2-15-						0-W00133-07/19/75-17-			30-		-	-	-	-		9-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						2.80
56-44.6086-108.5250-2-15-						0-W00134-07/19/75-17-			30-		-	-	-	-		12-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.50
56-44.6325-108.5175-2-15-						0-W00135-07/19/75-17-			30-		-	-	-	-		9-1-7-5-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						4.10
56-44.6342-108.5097-2-15-						0-W00136-07/19/75-17-			30-		-	-	-	-		11-1-7-5-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						2.90
56-44.6428-108.5100-2-15-						0-W00137-07/19/75-17-			30-		-	-	-	-		9-1-7-5-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.60
56-44.6522-108.5172-2-15-						0-W00138-07/19/75-17-			30-		-	-	-	-		12-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						2.80
56-44.6483-108.5189-2-15-						0-W00139-07/19/75-17-			30-		-	-	-	-		12-1-7-5-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						4.00
56-44.6425-108.5722-2-12-						0-W00140-07/19/75-18-			30-	22.0-	-	-	6.1-	250-		9-1-7-4-6-3-3-1-			-3-2-2-2-2-	-1-	-	-	-	-	-						2.20
56-44.6522-108.5694-2-12-						0-W00141-07/19/75-18-			30-	20.0-	-	-	5.9-	240-		9-1-7-4-6-3-3-1-			-3-2-2-2-2-	-1-	-	-	-	-	-						2.50
56-44.6492-108.5993-2-15-						0-W00142-07/19/75-18-			30-		-	-	-	-		9-1-7-5-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.70
56-44.6478-108.5967-2-15-						0-W00143-07/19/75-18-			30-		-	-	-	-		12-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						2.90
56-44.6061-108.6700-2-15-						0-W00144-07/19/75-18-			30-		-	-	-	-		12-1-7-4-5-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						2.70
56-44.5867-108.6517-2-15-						0-W00145-07/19/75-18-			30-		-	-	-	-		11-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.20
56-44.5744-108.7028-2-15-						0-W00146-07/19/75-19-			27-		-	-	-	-		9-1-7-4-6-	-	-	-3-1-3-2-	-1-	-	-	-	-	-						2.80
56-44.5564-108.7394-2-15-						0-W00147-07/19/75-19-			27-		-	-	-	-		6-1-7-5-6-	-	-	-3-1-3-2-	-1-	-	-	-	-	-						4.00
56-44.5928-108.7011-2-15-						0-W00148-07/19/75-19-			27-		-	-	-	-		9-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.80
56-44.5939-108.7014-2-15-						0-W00149-07/19/75-19-			27-		-	-	-	-		9-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.00
56-44.5933-108.6872-2-15-						0-W00150-07/19/75-19-			27-		-	-	-	-		6-1-7-4-5-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						3.20
56-44.5917-108.7450-2-15-						0-W00151-07/19/75-19-			27-		-	-	-	-		6-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						2.70
56-44.8733-108.6556-2-12-						0-W00152-07/20/75-12-			30-	20.0-	-	-	6.8-	700-		12-1-7-4-7-3-3-1-			-3-2-2-2-2-	-1-	-	-	-	-	-						3.20
56-44.8839-108.5494-2-12-						0-W00153-07/20/75-12-			30-	15.0-	-	-	7.4-	1200-		6-1-7-4-6-3-3-1-			-3-2-2-2-2-	-1-	-	-	-	-	-						2.90
56-44.8850-108.5522-2-12-						0-W00154-07/20/75-12-			30-	22.0-	-	-	7.6-	1500-		12-1-7-4-6-3-3-1-			-3-2-2-2-2-	-1-	-	-	-	-	-						3.10
56-44.8778-108.6189-2-15-						0-W00155-07/20/75-13-			32-		-	-	-	-		6-1-7-4-6-	-	-	-3-2-2-2-2-	-1-	-	-	-	-	-						2.50

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-	44.6097-	108.2436-	2-	15-	0-	W00105	-5	-5	-5	17	-20	-15	15	-10	-15	2	31
56-	44.9553-	108.1154-	2-	15-	0-	W00106	-5	-5	-5	27	-20	38	-5	-10	-15	2	49
56-	44.9472-	108.0797-	2-	12-	0-	W00107	-5	7	-5	21	-20	15	7	-10	-15	1	19
56-	44.9342-	108.0864-	2-	11-	0-	W00108	-5	-5	-5	17	-20	-15	12	-10	-15	2	44
56-	44.9214-	108.0606-	2-	11-	0-	W00109	-5	-5	-5	13	-20	-15	-5	-10	-15	1	25
56-	44.9153-	108.0461-	2-	15-	0-	W00110	-5	-5	-5	29	-20	18	11	-10	-15	2	66
56-	44.8903-	108.0225-	2-	11-	0-	W00111	-5	-5	-5	19	-20	15	-5	-10	-15	1	28
56-	44.9097-	108.0153-	2-	11-	0-	W00112	-5	-5	-5	15	-20	16	-5	-10	-15	2	44
56-	44.8636-	108.1136-	2-	11-	0-	W00113	-5	-5	-5	24	-20	-15	9	-10	-15	2	25
56-	44.8758-	108.1056-	2-	15-	0-	W00114	-5	-5	-5	19	-20	-15	7	-10	-15	2	26
56-	44.8686-	108.0503-	2-	15-	0-	W00115	-5	-5	-5	17	-20	15	9	-10	-15	2	31
56-	44.6664-	108.6783-	2-	15-	0-	W00116	-5	-5	-5	14	-20	-15	6	-10	-15	1	13
56-	44.6747-	108.6733-	2-	15-	0-	W00117	-5	-5	-5	11	-20	19	8	-10	-15	2	22
56-	44.6867-	108.6461-	2-	12-	0-	W00118	-5	-5	-5	14	-20	-15	8	-10	-15	2	24
56-	44.7317-	108.6200-	2-	12-	0-	W00119	-5	-5	-5	15	-20	-15	9	-10	-15	2	17
56-	44.7028-	108.5289-	2-	15-	0-	W00120	-5	-5	-5	22	-20	18	16	-10	-15	2	37
56-	44.7122-	108.5644-	2-	12-	0-	W00121	-5	-5	-5	28	-20	-15	18	-10	-15	2	38
56-	44.6094-	108.5178-	2-	15-	0-	W00122	-5	-5	-5	22	-20	-15	9	-10	-15	2	24
56-	44.5642-	108.6472-	2-	15-	0-	W00123	-5	-5	-5	23	-20	-15	7	-10	-15	1	15
56-	44.5642-	108.6447-	2-	15-	0-	W00124	-5	-5	-5	11	-20	-15	-5	-10	-15	1	14
56-	44.5583-	108.5889-	2-	15-	0-	W00125	-5	-5	-5	18	-20	-15	8	-10	-15	2	18
56-	44.5778-	108.5750-	2-	15-	0-	W00126	-5	-5	-5	17	-20	19	14	-10	-15	2	27
56-	44.5467-	108.5611-	2-	15-	0-	W00127	-5	6	-5	13	-20	20	6	-10	-15	2	20
56-	44.5631-	108.5314-	2-	15-	0-	W00128	-5	-5	-5	16	-20	-15	10	-10	-15	2	18
56-	44.5633-	108.5297-	2-	15-	0-	W00129	-5	-5	-5	17	-20	-15	6	-10	-15	2	27
56-	44.5900-	108.5406-	2-	15-	0-	W00130	-5	-5	-5	14	-20	-15	13	-10	-15	2	33
56-	44.5872-	108.5367-	2-	15-	0-	W00131	-5	-5	-5	26	-20	-15	6	-10	-15	2	24
56-	44.5864-	108.5208-	2-	15-	0-	W00132	-5	-5	-5	30	-20	15	16	-10	-15	3	44
56-	44.5878-	108.5200-	2-	15-	0-	W00133	-5	-5	-5	14	-20	-15	8	-10	-15	2	17
56-	44.6086-	108.5250-	2-	15-	0-	W00134	-5	-5	-5	21	-20	-15	12	-10	-15	3	41
56-	44.6325-	108.5175-	2-	15-	0-	W00135	-5	-5	-5	27	-20	16	23	-10	-15	3	49
56-	44.6342-	108.5097-	2-	15-	0-	W00136	-5	-5	-5	15	-20	-15	14	-10	-15	2	28
56-	44.6428-	108.5100-	2-	15-	0-	W00137	-5	-5	-5	18	-20	-15	8	-10	-15	2	36
56-	44.6522-	108.5172-	2-	15-	0-	W00138	-5	-5	-5	13	-20	-15	10	-10	-15	2	22
56-	44.6483-	108.5189-	2-	15-	0-	W00139	-5	-5	-5	23	-20	16	19	-10	-15	3	50
56-	44.6425-	108.5722-	2-	12-	0-	W00140	-5	-5	-5	15	-20	-15	5	-10	-15	1	12
56-	44.6522-	108.5694-	2-	12-	0-	W00141	-5	-5	-5	15	-20	-15	-5	-10	-15	1	12
56-	44.6492-	108.5983-	2-	15-	0-	W00142	-5	-5	-5	18	-20	-15	17	-10	-15	2	40
56-	44.6478-	108.5967-	2-	15-	0-	W00143	-5	-5	-5	22	-20	-15	12	-10	-15	2	33
56-	44.6061-	108.6700-	2-	15-	0-	W00144	-5	-5	-5	10	-20	-15	5	-10	-15	1	17
56-	44.5867-	108.6517-	2-	15-	0-	W00145	-5	-5	-5	16	-20	-15	7	-10	-15	2	20
56-	44.5744-	108.7028-	2-	15-	0-	W00146	-5	-5	-5	12	-20	-15	7	-10	-15	1	11
56-	44.5564-	108.7394-	2-	15-	0-	W00147	-5	-5	-5	25	-20	20	14	-10	-15	3	47
56-	44.5928-	108.7011-	2-	15-	0-	W00148	-5	-5	-5	10	-20	-15	7	-10	-15	1	12
56-	44.5939-	108.7014-	2-	15-	0-	W00149	-5	-5	-5	16	-20	-15	-5	-10	-15	1	12
56-	44.5933-	108.6872-	2-	15-	0-	W00150	-5	-5	-5	13	-20	-15	10	-10	-15	1	15
56-	44.5917-	108.7450-	2-	15-	0-	W00151	-5	-5	-5	14	-20	-15	10	-10	-15	1	16
56-	44.8733-	108.5556-	2-	12-	0-	W00152	-5	-5	-5	12	-20	-15	7	-10	-15	2	19
56-	44.8839-	108.5494-	2-	12-	0-	W00153	-5	-5	-5	23	-20	-15	10	-10	-15	2	21
56-	44.8850-	108.5522-	2-	12-	0-	W00154	-5	-5	-5	15	-20	-15	12	-10	-15	2	33
56-	44.8778-	108.6189-	2-	15-	0-	W00155	-5	-5	-5	20	-20	-15	12	-10	-15	2	19

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.5097-	108.2436-	2-	15-	0-	W00135	28950	-0.09	437	20780	72	-60	9.9	46	5.0	5	1.8	18400	6.8	21080	36	0.3
56-	44.9653-	108.1164-	2-	15-	0-	W00136	32010	-0.08	566	15590	64	-68	12.1	72	4.3	4	1.5	25630	10.3	19320	29	0.4
56-	44.9472-	108.0797-	2-	12-	0-	W00137	23980	-0.06	353	49760	42	91	7.8	56	2.2	4	1.1	15570	7.6	16050	23	0.2
56-	44.9342-	108.0864-	2-	11-	0-	W00138	22780	-0.09	606	86110	49	145	8.1	65	2.9	4	1.2	18250	8.6	12450	28	0.4
56-	44.9214-	108.0606-	2-	11-	0-	W00139	23980	-0.08	449	52020	37	-70	5.8	48	1.8	4	0.9	12200	13.7	16190	22	0.4
56-	44.9153-	108.0461-	2-	15-	0-	W00110	13240	-0.09	214	62010	65	112	10.4	87	3.5	3	1.6	24860	14.6	10610	35	0.4
56-	44.8903-	108.0225-	2-	11-	0-	W00111	26640	-0.07	445	27570	34	-53	5.6	46	2.2	4	0.9	11970	12.4	17770	10	0.2
56-	44.9097-	108.0153-	2-	11-	0-	W00112	15840	-0.09	244	63300	44	130	7.8	54	3.5	3	1.0	19020	7.8	11380	26	0.3
56-	44.8636-	108.1136-	2-	11-	0-	W00113	22180	-0.09	335	82490	47	-60	9.0	42	3.6	4	1.5	20870	6.4	12400	23	0.3
56-	44.8758-	108.1056-	2-	15-	0-	W00114	16730	-0.07	372	48800	49	-52	7.5	38	2.9	3	1.4	14790	9.3	11150	20	0.3
56-	44.8686-	108.0503-	2-	15-	0-	W00115	22390	-0.08	939	46980	57	-68	9.3	51	2.6	3	1.5	19020	12.3	16790	28	0.4
56-	44.6664-	108.6783-	2-	15-	0-	W00116	18910	-0.07	493	35250	74	-70	5.0	41	1.6	3	2.5	11670	53.3	13460	36	0.7
56-	44.6747-	108.6733-	2-	15-	0-	W00117	11360	-0.09	3524	19500	62	-53	10.5	53	5.0	5	1.6	22870	10.9	8304	37	0.3
56-	44.6867-	108.6461-	2-	12-	0-	W00118	25690	-0.07	1173	17120	62	-56	9.0	45	3.7	4	1.5	15710	10.9	14630	30	0.5
56-	44.7317-	108.6200-	2-	12-	0-	W00119	19130	-0.07	535	19710	58	-49	9.1	63	1.7	4	1.7	18760	16.0	12940	33	0.4
56-	44.7028-	108.5289-	2-	15-	0-	W00120	22250	-0.09	1170	26750	63	-77	9.3	58	5.4	5	1.5	20730	5.9	15380	31	0.4
56-	44.7122-	108.5644-	2-	12-	0-	W00121	30140	-0.10	571	16570	64	-63	10.2	64	5.0	5	1.7	22750	9.9	18510	34	0.4
56-	44.6094-	108.5178-	2-	15-	0-	W00122	22790	-0.08	426	8932	65	-45	9.4	56	4.3	4	1.6	19320	9.2	14750	38	0.4
56-	44.5642-	108.6472-	2-	15-	0-	W00123	21150	-0.05	404	11190	47	-37	4.9	35	1.8	4	1.3	8668	14.9	14130	27	0.4
56-	44.5542-	108.6447-	2-	15-	0-	W00124	12930	-0.06	539	16150	40	-48	4.4	29	1.0	4	1.2	7485	11.3	12290	19	0.3
56-	44.5583-	108.5889-	2-	15-	0-	W00125	13800	-0.08	744	18180	62	-54	7.2	44	3.9	4	1.6	14600	13.3	11090	34	0.4
56-	44.5778-	108.5750-	2-	15-	0-	W00126	20520	-0.07	361	19560	54	76	8.2	53	4.9	4	1.5	18970	10.1	11250	25	0.4
56-	44.5467-	108.5611-	2-	15-	0-	W00127	28150	-0.09	568	10940	68	-63	8.1	71	4.3	5	1.9	18700	22.0	16580	37	0.5
56-	44.5631-	108.5314-	2-	15-	0-	W00128	19430	-0.08	1107	13410	58	-45	7.5	48	3.0	5	1.6	15080	16.6	11570	33	0.4
56-	44.5633-	108.5297-	2-	15-	0-	W00129	21480	-0.07	758	17980	69	-49	8.8	58	3.8	5	1.7	18130	13.2	15660	27	0.4
56-	44.5900-	108.5406-	2-	15-	0-	W00130	26720	-0.09	709	16140	55	-56	9.9	50	6.8	5	1.8	22740	6.9	17720	28	0.5
56-	44.5872-	108.5367-	2-	15-	0-	W00131	28110	-0.07	455	14360	50	-53	5.5	37	3.0	5	1.1	11530	7.4	16860	28	0.2
56-	44.5864-	108.5208-	2-	15-	0-	W00132	26690	-0.12	552	20380	75	240	11.6	62	6.6	5	1.9	25310	7.4	19180	36	0.5
56-	44.5878-	108.5200-	2-	15-	0-	W00133	23730	-0.07	335	13420	56	-40	7.5	48	4.3	4	1.5	15290	7.8	13420	27	0.3
56-	44.6086-	108.5250-	2-	15-	0-	W00134	23640	-0.09	719	18780	64	-55	10.0	52	6.0	5	1.7	20760	6.4	18140	30	0.3
56-	44.6325-	108.5175-	2-	15-	0-	W00135	29840	-0.11	1236	28380	65	-71	10.9	62	7.7	5	1.6	26270	5.6	18780	32	0.4
56-	44.6342-	108.5097-	2-	15-	0-	W00136	33510	-0.09	525	13140	60	-44	9.0	50	4.8	5	1.5	19860	6.1	14870	34	0.3
56-	44.6428-	108.5100-	2-	15-	0-	W00137	27160	-0.08	594	18520	74	-55	10.2	61	5.8	5	1.8	24100	8.4	17890	36	0.5
56-	44.6522-	108.5172-	2-	15-	0-	W00138	28020	-0.07	577	12450	56	-44	7.8	36	3.9	5	1.5	16710	6.5	15340	29	0.4
56-	44.6483-	108.5189-	2-	15-	0-	W00139	27110	-0.11	757	19520	73	-68	10.3	56	6.6	5	1.6	25390	4.4	19380	38	0.3
56-	44.6425-	108.5722-	2-	12-	0-	W00140	27150	-0.06	319	9795	39	-36	5.0	24	-0.8	4	1.2	8327	9.5	13630	23	0.3
56-	44.6522-	108.5494-	2-	12-	0-	W00141	11730	-0.05	560	17580	47	581	4.6	37	-0.8	3	1.3	8526	12.5	11920	21	0.4
56-	44.6492-	108.5983-	2-	15-	0-	W00142	16140	-0.09	964	22300	72	297	10.3	61	7.1	5	1.7	26820	7.6	16930	33	0.4
56-	44.6478-	108.5967-	2-	15-	0-	W00143	27040	-0.07	452	12400	54	-46	6.1	36	3.7	4	1.2	15580	6.7	15650	27	0.3
56-	44.6061-	108.6700-	2-	15-	0-	W00144	20490	-0.05	534	21420	55	-55	7.0	32	2.5	4	1.4	11110	11.4	14160	26	0.4
56-	44.5867-	108.6517-	2-	15-	0-	W00145	15880	-0.06	573	19650	63	-49	7.0	50	3.4	4	1.7	14860	17.3	13690	36	0.5
56-	44.5744-	108.7028-	2-	15-	0-	W00146	17980	-0.06	521	13040	50	-53	3.8	23	2.2	5	1.2	7862	15.3	15820	20	0.4
56-	44.5564-	108.7394-	2-	15-	0-	W00147	34870	-0.12	481	17260	104	-59	16.6	74	9.8	6	2.2	35870	6.3	20960	50	0.4
56-	44.5928-	108.7011-	2-	15-	0-	W00148	25500	-0.06	357	9521	66	-35	6.9	36	2.2	4	1.1	12140	29.1	14310	34	0.5
56-	44.5939-	108.7014-	2-	15-	0-	W00149	12570	-0.06	1213	25700	44	-58	4.2	30	1.9	4	1.3	7859	16.8	10720	23	0.4
56-	44.5933-	108.6872-	2-	15-	0-	W00150	12840	-0.07	618	16080	55	104	6.3	42	2.6	4	1.5	13670	17.0	13000	35	0.4
56-	44.5917-	108.7450-	2-	15-	0-	W00151	17640	-0.06	657	20790	51	-51	6.1	32	1.8	5	1.5	10270	14.0	12230	28	0.4
56-	44.8733-	108.6556-	2-	12-	0-	W00152	17040	0.39	378	81630	70	823	6.7	52	2.9	2	1.6	14830	18.4	12230	38	0.4
56-	44.8839-	108.5494-	2-	12-	0-	W00153	25130	-0.07	527	55250	67	840	9.6	48	4.8	4	1.7	19420	9.5	15010	36	0.4
56-	44.8850-	108.5522-	2-	12-	0-	W00154	23900	-0.08	539	16330	54	82	6.3	45	3.8	4	1.4	14690	10.3	16200	27	0.3
56-	44.8778-	108.5189-	2-	15-	0-	W00155	22050	-0.07	528	20340	52	-58	6.1	42	3.3	4	1.3	15660	11.2	12760	29	0.3

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

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.6097-108.2436-2-15-				0-	W00105		14990	469	4572	58	-2	7.2	5.5	-195	-1	-1	9.3	2043	55	-1.4	91	0.265
56-44.9653-108.1164-2-15-				0-	W00106		14210	258	11110	-23	-2	8.7	4.8	-194	-1		10.0	2172	37	4.6	98	0.270
56-44.9472-108.0797-2-12-				0-	W00107		46130	244	4370	-18	-2	5.5	3.3	-162	-1	-1	6.8	3016	44	2.4	63	0.309
56-44.9342-108.0864-2-11-				0-	W00108		66290	342	9476	-22	-2	6.4	3.7	-215	-1	-1	7.8	2194	47	2.5	98	0.333
56-44.9214-108.0606-2-11-				0-	W00109		35750	335	5406	45	-2	4.7	3.3	297	-1	-1	6.1	2260	48	2.1	33	0.459
56-44.9153-108.0461-2-15-				0-	W00110		56530	143	3192	69	-2	3.7	5.9	-158	-1	-1	10.1	1628	32	3.0	-101	0.267
56-44.8903-108.0225-2-11-				0-	W00111		30900	374	6994	-18	-2	4.4	3.2	-212	-1	-1	5.1	2745	45	2.5	-43	0.549
56-44.9097-108.0153-2-11-				0-	W00112		59740	164	3270	-23	-2	6.6	4.1	305	-1	-1	7.0	1473	29	-1.4	-44	0.371
56-44.8636-108.1136-2-11-				0-	W00113		53110	199	3231	-24	-2	6.8	4.4	474	-1	-1	7.4	2428	48	2.3	70	0.297
56-44.8758-108.1056-2-15-				0-	W00114		19590	233	5395	41	-2	5.5	3.7	269	-1	-1	6.0	1450	29	2.0	69	0.367
56-44.8686-108.0503-2-15-				0-	W00115		19410	439	8979	75	-2	6.9	4.8	353	-1	-1	7.9	1966	31	2.8	96	0.316
56-44.6664-108.6783-2-15-				0-	W00116		19220	273	10740	-16	-2	4.0	5.7	-166	-1	-1	11.3	1798	30	4.8	48	0.478
56-44.6747-108.6733-2-15-				0-	W00117		11070	508	2573	62	-2	7.3	5.2	-194	-1	-1	9.7	4049	35	2.8	78	0.330
56-44.6867-108.6461-2-12-				0-	W00118		13800	439	4863	59	-2	5.5	4.9	-222	-1	-1	8.9	2453	55	3.6	35	0.337
56-44.7317-108.6200-2-12-				0-	W00119		14750	388	4458	-20	-2	6.4	5.7	-185	-1	-1	8.3	2054	33	2.6	58	0.361
56-44.7028-108.5289-2-15-				0-	W00120		20040	508	5345	44	-2	7.4	5.6	-252	-1	-1	9.8	2714	60	-1.8	120	0.367
56-44.7122-108.5644-2-12-				0-	W00121		17150	347	4317	59	-2	8.1	6.1	-190	-1	-1	11.2	2702	64	3.2	80	0.313
56-44.6094-108.5178-2-15-				0-	W00122		13340	209	4032	51	-2	6.9	4.8	-157	-1	-1	9.5	2513	45	3.4	84	0.325
56-44.5642-108.6472-2-15-				0-	W00123		11140	245	3049	43	-1	3.3	4.6	-144	-1		7.4	2174	47	2.6	45	0.365
56-44.5642-108.6447-2-15-				0-	W00124		11200	333	3562	30	-1	2.9	3.8	-161	-1		6.5	1734	22	2.3	25	0.415
56-44.5583-108.5889-2-15-				0-	W00125		11090	376	3726	50	-2	5.5	5.3	-176	-1	-1	9.5	1633	27	3.5	56	0.326
56-44.5778-108.5750-2-15-				0-	W00126		12980	420	2991	70	-2	7.0	5.2	-190	-1	-1	9.0	2079	38	2.8	104	0.356
56-44.5467-108.5611-2-15-				0-	W00127		14200	237	5568	70	-2	5.9	4.9	-171	-1	-1	10.6	2908	63	5.0	63	0.443
56-44.5631-108.5314-2-15-				0-	W00128		10760	387	2342	45	-2	5.5	5.5	-165	-1	-1	9.6	2513	52	3.0	-12	0.333
56-44.5633-108.5297-2-15-				0-	W00129		14590	350	4056	59	-2	6.5	5.8	-195	-1	-1	9.7	2345	47	3.3	69	0.330
56-44.5930-108.5406-2-15-				0-	W00130		17770	384	5367	76	-2	8.7	5.9	-211	-1	-1	11.1	2769	53	2.5	139	0.333
56-44.5972-108.5367-2-15-				0-	W00131		15450	295	3882	37	-2	4.4	4.2	-169	-1	-1	7.1	2859	60	3.2	53	0.394
56-44.5864-108.5208-2-15-				0-	W00132		17410	387	5594	66	-3	9.5	7.0	-222	-1	-1	13.1	2427	52	-1.8	-89	0.282
56-44.5878-108.5200-2-15-				0-	W00133		13750	281	2431	42	-2	5.6	5.3	-169	-1		9.0	1965	48	3.0	73	0.311
56-44.6086-108.5250-2-15-				0-	W00134		14480	471	4050	68	-2	7.7	5.7	-226	-1	-1	11.4	2266	51	4.0	119	0.307
56-44.6325-108.5175-2-15-				0-	W00135		17080	703	4016	98	-2	9.7	5.5	-273	-1	-1	12.3	3208	60	2.7	141	0.333
56-44.6342-108.5097-2-15-				0-	W00136		15800	304	2106	51	-2	6.9	5.1	-166	-1	-1	9.0	2398	66	3.4	90	0.322
56-44.6428-108.5100-2-15-				0-	W00137		17940	375	4568	75	-2	8.6	6.5	-217	-1	-1	11.2	2113	50	3.6	98	0.321
56-44.6522-108.5172-2-15-				0-	W00138		15030	300	3214	68	-2	5.9	5.0	-177	-1	-1	9.1	2859	64	2.5	73	0.308
56-44.6483-108.5189-2-15-				0-	W00139		16860	403	5043	71	-2	9.3	6.0	-221	-1	-1	11.3	2793	54	3.4	130	0.354
56-44.6425-108.5722-2-12-				0-	W00140		13090	233	1798	39	-1	2.8	4.2	-131	-1	-1	6.2	2270	57	2.0	46	0.355
56-44.6522-108.5694-2-12-				0-	W00141		9977	339	4519	43	2	3.1	4.1	-135	-1		7.3	1345	21	2.6	22	0.342
56-44.6492-108.5983-2-15-				0-	W00142		13130	474	5498	77	-2	9.6	6.0	-247	-1	-1	12.7	2267	32	4.5	131	0.291
56-44.6478-108.5967-2-15-				0-	W00143		14370	256	2435	44	-2	5.4	4.0	-157	-1		8.3	2247	54	3.1	74	0.349
56-44.6061-108.6700-2-15-				0-	W00144		13410	328	5434	51	-1	4.2	4.8	-199	-1	-1	8.2	2285	45	3.1	60	0.329
56-44.5867-108.6517-2-15-				0-	W00145		13070	405	4568	54	-1	5.6	5.5	-189	-1	-1	10.5	2177	26	4.1	87	0.305
56-44.5744-108.7028-2-15-				0-	W00146		13400	355	4709	31	-1	3.3	4.5	-173	-1	-1	7.5	2407	32	3.3	37	0.368
56-44.5564-108.7394-2-15-				0-	W00147		22350	341	3349	117	-3	12.7	7.9	-240	-1	-1	16.1	3201	67	4.9	145	0.248
56-44.5928-108.7011-2-15-				0-	W00148		11440	232	2092	37	-1	4.3	6.4	-149	-1	-1	13.5	2236	48	3.6	52	0.281
56-44.5939-108.7014-2-15-				0-	W00149		10720	444	3245	-14	-1	3.6	4.4	-228	-1	-1	7.2	2149	26	2.8	44	0.417
56-44.5933-108.6872-2-15-				0-	W00150		11410	337	4276	42	-2	4.9	5.0	-164	-1	-1	9.8	1737	21	3.7	-20	0.327
56-44.5917-108.7450-2-15-				0-	W00151		15630	399	4013	64	-1	3.8	4.4	-199	-1	1	8.1	2103	32	3.1	-36	0.333
56-44.8733-108.6556-2-12-				0-	W00152		20930	307	10760	-22	-2	5.1	5.6	1552	-1	-1	10.9	1371	22	4.1	79	0.294
56-44.8839-108.5494-2-12-				0-	W00153		32200	292	11200	54	-2	5.5	6.2	629	-1	-1	9.8	1395	44	3.2	62	0.296
56-44.8850-108.5522-2-12-				0-	W00154		16510	315	7800	50	-2	5.6	3.9	-193	-1	-1	7.8	2559	39	-1.7	93	0.397
56-44.8778-108.6189-2-15-				0-	W00155		15110	205	6579	43	-2	5.1	4.7	-147	-1	-1	7.8	1833	51	4.2	64	0.321

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	44.9328-	103.5939-	2-	12-		0-W00156-	07/20/76-	14-	32-	17.0-	-	-	7.4-	600-		3-1-7-4-6-	3-3-1-	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
56-	44.9789-	103.5744-	2-	15-		0-W00157-	07/20/76-	15-	34-		-	-	-	-		9-1-7-5-5-	- - - -	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
56-	44.9533-	103.6661-	2-	15-		0-W00158-	07/20/76-	15-	34-		-	-	-	-		12-1-7-4-5-	- - - -	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-	44.9522-	108.6706-	2-	15-		0-W00159-	07/20/76-	15-	34-		-	-	-	-		9-1-7-4-6-	- - - -	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-	44.9017-	108.7133-	2-	15-		0-W00160-	07/20/76-	15-	34-		-	-	-	-		6-1-7-5-5-	- - - -	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
56-	44.8989-	108.7222-	2-	15-		0-W00161-	07/20/76-	14-	35-		-	-	-	-		9-1-7-4-6-	- - - -	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
56-	44.8900-	108.6889-	2-	15-		0-W00162-	07/20/76-	15-	35-		-	-	-	-		6-1-7-4-5-	- - - -	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
56-	44.8667-	108.7000-	2-	12-		0-W00163-	07/20/76-	16-	35-	17.0-	-	-	7.2-	3500-		6-1-7-4-6-3-3-1-		-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-	44.7850-	108.7400-	2-	12-		0-W00164-	07/20/76-	17-	35-	20.0-	-	-	7.4-	600-		9-1-7-4-6-3-3-1-		-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
56-	44.7783-	108.6650-	2-	12-		0-W00165-	07/20/76-	18-	27-	22.0-	-	-	7.2-	700-		6-1-7-4-6-3-3-1-		-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
56-	44.7936-	108.6306-	2-	12-		0-W00166-	07/20/76-	19-	27-	22.0-	-	-	7.2-	250-		16-1-7-6-8-3-3-1-		-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
56-	44.7831-	108.5122-	2-	12-		0-W00167-	07/20/76-	19-	27-	22.0-	-	-	6.8-	600-		6-1-7-4-6-3-3-1-		-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-	44.7567-	108.5539-	2-	12-		0-W00168-	07/20/76-	19-	27-	19.0-	-	-	6.9-	500-		12-1-7-4-6-3-3-1-		-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
56-	44.7272-	108.6739-	2-	12-		0-W00169-	07/20/76-	19-	25-	21.0-	-	-	6.8-	600-		9-1-7-5-6-3-3-1-		-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-	44.8194-	108.4678-	2-	12-		0-W00170-	07/23/76-	9-	26-	17.0-	-	-	6.9-	600-		16-1-7-4-6-3-3-1-		-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
56-	44.7875-	108.4056-	2-	12-		0-W00171-	07/23/76-	9-	26-	18.0-	-	-	6.8-	270-		16-1-7-5-6-3-3-1-		-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-	44.7958-	108.4317-	2-	12-		0-W00172-	07/23/76-	9-	26-	18.0-	-	-	6.6-	700-		5-1-7-4-6-3-3-1-		-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
56-	44.7761-	108.4989-	2-	12-		0-W00173-	07/23/76-	9-	26-	17.0-	-	-	6.9-	400-		9-1-7-4-6-3-3-1-		-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-	44.7361-	108.4889-	2-	15-		0-W00174-	07/23/76-	10-	28-		-	-	-	-		16-1-7-4-5-	- - - -	-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
56-	44.6983-	108.4767-	2-	15-		0-W00175-	07/23/76-	10-	28-		-	-	-	-		9-1-7-4-6-	- - - -	-3-1-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-	44.6986-	108.4750-	2-	15-		0-W00176-	07/23/76-	10-	28-		-	-	-	-		6-1-7-4-6-	- - - -	-3-1-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-	44.6461-	108.4528-	2-	15-		0-W00177-	07/23/76-	10-	28-		-	-	-	-		12-1-7-4-7-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
56-	44.6600-	108.3983-	2-	15-		0-W00178-	07/23/76-	10-	28-		-	-	-	-		16-1-7-4-5-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
56-	44.6600-	108.3933-	2-	15-		0-W00179-	07/23/76-	10-	28-		-	-	-	-		12-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
56-	44.6650-	108.3967-	2-	15-		0-W00180-	07/23/76-	10-	28-		-	-	-	-		16-1-7-5-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.60
56-	44.7228-	108.3528-	2-	15-		0-W00181-	07/23/76-	11-	34-		-	-	-	-		12-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
56-	44.6272-	108.3172-	2-	15-		0-W00182-	07/23/76-	12-	36-		-	-	-	-		12-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
56-	44.6283-	108.3411-	2-	15-		0-W00183-	07/23/76-	12-	36-		-	-	-	-		16-1-7-4-5-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
56-	44.6900-	108.4022-	2-	15-		0-W00184-	07/23/76-	12-	36-		-	-	-	-		12-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
56-	44.6917-	108.4117-	2-	15-		0-W00185-	07/23/76-	12-	36-		-	-	-	-		16-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00
56-	44.7103-	108.4017-	2-	15-		0-W00186-	07/23/76-	12-	36-		-	-	-	-		16-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-	44.7081-	108.4239-	2-	15-		0-W00187-	07/23/76-	13-	39-		-	-	-	-		19-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
56-	44.7250-	108.4244-	2-	15-		0-W00188-	07/23/76-	13-	39-		-	-	-	-		9-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
56-	44.7228-	108.4289-	2-	15-		0-W00189-	07/23/76-	13-	39-		-	-	-	-		9-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
56-	44.7242-	108.4309-	2-	15-		0-W00190-	07/23/76-	13-	39-		-	-	-	-		12-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
56-	44.7383-	108.4381-	2-	15-		0-W00191-	07/23/76-	13-	39-		-	-	-	-		19-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
56-	44.7564-	108.4419-	2-	15-		0-W00192-	07/23/76-	13-	39-		-	-	-	-		16-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
56-	44.7622-	108.4278-	2-	15-		0-W00193-	07/23/76-	13-	39-		-	-	-	-		9-1-7-4-6-	- - - -	-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-	44.8017-	108.3272-	2-	15-		0-W00194-	07/23/76-	14-	42-		-	-	-	-		16-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-	44.8033-	108.3111-	2-	15-		0-W00195-	07/23/76-	14-	42-		-	-	-	-		16-1-7-4-4-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-	44.7672-	108.3694-	2-	15-		0-W00196-	07/23/76-	14-	42-		-	-	-	-		9-1-7-4-2-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
56-	44.7800-	108.3456-	2-	15-		0-W00197-	07/23/76-	14-	42-		-	-	-	-		12-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-	44.7511-	108.3550-	2-	15-		0-W00198-	07/23/76-	14-	42-		-	-	-	-		9-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-	44.7694-	108.3322-	2-	15-		0-W00199-	07/23/76-	15-	43-		-	-	-	-		5-1-7-5-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.90
56-	44.7583-	108.3189-	2-	15-		0-W00200-	07/23/76-	15-	43-		-	-	-	-		6-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
56-	44.7528-	108.3106-	2-	15-		0-W00201-	07/23/76-	15-	43-		-	-	-	-		12-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40
56-	44.7539-	108.3089-	2-	15-		0-W00202-	07/23/76-	15-	43-		-	-	-	-		12-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-	44.6772-	108.2872-	2-	15-		0-W00203-	07/23/76-	15-	43-		-	-	-	-		9-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
56-	44.6850-	108.2550-	2-	15-		0-W00204-	07/23/76-	15-	43-		-	-	-	-		9-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
56-	44.6336-	108.2528-	2-	15-		0-W00205-	07/23/76-	15-	43-		-	-	-	-		9-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.60
56-	44.6878-	108.2517-	2-	15-		0-W00206-	07/23/76-	15-	43-		-	-	-	-		12-1-7-4-6-	- - - -	-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.9328-108.5939-2-12-						0-W00156	-5	-5	-5	15	-20	-15	12	-10	-15	2	36
56-44.9789-108.5744-2-15-						0-W00157	-5	-5	-5	18	-20	19	10	-10	-15	2	43
56-44.9533-108.6661-2-15-						0-W00158	-5	-5	-5	20	-20	-15	9	-10	-15	2	25
56-44.9522-108.6706-2-15-						0-W00159	-5	-5	-5	28	-20	-15	9	-10	-15	2	27
56-44.9017-108.7133-2-15-						0-W00160	-5	-5	-5	27	-20	19	16	-10	-15	2	27
56-44.8989-108.7222-2-15-						0-W00161	-5	6	-5	19	-20	-15	9	-10	-15	2	22
56-44.8900-108.6989-2-15-						0-W00162	-5	-5	-5	14	-20	-15	-5	-10	-15	1	13
56-44.8667-108.7000-2-12-						0-W00163	-5	-5	-5	25	-20	17	11	-10	-15	2	26
56-44.7850-108.7400-2-12-						0-W00164	-5	-5	-5	17	-20	-15	10	-10	-15	2	15
56-44.7783-108.6650-2-12-						0-W00165	-5	6	-5	19	-20	-15	11	-10	-15	1	12
56-44.7936-108.6306-2-12-						0-W00166	-5	-5	-5	21	-20	-15	17	-10	-15	2	28
56-44.7831-108.5122-2-12-						0-W00167	-5	-5	-5	19	-20	-15	7	-10	-15	2	13
56-44.7567-108.5539-2-12-						0-W00168	-5	-5	-5	15	-20	-15	-5	-10	-15	1	13
56-44.7272-108.6739-2-12-						0-W00169	-5	-5	-5	34	-20	15	12	-10	18	2	28
56-44.8194-108.4678-2-12-						0-W00170	-5	-5	-5	21	-20	-15	13	-10	16	2	26
56-44.7875-108.4056-2-12-						0-W00171	-5	-5	-5	15	-20	15	7	-10	-15	2	21
56-44.7958-108.4317-2-12-						0-W00172	-5	-5	-5	18	-20	15	12	-10	-15	2	21
56-44.7761-108.4989-2-12-						0-W00173	-5	-5	-5	23	-20	-15	12	-10	-15	2	25
56-44.7361-108.4889-2-15-						0-W00174	-5	-5	-5	26	-20	-15	7	-10	-15	2	20
56-44.6983-108.4767-2-15-						0-W00175	-5	-5	-5	20	-20	24	12	-10	-15	2	32
56-44.6986-108.4750-2-15-						0-W00176	-5	-5	-5	23	-20	17	7	-10	-15	2	29
56-44.6461-108.4528-2-15-						0-W00177	-5	-5	-5	24	-20	15	11	-10	-15	2	23
56-44.6600-108.3983-2-15-						0-W00178	-5	-5	-5	15	-20	16	10	-10	-15	3	32
56-44.6600-108.3933-2-15-						0-W00179	-5	-5	-5	25	-20	15	13	-10	-15	2	26
56-44.6650-108.3967-2-15-						0-W00180	-5	-5	-5	22	-20	18	14	-10	-15	2	30
56-44.7228-108.3528-2-15-						0-W00181	-5	-5	-5	36	-20	30	17	-10	-15	2	30
56-44.6272-108.3172-2-15-						0-W00182	-5	-5	-5	25	-20	17	10	-10	-15	2	32
56-44.6283-108.3411-2-15-						0-W00183	-5	-5	-5	16	-20	-15	14	-10	-15	3	37
56-44.6900-108.4022-2-15-						0-W00184	-5	-5	-5	30	-20	24	10	-10	-15	2	28
56-44.6917-108.4117-2-15-						0-W00185	-5	-5	-5	22	-20	-15	12	-10	-15	2	24
56-44.7103-108.4017-2-15-						0-W00186	-5	-5	-5	27	-20	16	8	-10	-15	2	28
56-44.7081-108.4239-2-15-						0-W00187	-5	-5	-5	23	-20	-15	11	-10	16	2	26
56-44.7250-108.4244-2-15-						0-W00188	-5	-5	-5	19	-20	23	11	-10	-15	2	15
56-44.7228-108.4289-2-15-						0-W00189	-5	-5	-5	24	-20	-15	15	-10	-15	2	24
56-44.7242-108.4308-2-15-						0-W00190	-5	-5	-5	17	-20	-15	10	-10	-15	2	24
56-44.7383-108.4381-2-15-						0-W00191	-5	-5	-5	21	-20	-15	9	-10	-15	2	23
56-44.7564-108.4419-2-15-						0-W00192	-5	-5	-5	25	-20	-15	13	-10	-15	2	34
56-44.7622-108.4278-2-15-						0-W00193	-5	-5	-5	21	-20	-15	8	-10	-15	2	23
56-44.8017-108.3272-2-15-						0-W00194	-5	-5	-5	16	-20	-15	7	-10	-15	2	31
56-44.8033-108.3111-2-15-						0-W00195	-5	-5	-5	13	-20	38	7	-10	-15	2	27
56-44.7672-108.3694-2-15-						0-W00196	-5	-5	-5	28	-20	-15	13	-10	-15	3	25
56-44.7800-108.3456-2-15-						0-W00197	-5	-5	-5	20	-20	-15	-5	-10	-15	2	20
56-44.7511-108.3550-2-15-						0-W00198	-5	-5	-5	18	-20	-15	12	-10	-15	2	19
56-44.7694-108.3322-2-15-						0-W00199	-5	-5	-5	23	-20	19	13	-10	-15	3	46
56-44.7583-108.3189-2-15-						0-W00200	-5	-5	-5	17	-20	16	10	-10	-15	2	27
56-44.7528-108.3106-2-15-						0-W00201	-5	-5	-5	20	-20	-15	7	-10	-15	2	26
56-44.7539-108.3089-2-15-						0-W00202	-5	-5	-5	16	-20	-15	5	-10	-15	2	33
56-44.6772-108.2872-2-15-						0-W00203	-5	-5	-5	18	-20	17	17	-10	-15	2	30
56-44.6850-108.2550-2-15-						0-W00204	-5	-5	-5	15	-20	-15	6	-10	-15	2	31
56-44.6836-108.2528-2-15-						0-W00205	-5	-5	-5	16	-20	-15	15	-10	-15	3	34
56-44.6878-108.2517-2-15-						0-W00206	-5	-5	-5	21	-20	-15	8	-10	-15	2	27

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.9328-	108.5939-2-12-				0-W00156	25290	-0.08	771	18780	52	122	7.4	39	3.3	5	1.2	15170	6.7	15460	27	0.4
56-	44.9789-	108.5744-2-15-				0-W00157	23840	-0.09	575	11550	72	-61	12.3	73	6.6	4	2.0	28560	7.7	16030	38	0.4
56-	44.9533-	108.6661-2-15-				0-W00158	25130	-0.07	537	15770	55	-52	6.2	39	3.2	4	1.3	15140	7.6	14650	20	0.3
56-	44.9522-	108.6706-2-15-				0-W00159	32360	-0.09	639	17310	70	-81	10.1	60	6.0	5	1.7	23620	7.2	20760	42	0.5
56-	44.9017-	108.7133-2-15-				0-W00160	34280	-0.09	595	17850	82	-70	12.1	69	6.4	5	1.9	29500	7.9	22760	42	0.4
56-	44.8989-	108.7222-2-15-				0-W00161	26000	-0.06	497	10980	63	-51	7.4	41	3.1	4	1.5	14380	8.3	14750	30	0.3
56-	44.8900-	108.6889-2-15-				0-W00162	20550	-0.06	541	13320	51	-58	5.0	32	2.6	4	1.1	10700	10.2	11450	27	0.3
56-	44.8667-	108.7000-2-12-				0-W00163	21600	-0.08	515	15630	68	-60	8.8	45	3.2	4	1.6	19380	11.3	15140	36	0.4
56-	44.7850-	108.7400-2-12-				0-W00164	26190	-0.08	473	5429	56	-43	9.0	52	3.6	4	1.5	18970	8.1	13440	32	0.3
56-	44.7783-	108.6650-2-12-				0-W00165	23820	-0.07	624	11950	59	-54	8.5	57	2.4	4	1.5	17160	11.0	14710	29	0.4
56-	44.7936-	108.6306-2-12-				0-W00166	31220	-0.10	1016	19230	68	-79	11.6	59	6.3	6	1.6	28260	5.5	22350	38	0.4
56-	44.7931-	108.5122-2-12-				0-W00167	23990	-0.04	519	11660	10	-55	2.5	7	1.3	4	0.5	2911	2.0	14190		0.3
56-	44.7567-	108.5539-2-12-				0-W00168	25190	-0.25	363	18850	53	-46	4.2	31	1.8	4	1.3	8867	17.5	13270	-51	0.4
56-	44.7272-	108.6739-2-12-				0-W00169	59120	-0.55	710	29280	78	-85	19.6	131	5.3	4	1.9	43480	8.6	16360	-86	0.4
56-	44.8194-	108.4678-2-12-				0-W00170	53970	-0.36	674	37890	62	264	12.5	79	3.1	4	1.5	25640	6.5	16030	-65	0.5
56-	44.7875-	108.4055-2-12-				0-W00171	35120	-0.33	590	27990	59	-66	9.5	38	2.4	3	1.1	13520	11.2	14080	-52	0.3
56-	44.7958-	108.4317-2-12-				0-W00172	46260	-0.44	687	17470	78	171	11.8	76	4.9	5	2.0	24450	15.4	16690	-85	0.4
56-	44.7761-	108.4989-2-12-				0-W00173	46810	-0.32	671	19060	60	-64	8.2	42	3.1	4	1.5	15760	10.2	16130	-77	0.5
56-	44.7361-	108.4889-2-15-				0-W00174	40990	-0.32	489	10210	58	-59	6.5	43	3.0	3	1.0	13480	7.1	12670	-52	0.2
56-	44.6983-	108.4767-2-15-				0-W00175	50440	-0.43	645	14970	79	-65	13.2	75	5.0	4	1.9	27870	13.2	17640	-79	0.5
56-	44.6986-	108.4750-2-15-				0-W00176	52810	-0.37	632	15550	71	-60	11.0	63	4.3	4	1.7	23450	9.8	17620	-57	0.4
56-	44.6461-	108.4528-2-15-				0-W00177	41560	-0.32	606	13590	63	-50	8.7	53	4.1	4	1.6	18300	15.9	13930	-66	0.4
56-	44.6600-	108.3983-2-15-				0-W00178	50670	-0.36	728	12040	63	-50	8.3	44	3.5	4	1.4	19770	7.7	14040	-56	0.5
56-	44.6600-	108.3933-2-15-				0-W00179	45440	-0.42	950	12690	70	-48	12.1	59	4.9	4	2.0	28990	11.4	14480	-68	0.4
56-	44.6650-	108.3967-2-15-				0-W00180	49360	-0.39	523	11810	76	238	10.8	72	5.0	4	1.9	27930	10.4	16250	-74	0.6
56-	44.7228-	108.3528-2-15-				0-W00181	54680	-0.38	612	9574	55	-53	7.7	48	4.3	5	1.3	20380	7.2	16580	-66	0.4
56-	44.6272-	108.3172-2-15-				0-W00182	54480	-0.39	691	9981	74	-49	11.2	71	6.0	4	1.8	27410	9.1	16280	-81	-0.2
56-	44.6283-	108.3411-2-15-				0-W00183	55910	-0.39	631	14640	67	-53	9.7	61	4.4	5	1.5	23330	9.8	15250	-74	0.5
56-	44.6900-	108.4022-2-15-				0-W00184	50830	-0.38	620	12530	59	-58	8.6	51	3.3	4	1.3	18520	8.4	16110	-55	0.4
56-	44.6917-	108.4117-2-15-				0-W00185	42550	-0.44	1044	11720	89	-53	12.7	75	4.3	5	2.2	30470	27.4	13670	-75	0.6
56-	44.7103-	108.4017-2-15-				0-W00186	54310	-0.40	655	19390	80	-63	12.6	77	5.6	4	1.7	28010	10.6	14550	-69	0.6
56-	44.7081-	108.4239-2-15-				0-W00187	47620	-0.33	629	13470	59	-52	9.6	57	3.5	4	1.5	21180	7.5	16760	-74	0.5
56-	44.7250-	108.4244-2-15-				0-W00188	39700	-0.12	423	9037	97	-54	7.4	63	-1.1	5	1.6	18650	21.5	13380	47	0.5
56-	44.7228-	108.4289-2-15-				0-W00189	42630	-0.11	624	12470	48	-56	9.3	42	3.5	4	1.4	19460	5.7	14170	34	0.3
56-	44.7242-	108.4308-2-15-				0-W00190	42400	-0.13	855	12750	64	-50	8.1	57	3.3	4	1.3	17990	15.5	12450	30	0.5
56-	44.7383-	108.4381-2-15-				0-W00191	44110	-0.14	596	11970	69	-50	10.2	66	3.6	4	1.5	21340	18.3	14160	44	0.4
56-	44.7564-	108.4419-2-15-				0-W00192	56820	-0.46	556	15240	82	-67	11.2	66	6.6	5	2.0	28090	7.6	20970	-87	0.7
56-	44.7622-	108.4278-2-15-				0-W00193	59210	-0.34	559	11370	70	-64	9.0	46	4.4	4	1.7	18960	9.6	17360	-72	0.4
56-	44.8017-	108.3272-2-15-				0-W00194	47830	-0.31	641	10430	54	-62	5.4	34	3.1	4	1.1	13030	7.1	16500	-53	0.3
56-	44.8033-	108.3111-2-15-				0-W00195	40950	-0.45	557	52650	67	-73	14.6	126	2.5	5	1.7	34770	15.3	12730	-76	-0.2
56-	44.7672-	108.3694-2-15-				0-W00196	47870	-0.34	402	15870	76	-55	8.5	44	5.4	5	1.7	26940	11.5	16740	-68	0.5
56-	44.7800-	108.3456-2-15-				0-W00197	29400	-0.08	647	11320	61	-70	5.6	35	2.3	3	1.2	12200	10.7	11610	35	0.3
56-	44.7511-	108.3550-2-15-				0-W00198	23380	-0.09	484	15090	71	-65	9.2	46	4.0	5	1.9	17750	11.1	16200	40	0.4
56-	44.7694-	108.3322-2-15-				0-W00199	34970	-0.11	754	17310	85	-83	11.1	71	6.8	5	1.9	28700	8.4	22730	52	0.5
56-	44.7583-	108.3189-2-15-				0-W00200	24820	-0.08	529	18410	60	-46	8.8	45	3.5	4	1.5	19280	9.9	13000	26	0.3
56-	44.7528-	108.3106-2-15-				0-W00201	23910	-0.09	556	22190	57	-70	10.3	62	2.6	4	1.6	21980	12.7	14870	32	0.4
56-	44.7539-	108.3089-2-15-				0-W00202	25470	-0.10	803	21680	58	-75	9.6	52	4.3	5	1.6	21270	7.6	13690	38	0.3
56-	44.6772-	108.2872-2-15-				0-W00203	22920	-0.08	489	32900	76	-58	7.0	51	5.3	4	1.8	20090	13.3	15560	42	0.3
56-	44.6850-	108.2550-2-15-				0-W00204	30450	-0.08	680	11440	50	-55	7.7	41	3.9	5	1.6	16640	10.9	17220	28	0.4
56-	44.6836-	108.2528-2-15-				0-W00205	30880	-0.10	777	13490	71	173	6.8	39	4.6	5	1.3	16150	7.7	17830	36	0.4
56-	44.6878-	108.2517-2-15-				0-W00206	22960	-0.09	437	7405	49	309	7.9	45	2.7	4	1.5	17960	7.5	15010	30	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	44.9328-	108.5939-2-12-		0-	W00156		16670	259	8411	58	-2	5.4	4.2	-181	-1	-1	9.4	2449	70	2.5	97	0.321
56-	44.9789-	108.5744-2-15-		0-	W00157		19600	328	5998	83	-2	9.8	5.7	-219	-1	-1	11.0	2618	58	3.7	169	0.291
56-	44.9533-	108.6561-2-15-		0-	W00158		16840	300	6810	51	-2	5.5	4.3	-172	-1	-1	7.2	2297	43	2.7	71	0.333
56-	44.9522-	108.6706-2-15-		0-	W00159		21270	325	10950	77	-2	8.5	6.4	455	-1	-1	10.9	2179	53	3.5	100	0.257
56-	44.9017-	108.7133-2-15-		0-	W00160		13070	432	7559	82	-2	10.0	6.4	-245	-1	-1	13.3	2904	56	3.2	148	0.233
56-	44.8989-	108.7222-2-15-		0-	W00161		12800	285	6254	52	-1	4.7	5.1	-159	-1	-1	7.8	2090	38	3.0	56	0.321
56-	44.8900-	108.6889-2-15-		0-	W00162		10780	291	7138	-15	-1	4.1	3.7	-155	-1		7.0	1761	24	2.6	44	0.329
56-	44.8667-	108.7000-2-12-		0-	W00163		13490	277	6697	62	-2	5.1	5.4	-162	-1	-1	10.2	2192	40	3.8	42	0.294
56-	44.7850-	108.7400-2-12-		0-	W00164		10290	300	2356	-22	-2	5.1	5.1	-136	-1	-1	8.8	1952	56	3.3	63	0.295
56-	44.7783-	108.6550-2-12-		0-	W00165		13250	291	6077	50	-2	5.5	4.3	-181	-1	-1	9.4	1597	40	3.7	59	0.266
56-	44.7935-	108.6306-2-12-		0-	W00166		16400	448	9256	99	-2	9.8	6.0	-272	-1	-1	11.8	3365	55	3.5	176	0.314
56-	44.7831-	108.5122-2-12-		0-	W00167		14750	221	5536	-11	-1	0.9	0.9	-147	-1		1.3	2105	42	1.1	19	2.154
56-	44.7567-	108.5539-2-12-		0-	W00168		14090	336	4153	-17	-5	3.6	-4.5	-175	-1	-1	8.1	2581	34	4.3	45	0.383
56-	44.7272-	108.6739-2-12-		0-	W00169		22150	495	10250	-38	-13	14.3	-7.8	522	-1	-1	10.7	3420	118	-4.7	1282	0.280
56-	44.8194-	108.4678-2-12-		0-	W00170		28770	423	12830	38	-8	8.7	-5.2	572	-1	-1	7.0	3395	93	-3.0	107	0.371
56-	44.7975-	108.4056-2-12-		0-	W00171		13400	516	6919	-21	-7	4.7	-5.2	-210	-1		6.8	2638	50	-2.9	35	0.353
56-	44.7958-	108.4317-2-12-		0-	W00172		15760	294	9425	-30	-10	7.9	-6.9	-187	-1	-1	12.1	2811	60	-4.1	101	0.256
56-	44.7761-	108.4989-2-12-		0-	W00173		15730	347	8615	61	-8	5.5	-5.3	-210	-1	-1	10.0	3018	53	-2.9	79	0.290
56-	44.7361-	108.4889-2-15-		0-	W00174		10110	255	5206	-22	-7	4.8	-5.2	-160	-1	-1	6.9	2431	47	4.3	60	0.333
56-	44.6983-	108.4767-2-15-		0-	W00175		15810	307	6327	103	-10	8.9	-6.4	-172	-1	-1	12.3	2830	73	5.6	67	0.244
56-	44.6985-	108.4750-2-15-		0-	W00176		14850	324	6710	-27	-9	7.9	-5.3	-201	-1	-1	11.0	3089	74	5.0	106	0.273
56-	44.6461-	108.4528-2-15-		0-	W00177		13160	306	5413	56	-7	6.0	-5.1	237	-1	-1	10.2	3007	62	4.6	36	0.314
56-	44.6600-	108.3983-2-15-		0-	W00178		15220	327	3406	55	-8	6.4	-5.2	-170	-1		9.3	2755	80	-3.2	-72	0.387
56-	44.6600-	108.3933-2-15-		0-	W00179		13350	337	3391	73	-10	8.8	-6.3	-163	-1	-1	12.7	2513	71	6.8	99	0.283
56-	44.6550-	108.3967-2-15-		0-	W00180		13460	431	5472	79	-9	9.3	-5.6	-219	-1	-1	12.6	2815	74	-3.4	-79	0.365
56-	44.7228-	108.3528-2-15-		0-	W00181		15270	316	3930	51	-9	6.7	-5.7	-171	-1	-1	9.7	3375	93	-4.6	86	0.371
56-	44.6272-	108.3172-2-15-		0-	W00182		15240	314	3903	61	-9	8.8	-5.5	-192	-1	-1	13.2	3115	94	-3.7	109	0.280
56-	44.6283-	108.3411-2-15-		0-	W00183		14880	317	4783	59	-9	8.0	-6.0	-196	-1	-1	10.7	3558	97	-3.4	93	0.336
56-	44.6900-	108.4022-2-15-		0-	W00184		13410	316	5209	56	-8	6.3	-5.8	-173	-1	-1	8.1	3457	77	8.4	77	0.407
56-	44.6917-	108.4117-2-15-		0-	W00185		11590	370	4190	62	-10	8.8	-7.4	-174	-1	-1	14.8	3118	70	7.2	102	0.270
56-	44.7103-	108.4017-2-15-		0-	W00186		19300	387	7011	75	-9	9.0	-6.0	-220	-1	-1	10.7	2926	78	-3.5	78	0.280
56-	44.7081-	108.4239-2-15-		0-	W00187		15200	354	5013	68	-8	6.7	-5.4	-189	-1	-1	10.0	2703	75	-3.0	68	0.320
56-	44.7250-	108.4244-2-15-		0-	W00188		9739	281	4470	78	-3	5.4	7.0	-162	-1	-1	12.1	3841	53	5.3	74	0.273
56-	44.7228-	108.4289-2-15-		0-	W00189		12730	326	4520	54	-3	5.8	3.9	-162	-1	-1	7.8	2020	64	2.0	58	0.346
56-	44.7242-	108.4308-2-15-		0-	W00190		11990	387	4755	47	-3	5.6	5.1	-202	2	-1	9.2	2952	72	3.2	73	0.402
56-	44.7383-	108.4381-2-15-		0-	W00191		13510	313	5884	53	-3	5.6	6.8	-173	-1	-1	11.3	3294	61	4.6	57	0.292
56-	44.7564-	108.4419-2-15-		0-	W00192		21180	299	6931	105	-11	9.8	-6.3	-222	-1	-1	13.3	3829	92	-4.0	137	0.263
56-	44.7622-	108.4278-2-15-		0-	W00193		13040	242	10100	-25	-8	7.2	-5.4	-182	-1	-1	10.9	3385	60	5.0	84	0.275
56-	44.8017-	108.3272-2-15-		0-	W00194		13110	235	7590	44	-7	4.8	-4.9	-156	-1	-1	6.7	2397	58	4.5	66	0.358
56-	44.8033-	108.3111-2-15-		0-	W00195		33910	467	9140	-31	-10	11.1	-5.4	443	-1	-1	10.5	3587	109	-4.2	82	0.267
56-	44.7672-	108.3694-2-15-		0-	W00196		14940	403	5513	74	-8	6.9	10.2	-206	-1	-1	12.3	2355	67	6.0	74	0.301
56-	44.7800-	108.3456-2-15-		0-	W00197		19760	389	9533	47	-2	4.3	3.9	-187	-1	-1	7.9	2652	50	2.5	57	0.354
56-	44.7511-	108.3550-2-15-		0-	W00198		13830	324	3958	58	-2	5.9	6.2	-160	-1	-1	10.2	2093	36	3.3	89	0.275
56-	44.7694-	108.3322-2-15-		0-	W00199		12800	319	13420	104	-3	10.6	7.2	-239	-1	-1	12.8	2253	48	4.1	132	0.305
56-	44.7583-	108.3189-2-15-		0-	W00200		17950	244	4815	58	-2	6.4	5.5	-154	-1	1	8.5	2673	56	3.1	77	0.365
56-	44.7528-	108.3105-2-15-		0-	W00201		15290	473	7359	50	-2	5.2	5.7	555	-1	-1	7.9	2607	43	3.9	80	0.430
56-	44.7539-	108.3089-2-15-		0-	W00202		11890	540	7498	-24	-2	7.7	5.5	-221	-1	-1	9.4	2693	57	-1.5	94	0.319
56-	44.6772-	108.2872-2-15-		0-	W00203		18330	371	6332	57	-2	7.2	6.0	-199	-1	-1	12.2	1929	36	4.3	73	0.303
56-	44.6350-	108.2550-2-15-		0-	W00204		11470	188	8228	60	-2	5.6	4.8	247	-1	-1	10.4	2295	53	3.2	95	0.356
56-	44.6836-	108.2528-2-15-		0-	W00205		9610	486	13330	63	-2	5.7	5.2	-243	-1	-1	11.4	2477	47	3.7	82	0.404
56-	44.6878-	108.2517-2-15-		0-	W00206		9059	362	7149	-21	-2	6.2	3.8	-177	-1	-1	7.5	1687	38	2.9	65	0.347

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU,ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	44.7383	108.2322	2	15	0	W00207	07/23/76	16	43							6	1	4	4	4				3	2	1	1	1					2.40
56	44.7394	108.2306	2	15	0	W00208	07/23/76	16	43							6	1	4	4	4				3	2	1	1	1					2.20
56	44.7333	108.2156	2	15	0	W00209	07/23/76	16	43							9	1	4	4	4				3	2	1	1	1					2.60
56	44.7261	108.1889	2	15	0	W00210	07/23/76	17	42							9	1	4	4	6				3	2	1	1	1					2.90
56	44.7189	108.1878	2	15	0	W00211	07/23/76	17	42							6	1	4	4	6				3	2	1	1	1					2.50
56	44.6567	108.1694	2	15	0	W00212	07/23/76	17	42							6	1	7	4	6				3	2	1	1	1					2.90
56	44.6717	108.1861	2	15	0	W00213	07/23/76	17	42							9	1	4	5	6				3	2	1	1	1					2.20
56	44.6950	108.2079	2	15	0	W00214	07/23/76	17	42							12	1	4	4	6				3	2	1	1	1					2.30
56	44.6950	108.2217	2	15	0	W00215	07/23/76	17	43							19	1	7	4	6				3	2	1	1	1					2.40
56	44.8133	108.1872	2	12	0	W00216	07/24/76	9	27	20.0			6.8	400		16	1	7	4	6	3	3	1	3	2	2	1	1					3.80
56	44.8294	108.2450	2	15	0	W00217	07/24/76	9	27							6	1	7	4	6				3	2	2	1	1					2.90
56	44.8367	108.2817	2	12	0	W00218	07/24/76	9	27	21.0			6.8	300		6	1	7	5	6	3	3	1	3	2	2	1	1					3.10
56	44.8378	108.3194	2	12	0	W00219	07/24/76	9	27	18.0			7.2	3400		12	1	7	5	6	3	3	1	4	3	2	1	1					3.70
56	44.8700	108.3433	2	15	0	W00220	07/24/76	10	29							16	1	7	4	6				3	2	2	1	1					2.60
56	44.8694	108.3450	2	15	0	W00221	07/24/76	10	29							16	1	7	4	6				3	2	2	1	1					2.70
56	44.8733	108.3706	2	15	0	W00222	07/24/76	10	29							9	1	7	4	6				3	2	2	1	1					2.50
56	44.8756	108.3806	2	12	0	W00223	07/24/76	10	29	20.0			6.8	800		9	1	7	4	6	3	3	1	3	2	2	1	1					3.20
56	44.9356	108.5078	2	12	0	W00224	07/24/76	11	35	24.0			6.6	2200		16	1	7	4	6	3	3	1	3	2	2	1	1					3.00
56	44.9361	108.5128	2	12	0	W00225	07/24/76	11	35	27.0			6.9	2500		16	1	7	4	6	3	3	1	3	2	2	1	1					6.00
56	44.9194	108.4822	2	15	0	W00226	07/24/76	11	35							4	1	7	4	6				3	2	2	1	1					3.60
56	44.9853	108.4217	2	15	0	W00227	07/24/76	12	36							9	1	7	4	6				3	2	2	1	1					3.30
56	44.9656	108.4622	2	12	0	W00228	07/24/76	12	36	24.0			7.2	2300		3	1	7	5	6	3	3	2	3	2	2	1	1					4.10
56	44.9667	108.4578	2	15	0	W00229	07/24/76	12	36							9	1	7	4	6				3	2	2	1	1					2.40
56	44.9544	108.4294	2	15	0	W00230	07/24/76	12	35							9	1	7	4	6				3	2	2	1	1					3.00
56	44.9450	108.4122	2	15	0	W00231	07/24/76	12	36							9	1	7	4	4				3	2	2	1	1					2.50
56	44.9239	108.4411	2	15	0	W00232	07/24/76	12	36							9	1	7	4	6				3	2	2	1	1					3.10
56	44.9672	108.5256	2	15	0	W00233	07/24/76	17	38							9	1	7	5	6				3	2	2	2	1					3.10
56	44.9494	108.5011	2	15	0	W00234	07/24/76	17	38							9	1	7	4	6				3	2	2	2	1					3.20
56	44.9011	108.4050	2	15	0	W00235	07/24/76	18	34							12	1	7	4	6				3	2	2	2	1					3.40
56	44.9017	108.4039	2	15	0	W00236	07/24/76	18	34							12	1	7	4	6				3	2	2	2	1					3.30
56	44.9017	108.4017	2	15	0	W00237	07/24/76	18	34							12	1	7	4	6				3	2	2	2	1					3.10
56	44.9872	108.2594	2	15	0	W00238	07/31/76	11	32							9	1	7	4	6				1	3	3	2	2	1				2.00
56	44.9044	108.2689	2	15	0	W00239	07/31/76	11	32							9	1	7	4	6				1	3	1	2	2	1				7.30
56	44.9067	108.2672	2	15	0	W00240	07/31/76	11	33							14	1	7	4	6				1	3	3	2	2	1				2.90
56	44.9350	108.2975	2	15	0	W00241	07/31/76	12	34							16	1	7	4	6				1	3	2	2	2	1				3.60
56	44.9644	108.2753	2	15	0	W00242	07/31/76	13	34							4	1	4	4	6				1	3	2	2	2	1				1.80
56	44.9722	108.2656	2	15	0	W00243	07/31/76	13	34							9	1	7	4	6				1	3	1	2	2	1				2.20
56	44.9733	108.3400	2	15	0	W00244	07/31/76	13	34							12	1	7	4	6				1	3	3	2	2	1				4.30
56	44.9742	108.3381	2	15	0	W00245	07/31/76	13	34							11	1	7	4	5				1	4	3	2	2	1				3.60
56	44.9172	108.3681	2	15	0	W00247	07/31/76	14	34							9	1	7	4	5				3	1	2	2	1					2.10
56	44.8833	108.1519	2	15	0	W00248	07/31/76	14	33							12	1	4	4	4				2	3	1	2	2	1				2.50
56	44.8981	108.1556	2	15	0	W00249	07/31/76	14	33							12	1	4	4	5				2	4	2	3	2	1				2.70
56	44.9603	108.1269	2	11	0	W00253	07/31/76	16	32	14.0			6.9	900		6	1	7	4	6	2		1	4	3	2	2	1					3.10
56	44.9694	108.1594	2	15	0	W00254	07/31/76	16	32							9	1	7	4	4				2	3	3	2	4	1				2.80
56	44.9778	108.1372	2	15	0	W00255	07/31/76	17	32							9	1	7	4	6				3	2	2	2	1					2.40
56	44.9744	108.2111	2	15	0	W00256	07/31/76	17	32							6	1	7	4	6				2	3	2	2	2	1				2.70
56	44.9764	108.1681	2	11	0	W00257	07/31/76	17	30	15.0			6.9	850		4	1	7	4	4	2		1	1	3	2	2	4	1				2.60
56	44.9667	108.1194	2	11	0	W00258	07/31/76	18	30	14.0			7.5	1500		6	1	7	5	4	2		1	3	2	2	3	1					3.00
56	44.8617	108.1633	2	15	0	W00259	07/31/76	12	32							9	1	7	4	5				3	2	2	3	1					2.40
56	44.8444	108.1606	2	15	0	W00260	07/31/76	12	32							12	1	7	4	7				3	2	2	2	1					3.30
56	44.8300	108.1522	2	12	0	W00261	07/31/76	12	32	24.0			6.9	360		6	1	7	5	6	3	3	1	3	2	2	2	1					3.40

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.7383-108.2322-2-15-					0	W00207	-5	-5	-5	20	-20	15	6	-10	-15	2	33
56-44.7394-108.2306-2-15-					0	W00208	-5	-5	-5	-10	-20	-15	8	-10	-15	2	31
56-44.7333-108.2156-2-15-					0	W00209	-5	-5	-5	14	-20	16	5	-10	-15	1	34
56-44.7261-108.1899-2-15-					0	W00210	-5	-5	-5	21	-20	32	13	-10	-15	2	95
56-44.7189-108.1878-2-15-					0	W00211	-5	-5	-5	16	-20	-15	12	-10	-15	2	30
56-44.6567-108.1694-2-15-					0	W00212	-5	-5	-5	20	-20	-15	10	-10	-15	2	36
56-44.6717-108.1861-2-15-					0	W00213	-5	-5	-5	23	-20	-15	-5	-10	-15	2	31
56-44.6950-108.2078-2-15-					0	W00214	-5	-5	-5	19	-20	-15	8	-10	-15	1	47
56-44.6950-108.2217-2-15-					0	W00215	-5	-5	-5	24	-20	-15	7	-10	-15	2	50
56-44.8133-108.1872-2-12-					0	W00216	-5	-5	-5	11	-20	-15	10	-10	-15	2	31
56-44.8294-108.2450-2-15-					0	W00217	-5	-5	-5	11	-20	-15	12	-10	-15	2	31
56-44.8367-108.2817-2-12-					0	W00218	-5	-5	-5	33	-20	-15	21	-10	-15	2	30
56-44.8378-108.3194-2-12-					0	W00219	-5	-5	-5	25	-20	24	10	-10	-15	3	24
56-44.8700-108.3433-2-15-					0	W00220	-5	-5	-5	12	-20	-15	6	-10	-15	2	23
56-44.8694-108.3450-2-15-					0	W00221	-5	-5	-5	13	-20	-15	5	-10	-15	2	46
56-44.8733-108.3704-2-15-					0	W00222	-5	-5	-5	17	-20	-15	6	-10	-15	2	29
56-44.8756-108.3806-2-12-					0	W00223	-5	-5	-5	19	-20	-15	5	-10	-15	3	59
56-44.9356-108.5078-2-12-					0	W00224	-5	-5	-5	10	-20	-15	16	-10	-15	2	33
56-44.9361-108.5128-2-12-					0	W00225	-5	-5	-5	-10	-20	-15	11	-10	-15	2	39
56-44.9194-108.4822-2-15-					0	W00226	-5	-5	-5	21	-20	-15	14	-10	-15	2	35
56-44.9853-108.4217-2-15-					0	W00227	-5	-5	-5	28	-20	-15	14	-10	-15	2	35
56-44.9656-108.4622-2-12-					0	W00228	-5	-5	-5	14	-20	-15	-5	-10	-15	2	17
56-44.9667-108.4578-2-15-					0	W00229	-5	-5	-5	14	-20	-15	13	-10	-15	2	27
56-44.9544-108.4294-2-15-					0	W00230	-5	-5	-5	12	-20	-15	-5	-10	-15	2	14
56-44.9450-108.4122-2-15-					0	W00231	-5	-5	-5	17	-20	17	5	-10	-15	2	43
56-44.9239-108.4411-2-15-					0	W00232	-5	-5	-5	10	-20	-15	8	-10	-15	2	32
56-44.9672-108.5256-2-15-					0	W00233	-5	-5	-5	15	-20	-15	11	-10	-15	2	35
56-44.9494-108.5011-2-15-					0	W00234	-5	-5	-5	15	-20	-15	10	-10	-15	2	31
56-44.9011-108.4050-2-15-					0	W00235	-5	-5	-5	19	-20	15	16	-10	-15	2	42
56-44.9017-108.4039-2-15-					0	W00236	-5	-5	-5	23	-20	-15	7	-10	-15	2	37
56-44.9017-108.4017-2-15-					0	W00237	-5	-5	-5	13	-20	-15	9	-10	-15	3	49
56-44.8872-108.2594-2-15-					0	W00238	-5	-5	-5	-10	-20	-15	5	-10	-15	2	17
56-44.9044-108.2689-2-15-					0	W00239	-5	5	-5	33	-20	24	21	-10	-15	3	45
56-44.9067-108.2672-2-15-					0	W00240	-5	5	-5	10	-20	18	6	-10	-15	2	15
56-44.9350-108.2975-2-15-					0	W00241	-5	-5	-5	14	-20	-15	-5	-10	-15	1	18
56-44.9644-108.2753-2-15-					0	W00242	-5	-5	-5	16	-20	-15	-5	-10	-15	2	30
56-44.9722-108.2655-2-15-					0	W00243	-5	-5	-5	-10	-20	-15	7	-10	-15	1	28
56-44.9733-108.3400-2-15-					0	W00244	-5	-5	-5	19	-20	-15	13	-10	-15	2	32
56-44.9742-108.3381-2-15-					0	W00245	-5	-5	-5	23	-20	-15	6	-10	-15	2	36
56-44.9172-108.3681-2-15-					0	W00247	-5	-5	-5	15	-20	-15	6	-10	-15	2	25
56-44.8833-108.1519-2-15-					0	W00248	-5	-5	-5	29	-20	-15	9	-10	-15	2	79
56-44.8981-108.1556-2-15-					0	W00249	-5	-5	-5	16	-20	28	12	-10	-15	2	85
56-44.9603-108.1269-2-11-					0	W00253	-5	-5	-5	11	-20	16	11	-10	-15	2	33
56-44.9694-108.1594-2-15-					0	W00254	-5	-5	-5	22	-20	15	10	-10	-15	2	28
56-44.9778-108.1372-2-15-					0	W00255	-5	-5	-5	20	-20	17	14	-10	-15	2	29
56-44.9744-108.2111-2-15-					0	W00256	-5	-5	-5	21	-20	19	18	-10	-15	2	33
56-44.9764-108.1681-2-11-					0	W00257	-5	-5	-5	24	-20	34	5	-10	-15	2	24
56-44.9667-108.1194-2-11-					0	W00258	-5	-5	-5	15	-20	-15	10	-10	-15	2	72
56-44.8617-108.1633-2-15-					0	W00259	-5	-5	-5	14	-20	-15	-5	-10	-15	2	23
56-44.8444-108.1506-2-15-					0	W00260	-5	-5	-5	29	-20	23	16	-10	-15	2	32
56-44.8300-108.1522-2-12-					0	W00261	-5	-5	-5	19	-20	17	20	-10	-15	2	29

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.7383-	108.2322-2-15-				0-W00207	20820	-0.09	499	39460	59	-59	12.9	112	1.8	4	1.5	27290	13.8	12560	33	0.4
56-	44.7394-	108.2306-2-15-				0-W00208	20470	-0.08	466	45430	56	-67	7.9	45	2.5	4	1.4	17670	9.2	12570	23	0.3
56-	44.7333-	108.2156-2-15-				0-W00209	22040	-0.08	436	44170	38	186	6.7	52	2.2	4	0.8	14930	10.6	13970	25	0.3
56-	44.7261-	108.1889-2-15-				0-W00210	16350	-0.11	370	63400	69	84	13.9	79	4.0	4	1.8	30520	12.8	14400	37	0.4
56-	44.7189-	108.1878-2-15-				0-W00211	25460	-0.09	380	55770	62	119	11.9	99	3.6	5	1.5	26060	12.8	19520	29	0.4
56-	44.6567-	108.1694-2-15-				0-W00212	24010	-0.09	561	54080	58	-80	8.5	67	2.2	5	1.5	20910	11.3	17690	32	0.3
56-	44.6717-	108.1861-2-15-				0-W00213	16540	-0.08	592	40610	48	-72	7.4	43	2.4	3	1.2	15590	9.1	13760	25	0.3
56-	44.6950-	108.2078-2-15-				0-W00214	22180	-0.10	325	40690	54	-81	10.5	48	2.9	4	1.6	21980	8.4	13660	29	0.3
56-	44.6950-	108.2217-2-15-				0-W00215	24440	-0.09	524	90510	61	-66	11.1	60	2.8	4	1.6	25190	9.1	19270	25	0.3
56-	44.8133-	108.1872-2-12-				0-W00216	23750	-0.10	436	26570	70	304	7.9	51	4.2	4	1.7	19180	15.4	16320	35	-0.1
56-	44.9294-	108.2450-2-15-				0-W00217	25470	-0.09	577	10550	70	-58	10.6	79	3.0	5	1.6	24950	12.8	16040	35	0.4
56-	44.8367-	108.2817-2-12-				0-W00218	31290	-0.10	743	24460	90	-74	11.6	69	3.3	5	1.9	24100	9.8	20560	29	0.4
56-	44.8378-	108.3194-2-12-				0-W00219	20300	2.74	412	15210	75	-55	26.9	336	-1.8	4	1.4	66730	18.5	9930	40	0.4
56-	44.8700-	108.3433-2-15-				0-W00220	18650	-0.07	499	47210	58	-61	4.8	32	2.4	4	1.4	10610	12.2	12060	29	0.3
56-	44.8694-	108.3450-2-15-				0-W00221	23470	-0.08	815	10710	65	-60	7.4	50	4.3	4	1.8	19150	8.8	14820	29	0.3
56-	44.8733-	108.3706-2-15-				0-W00222	24310	-0.07	625	22450	55	97	7.8	44	3.1	4	1.5	17400	11.1	14530	29	0.4
56-	44.8756-	108.3806-2-12-				0-W00223	26900	-0.09	734	38220	53	-76	8.0	47	4.1	-1	1.4	17600	7.2	18420	27	0.3
56-	44.9356-	108.5078-2-12-				0-W00224	25130	-0.09	473	18870	59	-63	7.1	41	3.7	4	1.6	16780	11.8	13110	30	0.4
56-	44.9361-	108.5128-2-12-				0-W00225	27170	-0.10	833	14190	95	117	9.3	76	4.1	4	2.6	23900	58.1	19520	54	0.8
56-	44.9194-	108.4822-2-15-				0-W00226	27490	-0.10	746	25580	52	686	7.6	44	3.5	4	1.4	17880	9.5	17450	35	0.4
56-	44.9853-	108.4217-2-15-				0-W00227	22510	-0.11	633	27280	71	-69	12.1	59	4.0	4	1.7	25290	11.5	14240	33	0.5
56-	44.9656-	108.4522-2-12-				0-W00228	27170	-0.10	469	39030	75	-65	12.7	62	5.5	6	2.0	26950	11.4	13430	39	0.5
56-	44.9667-	108.4578-2-15-				0-W00229	19200	-0.08	420	7718	48	-46	13.4	40	2.0	4	1.2	31800	9.0	10440	34	0.3
56-	44.9544-	108.4294-2-15-				0-W00230	13150	-0.08	231	2435	54	-48	6.0	42	2.0	4	1.5	13370	25.9	4868	29	0.4
56-	44.9450-	108.4122-2-15-				0-W00231	22140	-0.11	1174	33550	62	-64	10.7	52	4.5	6	1.6	25200	9.0	12780	31	0.4
56-	44.9239-	108.4411-2-15-				0-W00232	23340	-0.08	463	44700	67	-59	7.2	51	5.0	4	1.6	18780	11.1	18590	34	0.3
56-	44.9672-	108.5256-2-15-				0-W00233	22280	-0.08	540	15390	53	-50	5.0	37	3.5	3	1.3	13140	9.9	12750	23	0.3
56-	44.9494-	108.5011-2-15-				0-W00234	27220	-0.08	585	8977	61	-58	6.0	39	3.8	4	1.5	16300	12.7	16940	39	0.4
56-	44.9311-	108.4050-2-15-				0-W00235	28050	-0.09	635	10390	68	-62	9.9	61	5.4	4	1.9	23260	9.4	17850	38	0.4
56-	44.9017-	108.4039-2-15-				0-W00236	29950	-0.07	592	26150	55	-59	6.8	40	4.1	4	1.5	17180	7.7	16920	30	0.3
56-	44.9017-	108.4017-2-15-				0-W00237	26320	-0.08	563	21140	60	-65	7.5	36	3.6	4	1.6	18170	7.2	17210	25	0.3
56-	44.8372-	108.2594-2-15-				0-W00238	28920	-0.07	579	27230	50	139	4.5	32	2.5	5	1.3	10030	7.3	17250	23	0.2
56-	44.9044-	108.2689-2-15-				0-W00239	31050	-0.12	1031	15170	98	-98	9.1	73	9.5	5	1.7	27440	5.5	22320	46	0.6
56-	44.9067-	108.2672-2-15-				0-W00240	20780	-0.07	186	5334	54	241	5.3	52	2.1	3	1.3	11850	19.5	8486	33	0.4
56-	44.9350-	108.2975-2-15-				0-W00241	19100	-0.08	558	8086	72	-62	7.4	49	1.8	4	1.5	16160	27.4	12950	35	0.5
56-	44.9644-	108.2753-2-15-				0-W00242	15870	-0.07	758	6032	36	-50	6.3	39	2.7	5	1.0	14400	9.0	9784	19	0.3
56-	44.9722-	108.2656-2-15-				0-W00243	16020	-0.07	294	64560	49	-54	8.0	42	3.3	3	1.3	16560	12.5	12070	23	0.3
56-	44.9733-	108.3400-2-15-				0-W00244	22210	-0.08	495	50900	60	-65	9.8	46	4.2	4	1.5	20790	11.2	15920	27	0.4
56-	44.9742-	108.3381-2-15-				0-W00245	25060	-0.09	477	16240	67	-70	9.9	49	3.9	5	1.5	19900	9.8	14780	28	0.4
56-	44.9172-	108.3681-2-15-				0-W00247	21790	-0.08	342	20540	59	-56	6.6	43	2.9	5	1.6	15950	9.5	11610	32	0.2
56-	44.8833-	108.1519-2-15-				0-W00248	25630	-0.09	678	21320	69	-62	15.0	75	6.9	4	1.9	31000	9.7	16310	36	0.5
56-	44.8981-	108.1556-2-15-				0-W00249	24420	-0.08	334	35060	53	112	8.9	70	1.7	4	1.3	24930	10.7	20750	28	0.3
56-	44.9603-	108.1269-2-11-				0-W00253	33330	-0.09	395	68680	65	81	9.4	80	2.4	6	1.2	19470	13.3	12910	34	0.3
56-	44.9694-	108.1594-2-15-				0-W00254	21260	-0.10	474	44730	72	-69	12.9	94	4.2	4	1.8	26960	14.7	12640	36	0.2
56-	44.9778-	108.1372-2-15-				0-W00255	28530	-0.09	671	38600	69	-73	12.3	82	3.9	5	1.7	25150	11.8	14710	34	0.4
56-	44.9744-	108.2111-2-15-				0-W00256	25300	-0.09	636	42070	62	-64	11.5	76	3.9	4	1.6	24280	11.3	12820	31	0.4
56-	44.9764-	108.1681-2-11-				0-W00257	28060	-0.09	586	30110	65	-81	10.6	57	2.8	5	1.3	19520	7.8	15360	24	0.3
56-	44.9657-	108.1194-2-11-				0-W00258	28740	-0.13	649	55330	70	-92	8.2	94	3.1	5	1.7	34260	10.8	16190	32	0.4
56-	44.8617-	108.1633-2-15-				0-W00259	30180	-0.08	291	31660	60	-44	9.7	61	3.4	4	1.5	21540	11.2	8466	33	0.3
56-	44.8444-	108.1606-2-15-				0-W00260	21910	-0.09	495	53300	84	-57	15.2	69	4.1	4	1.8	29350	12.1	11610	46	0.5
56-	44.8300-	108.1522-2-12-				0-W00261	23330	-0.10	510	25250	64	-88	12.6	58	2.6	6	1.5	23820	13.0	12930	32	0.5

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAS SAMPLE LOCATION NUMBER	Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	44.7383-	108.2322-2-15-	0-	W00237			13930	320	7133	45	-2	9.2	5.4	-188	-1	-1	8.3	1977	36	3.6	48	0.289
56-	44.7394-	108.2306-2-15-	0-	W00238			34560	459	9534	-19	-2	6.5	4.6	366	-1	-1	7.3	3025	65	3.0	66	0.301
56-	44.7333-	108.2156-2-15-	0-	W00239			32500	380	11350	-18	-2	5.0	3.6	399	-1	-1	5.5	2492	32	3.4	32	0.473
56-	44.7261-	108.1989-2-15-	0-	W00210			51690	297	4614	-26	-3	10.0	5.8	375	-1	-1	11.3	1826	40	2.9	90	0.257
56-	44.7189-	108.1878-2-15-	0-	W00211			40610	563	8142	59	-2	8.8	4.7	-249	-1	1	8.0	3045	56	4.1	90	0.313
56-	44.6567-	108.1594-2-15-	0-	W00212			42140	530	11510	56	-2	6.4	4.9	576	-1	-1	9.0	3137	67	3.3	49	0.322
56-	44.6717-	108.1861-2-15-	0-	W00213			25560	394	8875	42	-2	5.8	3.7	855	-1	-1	5.2	2181	36	2.8	52	0.423
56-	44.6950-	108.2078-2-15-	0-	W00214			27320	401	11400	48	-2	7.6	4.9	-139	-1	-1	7.9	2424	35	-1.8	-50	0.291
56-	44.6950-	108.2217-2-15-	0-	W00215			37010	422	6731	59	-2	7.7	5.3	1033	-1	-1	8.5	2678	46	2.6	71	0.282
56-	44.8133-	109.1872-2-12-	0-	W00216			26720	205	9494	67	-2	6.8	7.0	-167	-1	-1	13.2	1735	34	4.6	53	0.288
56-	44.8294-	108.2450-2-15-	0-	W00217			9725	229	7918	49	-2	8.0	5.4	-171	-1	-1	9.4	2071	45	4.4	65	0.309
56-	44.8367-	109.2917-2-12-	0-	W00218			22510	494	9705	56	-2	9.1	6.4	-250	-1	-1	9.3	3473	75	3.1	78	0.316
56-	44.8378-	108.3194-2-12-	0-	W00219			11650	289	5032	-29	-3	14.5	6.2	-136	-1	-1	13.2	2383	44	3.8	112	0.280
56-	44.8700-	108.3433-2-15-	0-	W00220			29580	883	6437	39	-2	4.1	4.3	-252	-1	-1	7.9	6294	228	2.9	23	0.329
56-	44.8694-	108.3450-2-15-	0-	W00221			9958	181	9552	-21	-2	6.6	5.1	-169	-1	-1	8.6	1973	41	2.8	-12	0.314
56-	44.8733-	108.3706-2-15-	0-	W00222			20520	194	7958	45	-2	5.7	4.4	352	-1	-1	7.6	2135	53	2.6	85	0.329
56-	44.8756-	108.3806-2-12-	0-	W00223			18280	313	9435	57	-2	6.1	4.1	436	-1	-1	8.0	2865	60	2.0	96	0.400
56-	44.9356-	108.5078-2-12-	0-	W00224			18270	195	7555	49	-2	5.6	5.3	234	-1	-1	9.6	1783	65	-1.4	95	0.313
56-	44.9361-	109.5128-2-12-	0-	W00225			11980	257	10380	-21	-2	7.7	7.3	-199	-1	-1	14.7	1972	52	5.9	96	0.408
56-	44.9194-	108.4822-2-15-	0-	W00226			20970	307	9082	51	-2	5.9	5.0	-197	-1	-1	7.6	1993	70	2.7	81	0.474
56-	44.9853-	108.4217-2-15-	0-	W00227			15300	471	5940	-26	-3	9.1	7.0	-210	-1	-1	9.8	1642	46	3.9	-67	0.337
56-	44.9656-	108.4622-2-12-	0-	W00228			20340	462	6074	64	-2	8.8	7.4	744	-1	-1	13.6	3020	57	4.9	111	0.301
56-	44.9667-	108.4578-2-15-	0-	W00229			6548	454	4501	-21	-2	5.8	5.2	-180	-1	-1	7.5	1737	37	3.5	60	0.320
56-	44.9544-	108.4294-2-15-	0-	W00230			5271	603	1912	-16	-2	4.7	4.3	-227	-1	-1	8.3	3225	36	3.3	63	0.361
56-	44.9450-	108.4122-2-15-	0-	W00231			14450	327	5930	76	-3	9.7	6.3	-179	-1	-1	10.0	2703	39	-1.7	94	0.250
56-	44.9239-	108.4411-2-15-	0-	W00232			27850	364	6363	56	-2	6.5	5.1	345	-1	-1	11.2	2234	42	3.1	105	0.277
56-	44.9672-	108.5256-2-15-	0-	W00233			14250	203	4685	39	-2	4.9	4.3	303	-1	-1	10.1	1670	52	2.5	51	0.307
56-	44.9494-	108.5011-2-15-	0-	W00234			9329	156	7243	-19	-2	6.0	4.9	-134	-1	-1	10.4	1656	42	-1.3	-31	0.308
56-	44.9011-	108.4050-2-15-	0-	W00235			10420	299	9324	71	-2	8.2	5.6	-193	-1	-1	9.9	2043	42	3.5	81	0.343
56-	44.9017-	108.4039-2-15-	0-	W00236			25860	273	8329	-19	-2	6.0	6.5	252	-1	-1	9.6	2953	74	3.8	-41	0.344
56-	44.9017-	108.4017-2-15-	0-	W00237			17230	265	8229	62	-2	6.0	4.8	-166	-1	-1	7.9	2213	47	3.2	62	0.392
56-	44.8372-	108.2594-2-15-	0-	W00238			23710	287	8967	53	-2	4.0	3.7	-169	-1		6.4	1830	49	-1.3	38	0.313
56-	44.9044-	108.2689-2-15-	0-	W00239			-3935	717	11300	105	-3	10.5	8.3	420	-1	-1	21.1	2696	51	4.9	126	0.346
56-	44.9067-	108.2672-2-15-	0-	W00240			8952	119	10930	-14	-1	4.7	4.0	-137	-1	1	8.5	1350	37	3.0	44	0.341
55-	44.9350-	108.2975-2-15-	0-	W00241			7621	287	7568	42	-2	5.4	5.5	262	-1	-1	10.7	2357	39	4.4	60	0.336
56-	44.9544-	108.2753-2-15-	0-	W00242			5002	493	3697	41	-2	5.0	3.5	-189	-1		5.2	2993	36	1.9	33	0.346
56-	44.9722-	108.2656-2-15-	0-	W00243			33580	293	5810	56	-2	6.2	3.9	-180	-1	-1	7.0	1644	26	2.5	52	0.314
56-	44.9733-	108.3400-2-15-	0-	W00244			27190	436	6889	57	-2	6.9	5.8	-217	-1	-1	11.8	2360	37	3.1	80	0.364
56-	44.9742-	108.3381-2-15-	0-	W00245			14430	515	5979	42	-2	7.1	5.2	-231	-1	-1	8.9	2452	40	3.3	90	0.409
56-	44.9172-	108.3681-2-15-	0-	W00247			11660	429	4259	51	-2	5.8	5.2	-179	-1	-1	7.9	2525	39	-1.3	78	0.266
56-	44.9833-	108.1519-2-15-	0-	W00248			22520	201	9130	91	-2	11.0	6.4	-180	-1	-1	10.4	2096	61	4.0	65	0.240
56-	44.8981-	108.1556-2-15-	0-	W00249			39170	463	7085	31	-2	8.7	5.1	306	-1	-1	8.4	2932	42	3.8	82	0.321
56-	44.9603-	108.1269-2-11-	0-	W00253			60140	227	2502	36	-2	6.5	4.6	271	-1	-1	9.8	3981	64	4.0	74	0.316
56-	44.9694-	108.1594-2-15-	0-	W00254			28200	275	7518	-26	-2	9.3	5.6	-173	-1	1	11.8	2524	50	3.7	69	0.237
56-	44.9778-	108.1372-2-15-	0-	W00255			23180	421	9331	48	-2	8.7	4.9	-235	-1	-1	9.5	2695	61	4.5	-50	0.253
56-	44.9744-	108.2111-2-15-	0-	W00256			19350	350	8364	80	-2	8.3	5.3	341	-1	-1	9.7	2593	47	3.9	99	0.278
56-	44.9764-	108.1681-2-11-	0-	W00257			15310	503	3056	-22	-2	6.6	3.7	-230	-1	-1	8.1	2998	51	2.8	44	0.321
56-	44.9667-	108.1194-2-11-	0-	W00258			30180	444	10940	-31	-3	12.6	6.3	-232	-1	-1	13.1	2576	49	-2.2	74	0.229
56-	44.8617-	108.1533-2-15-	0-	W00259			20380	172	3537	58	-2	7.6	4.6	492	-1	-1	9.0	2920	57	3.2	86	0.267
56-	44.8444-	108.1606-2-15-	0-	W00260			30990	372	5584	50	-2	9.2	7.6	-196	-1	-1	12.9	2394	42	3.9	111	0.256
56-	44.8300-	108.1522-2-12-	0-	W00261			19230	317	7992	-22	-2	7.2	5.3	-283	-1	-1	8.1	3865	55	4.5	50	0.420

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																													U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.7917-108.1633-2-15-						0-W00262-07/31/76-13-			33-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	5.60
56-44.7681-108.1611-2-15-						0-W00263-07/31/76-13-			33-		-	-	-	-	-	9-	1-	7-	5-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	3.80
56-44.6103-108.2050-2-15-						0-W00264-07/30/76-12-			30-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-	3-	3-	2-	3-	-	1-	-	-	-	-	2.80
56-44.5156-108.4514-2-15-						0-W00269-07/29/76-15-			26-		-	-	-	-	-	6-	1-	1-	5-	6-	-	-	-	-	4-	3-	2-	3-	-	1-	-	-	-	-	3.20
56-44.5189-108.4439-2-15-						0-W00270-07/29/76-15-			24-		-	-	-	-	-	3-	1-	1-	4-	6-	-	-	-	-	4-	3-	2-	3-	-	1-	-	-	-	-	2.50
56-44.5061-108.4433-2-15-						0-W00271-07/29/76-15-			23-		-	-	-	-	-	9-	1-	6-	4-	6-	-	-	-	-	4-	3-	1-	3-	-	1-	-	-	-	-	2.70
56-44.5228-108.4250-2-15-						0-W00272-07/29/76-16-			24-		-	-	-	-	-	17-	1-	1-	4-	6-	-	-	-	-	4-	2-	3-	3-	-	1-	-	-	-	-	2.60
56-44.5311-108.3856-2-15-						0-W00273-07/29/76-16-			25-		-	-	-	-	-	1-	1-	1-	4-	6-	-	-	-	-	4-	3-	2-	3-	-	1-	-	-	-	-	2.80
56-44.5303-108.3878-2-15-						0-W00274-07/29/76-14-			24-		-	-	-	-	-	7-	1-	7-	4-	6-	-	-	-	-	4-	3-	2-	3-	-	1-	-	-	-	-	2.50
56-44.5250-108.4083-2-15-						0-W00275-07/29/76-17-			24-		-	-	-	-	-	3-	1-	6-	4-	6-	-	-	-	-	4-	3-	4-	3-	-	1-	-	-	-	-	2.80
56-44.3394-108.3206-2-15-						0-W00280-07/30/76-15-			32-		-	-	-	-	-	14-	1-	6-	4-	6-	-	-	-	-	4-	2-	1-	2-	-	1-	-	-	-	-	3.40
56-44.3439-108.2747-2-12-						0-W00282-07/30/76-16-			32-25.0		-	-	6.5-	600-		3-	1-	6-	4-	6-	3-	2-	1-	3-	4-	2-	2-	2-	-	1-	-	-	-	-	3.30
56-44.3389-108.2611-2-15-						0-W00283-07/30/76-17-			32-		-	-	-	-	-	1-	-	-	4-	7-	-	-	-	-	4-	2-	2-	2-	-	1-	-	-	-	-	2.50
56-44.3022-108.2578-2-15-						0-W00284-07/31/76-12-			30-		-	-	-	-	-	4-	1-	6-	4-	6-	-	-	-	-	4-	2-	2-	1-	-	1-	-	-	-	-	3.00
56-44.2853-108.2783-2-15-						0-W00285-07/31/76-13-			31-		-	-	-	-	-	3-	1-	6-	4-	6-	-	-	-	-	4-	2-	3-	2-	-	1-	-	-	-	-	2.90
56-44.2797-108.3017-2-15-						0-W00286-07/31/76-13-			31-		-	-	-	-	-	4-	1-	7-	4-	7-	-	-	-	-	3-	2-	2-	3-	-	1-	-	-	-	-	3.20
56-44.3633-108.4014-2-15-						0-W00288-07/31/76-15-			29-		-	-	-	-	-	15-	1-	6-	4-	6-	-	-	-	-	3-	2-	3-	4-	-	1-	-	-	-	-	4.60
56-44.3217-108.3600-2-15-						0-W00289-07/31/76-15-			28-		-	-	-	-	-	4-	1-	6-	4-	6-	-	-	-	-	3-	2-	3-	3-	-	1-	-	-	-	-	6.20
56-44.2733-108.3239-2-15-						0-W00290-07/31/76-16-			29-		-	-	-	-	-	4-	1-	6-	4-	7-	-	-	-	-	3-	2-	2-	3-	-	1-	-	-	-	-	3.40
56-44.2861-108.3656-2-15-						0-W00291-07/31/76-16-			29-		-	-	-	-	-	3-	1-	6-	4-	7-	-	-	-	-	3-	2-	2-	3-	-	1-	-	-	-	-	3.70
56-44.2861-108.3806-2-15-						0-W00292-07/31/76-16-			29-		-	-	-	-	-	12-	1-	6-	4-	6-	-	-	-	-	3-	2-	2-	3-	-	1-	-	-	-	-	3.50
56-44.2561-108.3900-2-15-						0-W00293-07/31/76-16-			30-		-	-	-	-	-	3-	1-	6-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	2.70
56-44.2578-108.3828-2-15-						0-W00294-07/31/76-17-			29-		-	-	-	-	-	3-	1-	6-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	2.90
56-44.2986-108.2278-2-15-						0-W00295-07/31/76-17-			30-		-	-	-	-	-	6-	1-	6-	4-	6-	-	-	-	-	3-	2-	2-	1-	-	1-	-	-	-	-	3.30
56-44.3094-108.1961-2-15-						0-W00296-07/31/76-17-			30-		-	-	-	-	-	6-	1-	6-	4-	6-	-	-	-	-	3-	2-	2-	1-	-	1-	-	-	-	-	3.30
56-44.7578-108.1694-2-15-						0-W00297-07/31/76-13-			33-		-	-	-	-	-	16-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	3.00
56-44.7450-108.1639-2-15-						0-W00298-07/31/76-13-			33-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	3.60
56-44.7056-108.1417-2-15-						0-W00299-07/31/76-14-			33-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	2.40
56-44.6889-108.1150-2-11-						0-W00300-07/31/76-14-			33-18.0		-	-	7.2-	600-		9-	1-	7-	4-	6-	3-	3-	1-	-	3-	2-	2-	2-	-	1-	-	-	-	-	2.40
56-44.6800-108.0956-2-12-						0-W00301-07/31/76-14-			33-22.0		-	-	7.2-	1400-		5-	1-	7-	5-	6-	3-	3-	1-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.00
56-44.6300-108.0544-2-15-						0-W00302-07/31/76-14-			33-		-	-	-	-	-	16-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.00
56-44.6800-108.0750-2-15-						0-W00303-07/31/76-14-			33-		-	-	-	-	-	6-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	3.00
56-44.7333-108.0067-2-12-						0-W00304-07/31/76-15-			30-13.0		-	-	6.6-	240-		12-	1-	7-	4-	6-	3-	3-	1-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.00
56-44.7178-108.0478-2-15-						0-W00305-07/31/76-15-			30-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.10
56-44.7181-108.0500-2-15-						0-W00306-07/31/76-15-			30-		-	-	-	-	-	6-	1-	7-	5-	8-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.80
56-44.7119-108.0517-2-12-						0-W00307-07/30/76-16-			28-18.0		-	-	7.2-	230-		6-	1-	7-	4-	6-	3-	3-	1-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.30
56-44.7067-108.0628-2-15-						0-W00308-07/31/76-15-			29-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.00
56-44.6956-108.0494-2-15-						0-W00309-07/31/76-15-			29-		-	-	-	-	-	9-	1-	7-	-	-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.80
56-44.6711-108.0250-2-15-						0-W00310-07/31/76-16-			28-		-	-	-	-	-	6-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.10
56-44.6850-108.0067-2-15-						0-W00311-07/31/76-17-			27-		-	-	-	-	-	6-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.10
56-44.8219-108.1228-2-12-						0-W00312-08/01/76-13-			24-17.0		-	-	7.2-	350-		5-	1-	7-	5-	6-	3-	3-	1-	2-	4-	3-	2-	2-	-	1-	-	-	-	-	2.60
56-44.8128-108.0950-2-11-						0-W00313-08/01/76-19-			24-21.0		-	-	6.8-	600-		9-	1-	7-	5-	6-	3-	3-	1-	-	4-	2-	2-	2-	-	1-	-	-	-	-	3.00
56-44.8122-108.0986-2-15-						0-W00314-08/01/76-13-			24-		-	-	-	-	-	16-	1-	7-	4-	6-	-	-	-	-	3-	3-	2-	2-	-	1-	-	-	-	-	3.80
56-44.8047-108.1042-2-15-						0-W00315-08/01/76-19-			24-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	2-	3-	3-	2-	2-	-	1-	-	-	-	-	3.50
56-44.8161-108.0644-2-11-						0-W00316-08/01/76-19-			24-15.0		-	-	6.8-	440-		4-	1-	7-	5-	6-	2-	-	1-	1-	3-	3-	2-	2-	-	1-	-	-	-	-	2.70
56-44.7911-108.0147-2-12-						0-W00317-08/02/76-12-			16-15.0		-	-	6.5-	450-		6-	1-	7-	5-	6-	3-	3-	1-	1-	3-	3-	3-	4-	-	1-	-	-	-	-	3.60
56-44.7950-108.0319-2-11-						0-W00318-08/02/76-12-			16-19.0		-	-	6.8-	340-		3-	1-	7-	5-	6-	3-	3-	4-	-	3-	3-	3-	4-	-	1-	-	-	-	-	3.60
56-44.7917-108.0575-2-15-						0-W00319-08/02/76-13-			16-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-	3-	3-	3-	4-	-	1-	-	-	-	-	3.20
56-44.7881-108.0844-2-15-						0-W00320-08/02/76-13-			16-		-	-	-	-	-	6-	1-	7-	4-	6-	-	-	-	-	3-	3-	3-	4-	-	1-	-	-	-	-	2.60
56-44.9144-108.9883-2-15-						0-W00321-08/04/76-14-			25-		-	-	-	-	-	3-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	1-	-	1-	-	-	-	-	3.60
56-44.9094-108.9886-2-15-						0-W00322-08/04/76-14-			25-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-	3-	2-	2-	1-	-	1-	-	-	-	-	3.60

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

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.7917-108.1633-2-15-						0-W00262	-5	-5	-5	24	-20	-15	13	-10	-15	3	37
56-44.7681-108.1611-2-15-						0-W00263	-5	-5	-5	33	-20	28	14	-10	-15	2	23
56-44.6103-108.2050-2-15-						0-W00264	-5	-5	-5	22	-20	15	11	-10	-15	2	21
56-44.5156-108.4514-2-15-						0-W00269	-5	-5	-5	22	-20	-15	7	-10	-15	3	31
56-44.5189-108.4439-2-15-						0-W00270	-5	-5	-5	17	-20	-15	7	-10	-15	2	16
56-44.5061-108.4433-2-15-						0-W00271	-5	-5	-5	24	-20	-15	11	-10	-15	2	25
56-44.5228-108.4250-2-15-						0-W00272	-5	-5	-5	-10	-20	-15	8	-10	-15	1	16
56-44.5311-108.3856-2-15-						0-W00273	-5	-5	-5	15	-20	-15	-5	-10	-15	1	14
56-44.5303-108.3878-2-15-						0-W00274	-5	-5	-5	10	-20	-15	10	-10	-15	1	19
56-44.5250-108.4083-2-15-						0-W00275	-5	-5	-5	26	-20	-15	10	-10	-15	2	17
56-44.3394-108.3206-2-15-						0-W00280	-5	-5	-5	12	-20	22	5	-10	-15	2	16
56-44.3439-108.2747-2-12-						0-W00282	-5	-5	-5	17	-20	-15	6	-10	-15	2	29
56-44.3389-108.2611-2-15-						0-W00283	-5	-5	-5	19	-20	-15	-5	-10	-15	2	18
56-44.3022-108.2578-2-15-						0-W00284	-5	-5	-5	12	-20	15	6	-10	-15	1	18
56-44.2853-108.2783-2-15-						0-W00285	-5	-5	-5	14	-20	-15	-5	-10	-15	1	17
56-44.2797-108.3017-2-15-						0-W00286	-5	-5	-5	18	-20	-15	9	-10	-15	1	18
56-44.3633-108.4014-2-15-						0-W00288	-5	-5	-5	23	-20	-15	5	-10	-15	2	17
56-44.3217-108.3600-2-15-						0-W00289	-5	-5	-5	11	-20	-15	-5	-10	-15	2	18
56-44.2733-108.3239-2-15-						0-W00290	-5	-5	-5	16	-20	20	15	-10	-15	2	25
56-44.2861-108.3656-2-15-						0-W00291	-5	-5	-5	12	-20	-15	5	-10	-15	1	15
56-44.2861-108.3806-2-15-						0-W00292	-5	-5	-5	-10	-20	-15	5	-10	-15	2	22
56-44.2561-108.3903-2-15-						0-W00293	-5	-5	-5	11	-20	-15	5	-10	-15	1	16
56-44.2578-108.3828-2-15-						0-W00294	-5	-5	-5	11	-20	-15	7	-10	-15	2	22
56-44.2986-108.2278-2-15-						0-W00295	-5	-5	-5	15	-20	-15	6	-10	-15	1	19
56-44.3094-108.1961-2-15-						0-W00296	-5	5	-5	22	-20	-15	12	-10	-15	2	23
56-44.7578-108.1694-2-15-						0-W00297										3	27
56-44.7450-108.1639-2-15-						0-W00298	-5	-5	-5	12	-20	-15	-5	-10	-15	2	22
56-44.7056-108.1417-2-15-						0-W00299	-5	-5	-5	31	-20	18	7	-10	-15	1	30
56-44.6889-108.1150-2-11-						0-W00300	-5	-5	-5	21	-20	-15	-5	-10	-15	1	24
56-44.6800-108.0956-2-12-						0-W00301	-5	5	-5	28	-20	33	11	-10	-15	2	30
56-44.6300-108.0544-2-15-						0-W00302	-5	-5	-5	32	-20	21	13	-10	-15	2	29
56-44.6800-108.0750-2-15-						0-W00303	-5	-5	-5	20	24	22	-5	-10	20	1	21
56-44.7333-108.0067-2-12-						0-W00304	-5	-5	-5	21	-20	-15	24	-10	-15	2	24
56-44.7178-108.0478-2-15-						0-W00305	-5	-5	-5	27	-20	29	18	-10	-15	2	36
56-44.7181-108.0500-2-15-						0-W00306	-5	-5	-5	32	-20	36	21	-10	-15	2	50
56-44.7119-108.0517-2-12-						0-W00307	-5	-5	-5	30	-20	-15	10	10	-15	2	31
56-44.7067-108.0628-2-15-						0-W00308	-5	-5	-5	30	-20	24	11	-10	-15	2	21
56-44.6956-108.0494-2-15-						0-W00309	-5	5	-5	20	25	17	-5	-10	-15	2	22
56-44.6711-108.0250-2-15-						0-W00310	-5	-5	-5	-10	25	25	14	-10	-15	2	20
56-44.6850-108.0067-2-15-						0-W00311	-5	-5	6	14	-20	32	11	-10	-15	2	34
56-44.8219-108.1228-2-12-						0-W00312	-5	-5	-5	18	-20	20	-5	-10	-15	1	20
56-44.8128-108.0950-2-11-						0-W00313	-5	-5	-5	26	-20	19	14	-10	-15	2	40
56-44.8122-108.0986-2-15-						0-W00314	-5	-5	-5	35	-20	22	16	-10	-15	2	34
56-44.8047-108.1042-2-15-						0-W00315	-5	-5	-5	24	-20	-15	15	-10	-15	2	33
56-44.8161-108.0644-2-11-						0-W00316	-5	-5	-5	12	22	-15	6	-10	-15	1	16
56-44.7911-108.0147-2-12-						0-W00317	-5	-5	-5	42	-20	22	17	-10	-15	2	48
56-44.7950-108.0319-2-11-						0-W00318	-5	-5	-5	26	24	26	11	-10	-15	2	36
56-44.7917-108.0575-2-15-						0-W00319	-5	-5	-5	23	29	30	13	-10	-15	2	39
56-44.7881-108.0844-2-15-						0-W00320	-5	-5	7	34	23	21	-5	-10	-15	2	31
56-44.9144-108.9883-2-15-						0-W00321	-5	-5	-5	30	25	24	13	-10	-15	2	31
56-44.9094-108.9886-2-15-						0-W00322	-5	-5	-5	34	-20	16	19	-10	-15	2	31

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-44.7917-108.1633-2-15-				0-	W00262		25090	-0.11	501	29370	63	-87	9.3	56	7.0	6	1.4	23040	7.8	11680	43	0.4
56-44.7681-108.1611-2-15-				0-	W00263		28610	0.13	1094	37330	73	-84	8.9	64	3.7	6	1.7	22500	13.7	15890	43	0.4
56-44.6103-108.2050-2-15-				0-	W00264		22880	-0.07	477	19650	65	-58	6.8	35	2.9	4	1.3	13580	11.3	13170	29	0.3
56-44.5156-108.4514-2-15-				0-	W00269		36050	-0.11	722	26780	70	-93	9.9	54	6.1	6	1.7	23120	10.2	20670	37	0.5
56-44.5189-108.4439-2-15-				0-	W00270		19970	-0.07	320	9268	57	-36	6.4	42	2.6	4	1.5	12740	12.9	13230	27	0.3
56-44.5061-108.4433-2-15-				0-	W00271		17060	-0.08	513	8079	62	-36	8.4	59	3.7	4	1.5	20410	12.2	11460	33	0.3
56-44.5228-108.4250-2-15-				0-	W00272		25210	-0.07	702	9704	45	-60	6.5	24	2.5	4	1.5	11920	8.2	15840	17	0.3
56-44.5311-108.3856-2-15-				0-	W00273		15840	-0.08	1604	5518	58	-40	5.7	47	-1.0	4	1.6	12180	19.0	9389	42	0.4
56-44.5303-108.3878-2-15-				0-	W00274		14930	-0.07	600	17400	58	-49	6.6	41	3.2	4	1.6	13440	10.9	11530	27	0.4
56-44.5250-108.4083-2-15-				0-	W00275		17120	-0.07	803	8490	59	-38	9.0	54	3.3	4	1.6	17600	14.6	12070	31	0.4
56-44.3394-108.3206-2-15-				0-	W00280		18230	-0.07	599	8956	58	-50	5.1	50	2.3	4	1.4	12760	23.2	14300	30	0.4
56-44.3439-108.2747-2-12-				0-	W00282		25040	-0.11	1459	10770	67	-63	10.2	53	5.2	6	1.7	19320	11.1	17190	36	0.4
56-44.3389-108.2611-2-15-				0-	W00283		16760	-0.06	452	8568	54	-36	5.7	42	3.0	4	1.4	12500	12.5	11340	27	0.3
56-44.3022-108.2578-2-15-				0-	W00284		17640	-0.07	471	6780	61	-32	6.4	43	3.0	4	1.1	12620	17.3	11860	31	0.5
56-44.2853-108.2783-2-15-				0-	W00285		17070	-0.07	1062	8734	53	-42	4.8	31	2.3	4	1.3	9074	15.0	12970	23	0.3
56-44.2797-108.3017-2-15-				0-	W00286		16190	-0.08	1192	8265	66	-44	6.2	46	3.1	5	1.7	13020	25.4	10900	36	0.4
56-44.3633-108.4014-2-15-				0-	W00288		16770	-0.08	948	8410	88	-39	6.7	52	3.2	4	1.4	16340	39.8	14210	45	0.7
56-44.3217-108.3600-2-15-				0-	W00289		16750	-0.09	2437	9727	89	-40	6.3	56	2.9	5	2.3	12890	53.2	9912	51	0.8
56-44.2733-108.3239-2-15-				0-	W00290		17050	0.22	898	7041	52	-46	5.7	34	3.4	7	1.2	15900	14.4	11570	25	0.4
56-44.2861-108.3656-2-15-				0-	W00291		19800	-0.08	871	7219	61	-37	4.8	40	2.5	4	1.7	11960	33.8	11230	30	0.4
56-44.2861-108.3806-2-15-				0-	W00292		16190	-0.08	977	5141	67	76	6.9	46	3.6	5	1.6	14580	21.6	10600	36	0.4
56-44.2561-108.3900-2-15-				0-	W00293		17060	-0.06	509	6930	49	-32	6.2	36	2.9	4	1.3	11040	13.6	11820	26	0.3
56-44.2578-108.3828-2-15-				0-	W00294		17080	-0.07	462	5352	49	-38	5.5	33	2.6	4	1.1	11480	12.3	11380	24	0.4
56-44.2986-108.2278-2-15-				0-	W00295		19360	-0.07	457	9313	58	-43	5.7	44	3.0	4	1.5	11070	21.9	12760	35	0.4
56-44.3094-108.1961-2-15-				0-	W00296		15980	-0.07	544	7353	64	-37	6.9	53	3.8	4	1.6	15850	20.5	12080	31	0.4
56-44.7578-108.1694-2-15-				0-	W00297		17850	-0.06	550	7087	57	-33	4.9	34	2.2	4	1.5	12840	14.1	12510	33	0.4
56-44.7450-108.1639-2-15-				0-	W00298		25540	-0.07	588	15050	59	-76	4.4	34	3.1	4	1.5	10970	15.8	16480	27	0.5
56-44.7056-108.1417-2-15-				0-	W00299		22130	-0.09	578	10350	59	-66	11.2	53	-1.3	4	1.5	21740	10.4	12980	33	0.3
56-44.6889-108.1150-2-11-				0-	W00300		22590	-0.07	511	64140	63	-66	6.9	60	3.0	4	1.6	19270	13.0	16330	23	0.4
56-44.6800-108.0956-2-12-				0-	W00301		24800	-0.09	576	45920	74	-72	11.3	55	3.6	5	1.7	22540	11.8	17020	40	0.5
56-44.6300-108.0544-2-15-				0-	W00302		19680	-0.07	389	12660	61	-58	9.7	36	3.0	6	1.4	16870	8.6	11230	32	0.4
56-44.6800-108.0750-2-15-				0-	W00303		20340	-0.08	479	10780	60	-82	9.0	41	3.0	4	1.6	19610	16.5	14580	26	0.4
56-44.7333-108.0067-2-12-				0-	W00304		21540	-0.08	956	28510	80	-64	16.8	65	3.0	5	2.1	34130	20.4	11630	40	0.6
56-44.7178-108.0478-2-15-				0-	W00305		19110	-0.08	772	6749	79	-61	16.8	60	3.9	6	2.0	33910	13.6	7363	42	0.5
56-44.7181-108.0500-2-15-				0-	W00306		36980	-0.11	758	18060	78	-110	12.4	52	6.0	9	1.6	25320	5.5	14870	41	0.4
56-44.7119-108.0517-2-12-				0-	W00307		24800	-0.10	267	4433	90	-62	15.8	67	3.1	5	2.4	38800	31.2	11220	50	0.7
56-44.7067-108.0628-2-15-				0-	W00308		20420	-0.09	903	10630	84	-68	17.2	53	3.5	6	2.1	35090	14.5	12170	36	0.6
56-44.6956-108.0494-2-15-				0-	W00309		21110	-0.07	670	6387	61	-77	6.5	45	4.9	5	1.0	16130	9.5	9085	28	0.3
56-44.6711-108.0250-2-15-				0-	W00310		23570	-0.07	798	7738	60	-56	9.8	34	3.2	4	1.4	16610	7.5	14200	27	0.3
56-44.6850-108.0067-2-15-				0-	W00311		35010	-0.10	695	16730	65	-126	13.6	45	4.4	6	1.5	25700	10.3	22580	39	0.4
56-44.8219-108.1228-2-12-				0-	W00312		22440	-0.09	503	17450	61	-168	7.9	56	4.3	4	1.3	16550	6.9	13290	21	0.4
56-44.8128-108.0950-2-11-				0-	W00313		49580	-0.24	356	58240	55	-87	8.0	56	3.6	5	1.2	21040	7.1	14410	-25	0.4
56-44.8122-108.0986-2-15-				0-	W00314		52430	-0.06	395	33940	59	-81	10.4	59	3.5	5	1.4	25760	9.0	11980	28	0.4
56-44.8047-108.1042-2-15-				0-	W00315		57110	-0.07	537	31210	79	-77	11.0	63	3.2	6	1.3	27650	7.5	16080	28	0.4
56-44.8161-108.0644-2-11-				0-	W00316		33480	-0.06	295	56660	75	-53	8.1	68	3.0	4	1.4	19000	22.1	8791	31	0.5
56-44.7911-108.0147-2-12-				0-	W00317		60450	-0.53	457	43640	98	-74	15.9	59	5.5	5	2.1	30990	10.4	17130	-159	-0.2
56-44.7950-108.0319-2-11-				0-	W00318		51150	-0.53	475	33370	66	-78	13.1	65	4.3	5	1.7	27770	11.9	15960	-125	0.5
56-44.7917-108.0575-2-15-				0-	W00319		48850	-0.56	404	54590	67	205	10.9	50	3.8	5	1.5	24190	9.8	12480	-109	0.4
56-44.7881-108.0844-2-15-				0-	W00320		49560	-0.53	462	62170	57	-67	11.1	61	2.9	4	1.4	24190	7.7	13950	-120	0.4
56-44.9144-108.9883-2-15-				0-	W00321		56130	-0.58	756	21930	79	-55	12.8	71	6.0	6	1.9	24540	8.7	17300	-135	-0.2
56-44.9094-108.9886-2-15-				0-	W00322		50980	-0.55	635	17000	66	-56	12.0	81	5.5	5	1.6	24710	9.0	16880	-147	0.7

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.7917-109.1633-2-15-						0-W00262	22940	790	6341	97	-2	9.0	6.0	-295	-1	-1	13.5	3341	54	-2.0	-100	0.415
56-44.7681-109.1611-2-15-						0-W00263	18180	557	13160	60	-2	7.6	5.6	456	-1	-1	12.9	3743	83	3.9	103	0.295
56-44.6103-109.2050-2-15-						0-W00264	13980	335	5537	52	-2	5.1	5.1	-164	-1	-1	8.6	2187	40	-1.5	70	0.326
56-44.5156-108.4514-2-15-						0-W00269	23500	415	11000	91	-3	8.2	7.4	-240	-1	-1	10.6	2863	51	-1.7	87	0.302
56-44.5189-109.4439-2-15-						0-W00270	12670	147	2573	45	-2	5.0	4.9	-131	-1	-1	7.9	1794	45	3.0	65	0.316
56-44.5061-109.4433-2-15-						0-W00271	7472	218	2952	62	-2	7.1	5.6	-138	-1	-1	8.9	1732	37	3.7	81	0.303
56-44.5228-108.4250-2-15-						0-W00272	14060	335	6383	-16	-2	3.8	3.8	-172	-1	-1	5.6	2409	53	-1.1	-34	0.464
56-44.5311-108.3856-2-15-						0-W00273	7186	227	2265	41	-2	4.3	5.3	-135	-1	-1	8.6	1446	38	2.8	-56	0.326
56-44.5303-109.3878-2-15-						0-W00274	12830	237	4537	48	-2	4.9	4.6	233	-1	-1	7.7	1957	31	3.1	58	0.325
56-44.5250-109.4083-2-15-						0-W00275	9602	243	3059	50	-2	5.2	5.8	-150	-1	-1	9.4	1957	37	5.1	70	0.298
56-44.3394-108.3206-2-15-						0-W00280	11670	314	4972	38	-2	4.4	4.5	-152	-1	-1	8.3	2049	39	3.2	41	0.410
56-44.3439-109.2747-2-12-						0-W00282	13390	307	4475	-24	-2	7.5	5.7	-185	-1	1	10.6	3638	63	4.5	61	0.311
56-44.3389-108.2611-2-15-						0-W00283	8937	184	2729	52	-1	4.6	4.2	-134	-1	-1	7.5	1892	40	2.4	48	0.333
56-44.3022-109.2578-2-15-						0-W00284	10370	114	2581	43	-2	5.1	5.0	-111	-1	-1	9.0	1772	39	2.4	44	0.333
56-44.2853-109.2783-2-15-						0-W00285	11040	247	3173	-15	-2	3.5	3.7	-142	-1	-1	6.5	2296	43	3.0	41	0.446
56-44.2797-108.3017-2-15-						0-W00286	8861	259	2560	49	-2	4.9	5.0	-145	-1	-1	9.3	1753	35	4.9	42	0.344
56-44.3533-108.4014-2-15-						0-W00288	9862	228	2975	63	-2	5.9	6.5	-157	-1	-1	12.1	2353	36	5.6	51	0.380
56-44.3217-108.3600-2-15-						0-W00289	9551	372	2116	50	-2	5.7	8.3	-177	-1	-1	17.0	2372	45	6.5	88	0.365
56-44.2733-108.3239-2-15-						0-W00290	7713	266	2577	-19	-2	5.4	5.0	-152	-1	-1	8.0	3057	44	3.2	63	0.425
56-44.2861-108.3656-2-15-						0-W00291	6725	303	1557	50	-2	4.4	4.7	-145	-1		9.7	1615	47	3.7	36	0.381
56-44.2861-108.3806-2-15-						0-W00292	8111	230	1975	57	-2	5.5	5.7	-150	-1	-1	9.7	1974	33	4.5	47	0.361
56-44.2561-108.3900-2-15-						0-W00293	9913	198	2190	46	-1	4.3	4.9	-125	-1	-1	7.3	1849	39	3.0	62	0.370
56-44.2578-108.3828-2-15-						0-W00294	8492	252	2130	48	-2	4.1	4.5	-141	-1	-1	7.5	1766	37	3.3	51	0.387
56-44.2986-108.2278-2-15-						0-W00295	8136	343	2032	35	-2	4.5	5.8	-164	-1	-1	9.0	1708	44	4.1	52	0.367
56-44.3094-108.1961-2-15-						0-W00296	8751	209	2337	52	-2	5.0	5.4	-148	-1	-1	10.4	1716	36	4.0	28	0.317
56-44.7578-109.1694-2-15-						0-W00297	7312	253	1928	44	-1	4.5	4.3	-144	-1	-1	9.4	2133	41	2.7	53	0.319
56-44.7450-108.1639-2-15-						0-W00298	9485	237	10470	48	-2	3.8	4.0	290	-1	-1	8.4	2451	38	3.8	64	0.429
56-44.7056-108.1417-2-15-						0-W00299	6903	258	8572	-23	-2	7.5	5.1	245	-1	-1	8.6	1818	31	3.2	46	0.279
56-44.6889-109.1150-2-11-						0-W00300	23520	352	7768	48	-2	6.1	4.6	465	-1	-1	7.0	1851	41	2.9	74	0.343
56-44.6800-108.0956-2-12-						0-W00301	16490	345	9249	-25	-2	7.8	7.2	351	-1	-1	12.2	2268	49	4.5	104	0.328
56-44.6300-108.0544-2-15-						0-W00302	9198	475	4316	49	-2	4.5	4.6	-197	-1	-1	9.0	2699	37	3.3	61	0.444
56-44.6800-108.0750-2-15-						0-W00303	7411	1086	6523	-19	-2	5.1	5.1	-280	-1	-1	7.8	1845	32	3.4	73	0.385
56-44.7333-109.0067-2-12-						0-W00304	11390	522	6082	-24	-2	9.0	6.7	-246	2	-1	11.7	2581	41	4.8	70	0.342
56-44.7178-108.0478-2-15-						0-W00305	7262	429	3848	61	-2	9.1	6.5	-303	-1	-1	11.3	3556	45	4.6	109	0.363
56-44.7181-109.0500-2-15-						0-W00306	16380	617	5441	62	-3	9.2	6.7	-463	-1	-1	11.8	3825	78	4.0	-111	0.407
56-44.7119-108.0517-2-12-						0-W00307	6570	609	4194	63	-2	8.7	8.8	-219	-1	-1	13.0	2270	51	6.3	94	0.331
56-44.7067-108.0628-2-15-						0-W00308	8092	1151	3423	-24	-2	8.2	7.1	-336	-1	-1	11.5	3487	42	5.2	69	0.348
56-44.6955-108.0494-2-15-						0-W00309	8406	574	4710	70	-2	5.8	5.6	-363	-1	-1	12.6	2944	42	2.5	93	0.381
56-44.6711-108.0250-2-15-						0-W00310	9900	223	5455	55	-2	4.7	4.1	-151	-1	-1	9.2	1415	38	2.9	-59	0.446
56-44.6850-108.0067-2-15-						0-W00311	13000	1588	10430	58	-2	6.8	5.3	-422	-1	-1	12.2	2504	49	3.5	84	0.335
56-44.8219-108.1228-2-12-						0-W00312	9195	1025	42580	-26	-2	6.8	4.6	-457	-1	-1	7.9	2172	32	2.3	70	0.329
56-44.8128-108.0950-2-11-						0-W00313	28520	648	5369	-29	-5	7.5	5.4	-298	-1	-1	9.3	3946	77	-3.6	-52	0.323
56-44.8122-108.0986-2-15-						0-W00314	29950	920	4792	41	-1	9.6	5.8	-297	-1	-1	9.6	3363	84	2.6	74	0.396
56-44.8047-108.1042-2-15-						0-W00315	26880	830	5956	53	-2	8.9	7.0	-332	-1	-1	11.0	3982	89	3.5	69	0.318
56-44.8161-108.0644-2-11-						0-W00316	35040	212	3724	-24	-2	7.6	5.8	231	-1	-1	10.0	3473	45	4.3	33	0.270
56-44.7911-108.0147-2-12-						0-W00317	33040	805	5065	-40	-15	10.6	-9.9	-317	-1	-1	12.4	4038	90	-5.4	104	0.290
56-44.7950-108.0319-2-11-						0-W00318	23810	749	5905	45	-12	8.5	-8.9	-269	-1	1	10.3	4281	80	-5.8	104	0.350
56-44.7917-108.0575-2-15-						0-W00319	30960	715	7260	-31	-13	7.5	-9.5	-262	-1	-1	9.8	3939	66	-4.5	76	0.327
56-44.7881-108.0844-2-15-						0-W00320	33500	519	6919	-30	-12	8.0	-8.6	-235	-1	-1	9.0	2855	73	-4.3	68	0.289
56-44.9144-108.9883-2-15-						0-W00321	21140	295	4288	53	-14	9.5	-8.8	-200	-1	-1	13.0	3909	104	-4.9	90	0.277
56-44.9094-108.9886-2-15-						0-W00322	21790	287	4549	65	-13	9.9	-9.5	-183	-1	-1	11.4	3460	90	-4.3	115	0.316

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
							TIME SAMPLED																												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU,ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.9094-108.9861-2-15-						0-W00323-08/04/75-14-			25-		-	-	-	-	-	3-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	3.50
56-44.8981-108.9172-2-15-						0-W00324-08/04/75-14-			25-		-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	2.90
56-44.9883-109.8133-2-15-						0-W00325-08/04/75-14-			25-		-	-	-	-	-	9-1-7-5-6-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	3.00
56-44.9569-108.7511-2-15-						0-W00326-08/04/75-15-			26-		-	-	-	-	-	6-1-7-3-6-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	3.80
56-44.9653-108.8006-2-15-						0-W00327-08/04/75-15-			25-		-	-	-	-	-	6-1-7-6-8-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	3.00
56-44.9583-108.7872-2-15-						0-W00328-08/04/75-15-			25-		-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	2.60
56-44.9939-108.8961-2-15-						0-W00329-08/04/75-16-			25-		-0-	-	-	-	-	5-1-7-4-8-	-	-	-	-3-2-2-2-	-9-	-	-	-	-	1.70
56-44.9617-109.8633-2-15-						0-W00330-08/04/75-16-			25-		-	-	-	-	-	3-1-7-4-6-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	2.90
56-44.9328-108.8356-2-15-						0-W00331-08/04/75-15-			25-		-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	3.30
56-44.9272-108.7528-2-15-						0-W00332-08/04/75-15-			25-		-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	2.50
56-44.9167-108.7756-2-15-						0-W00333-08/04/75-15-			25-		-	-	-	-	-	9-1-7-4-6-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	2.40
56-44.9411-108.8039-2-15-						0-W00334-08/04/75-16-			25-		-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	2.70
56-44.7489-108.8289-2-15-						0-W00335-08/06/75-11-			23-		-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	2.80
56-44.7267-108.8667-2-12-						0-W00336-08/05/75-12-			24-17.0-		-	-	6.5-	310-	-	6-1-7-3-6-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	3.10
56-44.7278-108.8644-2-12-						0-W00337-08/06/75-12-			25-17.0-		-	-	6.6-	320-	-	6-1-7-4-8-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	3.20
56-44.7439-108.9328-2-12-						0-W00338-08/06/75-12-			25-15.0-		-	-	6.9-	260-	-	9-1-7-4-6-3-3-1-				-4-2-2-1-	-1-	-	-	-	-	2.40
56-44.7114-108.9589-2-12-						0-W00339-08/06/75-12-			25-14.0-		-	-	5.8-	70-	-	9-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.50
56-44.7161-108.9261-2-12-						0-W00340-08/06/75-13-			25-13.0-		-	-	6.6-	500-	-	6-1-7-4-6-3-3-1-				-4-3-2-1-	-1-	-	-	-	-	2.50
56-44.6956-108.9128-2-12-						0-W00341-08/06/75-13-			25-21.0-		-	-	6.0-	330-	-	6-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	3.00
56-44.6906-108.9278-2-12-						0-W00342-08/06/75-13-			25-21.0-		-	-	6.0-	430-	-	6-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.60
56-44.7011-108.9794-2-12-						0-W00344-08/05/75-13-			25-15.0-		-	-	6.0-	300-	-	9-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	3.30
56-44.7028-108.9794-2-15-						0-W00345-08/05/75-13-			25-		-	-	-	-	-	12-1-7-4-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	3.30
56-44.6772-108.9511-2-12-						0-W00346-08/05/75-14-			30-19.0-		-	-	6.9-	1000-	-	6-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	3.30
56-44.6611-108.9522-2-12-						0-W00347-08/05/75-14-			30-19.0-		-	-	6.3-	160-	-	3-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.50
56-44.6506-108.9739-2-12-						0-W00348-08/05/75-14-			30-21.0-		-	-	6.6-	490-	-	6-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	2.70
56-44.6244-108.9611-2-15-						0-W00349-08/05/75-14-			30-		-	-	-	-	-	9-1-7-4-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	3.00
56-44.5872-108.9839-2-15-						0-W00350-08/05/75-14-			30-		-	-	-	-	-	6-1-7-4-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	2.50
56-44.5661-108.9944-2-12-						0-W00351-08/05/75-14-			30-22.0-		-	-	6.9-	100-	-	9-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	3.70
56-44.5283-108.9856-2-12-						0-W00352-08/05/75-15-			33-20.0-		-	-	6.6-	800-	-	12-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	4.20
56-44.5289-108.9839-2-12-						0-W00353-08/05/75-15-			33-23.0-		-	-	6.3-	360-	-	9-1-7-4-6-3-3-1-				-4-3-3-1-	-1-	-	-	-	-	3.20
56-44.5106-108.9317-2-15-						0-W00354-08/05/75-15-			33-		-	-	-	-	-	6-1-7-5-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	2.90
56-44.5311-108.9139-2-15-						0-W00355-08/05/75-15-			33-		-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	2.50
56-44.5300-108.8889-2-15-						0-W00356-08/05/75-15-			33-		-	-	-	-	-	12-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	2.70
56-44.5761-108.8978-2-15-						0-W00357-08/05/75-15-			33-		-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	2.90
56-44.5689-108.9533-2-15-						0-W00358-08/05/75-15-			33-		-	-	-	-	-	9-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	2.90
56-44.5778-108.9528-2-15-						0-W00359-08/05/75-16-			33-		-	-	-	-	-	12-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	3.50
56-44.5500-108.9656-2-12-						0-W00360-08/05/75-17-			30-22.0-		-	-	6.3-	260-	-	9-1-7-4-7-3-3-1-				-3-2-2-1-	-1-	-	-	-	-	2.20
56-44.6761-108.9022-2-15-						0-W00361-08/05/75-18-			28-		-	-	-	-	-	9-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	3.40
56-44.5606-108.9150-2-15-						0-W00362-08/05/75-18-			28-		-	-	-	-	-	9-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	4.60
56-44.6511-108.9256-2-15-						0-W00363-08/05/75-18-			28-		-	-	-	-	-	9-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	5.40
56-44.6850-108.9417-2-15-						0-W00364-08/05/75-19-			28-		-	-	-	-	-	12-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	2.90
56-44.6678-108.8317-2-15-						0-W00365-08/05/75-19-			28-		-	-	-	-	-	12-1-7-4-6-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	3.70
56-44.6639-108.8372-2-15-						0-W00366-08/05/75-19-			28-		-	-	-	-	-	6-1-7-4-7-	-	-	-	-3-2-2-1-	-1-	-	-	-	-	3.40
56-44.7289-108.7606-2-15-						0-W00369-08/06/75- 8-			22-		-	-	-	-	-	12-1-7-5-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	2.90
56-44.7100-108.7600-2-15-						0-W00370-08/06/75- 9-			23-		-	-	-	-	-	3-1-7-5-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	3.20
56-44.6811-108.7939-2-15-						0-W00374-08/06/75- 9-			25-		-	-	-	-	-	9-1-7-4-6-	-	-	-	-4-3-3-1-	-1-	-	-	-	-	3.60
56-44.6717-108.7753-2-15-						0-W00375-08/06/75- 9-			25-		-	-	-	-	-	6-1-7-4-6-	-	-	-	-3-3-3-1-	-1-	-	-	-	-	2.80
56-44.4828-108.5536-2-15-						0-W00376-08/15/75-12-			29-		-	-	-	-	-	9-1-1-5-1-	-1-	-	-4-2-2-3-		-1-	-	-	-	-	3.30
56-44.4839-108.5528-2-15-						0-W00377-08/15/75-12-			29-		-	-	-	-	-	10-1-4-5-4-	-1-	-	-4-2-2-3-		-1-	-	-	-	-	3.00
56-44.4681-108.5319-2-15-						0-W00378-08/15/75-12-			29-		-	-	-	-	-	15-1-4-5-6-	-1-	-	-4-2-3-3-		-1-	-	-	-	-	2.80
56-44.4569-108.5317-2-12-						0-W00379-08/15/75-12-			27-17.5-		-	-	6.9-	22000-	-	10-1-4-4-5-2-2-1-				-4-2-2-3-	-1-	-	-	-	-	4.40

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

(2)

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)									Concentrations in weight ppm	
							Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-	44.9094-	108.9861-	2-	15-	0-	W00323	-5	-5	-5	24	30	32	13	-10	-15	2	33
56-	44.8981-	108.9172-	2-	15-	0-	W00324	-5	-5	-5	12	-20	-15	10	-10	-15	2	23
56-	44.9383-	108.8133-	2-	15-	0-	W00325	-5	-5	-5	39	-20	-15	10	-10	-15	2	33
56-	44.9569-	108.7511-	2-	15-	0-	W00326	-5	-5	-5	21	29	25	21	-10	-15	2	34
56-	44.9653-	108.8006-	2-	15-	0-	W00327	-5	-5	-5	31	20	48	21	-10	-15	2	29
56-	44.9583-	108.7872-	2-	15-	0-	W00328	-5	-5	-5	25	36	31	11	-10	-15	2	30
56-	44.9939-	108.8961-	2-	15-	0-	W00329	-5	-5	-5	19	-20	-15	-5	-10	-15	-1	23
56-	44.9617-	108.8633-	2-	15-	0-	W00330	-5	-5	-5	17	-20	-15	9	-10	-15	2	21
56-	44.9328-	108.8356-	2-	15-	0-	W00331	-5	-5	-5	23	21	22	25	-10	-15	2	29
56-	44.9272-	108.7528-	2-	15-	0-	W00332	-5	-5	-5	33	-20	20	11	-10	-15	2	24
56-	44.9167-	108.7756-	2-	15-	0-	W00333	-5	-5	-5	35	22	41	11	-10	-15	2	29
56-	44.9411-	108.8039-	2-	15-	0-	W00334	-5	-5	-5	32	43	31	18	-10	-15	2	24
56-	44.7489-	108.8289-	2-	15-	0-	W00335	-5	-5	-5	27	-20	-15	8	-10	-15	2	24
56-	44.7267-	108.8667-	2-	12-	0-	W00336	-5	-5	-5	31	-20	30	12	-10	17	2	24
56-	44.7278-	108.8644-	2-	12-	0-	W00337	-5	-5	-5	17	22	24	12	-10	-15	2	18
56-	44.7439-	108.9328-	2-	12-	0-	W00338	-5	-5	-5	28	-20	20	13	-10	-15	1	20
56-	44.7114-	108.9689-	2-	12-	0-	W00339	-5	-5	-5	15	-20	-15	12	-10	-15	2	22
56-	44.7151-	108.9261-	2-	12-	0-	W00340	-5	-5	-5	30	-20	-15	6	-10	-15	2	22
56-	44.6956-	108.9128-	2-	12-	0-	W00341	-5	-5	-5	21	26	16	10	-10	-15	2	24
56-	44.6906-	108.9278-	2-	12-	0-	W00342	-5	-5	-5	16	-20	-15	11	-10	-15	2	20
56-	44.7011-	108.9794-	2-	12-	0-	W00344	-5	-5	-5	11	-20	-15	6	-10	-15	2	24
56-	44.7028-	108.9794-	2-	15-	0-	W00345	-5	-5	-5	30	-20	16	13	-10	-15	2	22
56-	44.6772-	108.9511-	2-	12-	0-	W00346	-5	-5	-5	33	-20	-15	-5	-10	-15	2	19
56-	44.6611-	108.9522-	2-	12-	0-	W00347	-5	-5	-5	14	-20	23	15	-10	-15	2	22
56-	44.6506-	108.9739-	2-	12-	0-	W00348	-5	-5	-5	16	-20	23	12	-10	-15	1	23
56-	44.6244-	108.9611-	2-	15-	0-	W00349	-5	-5	-5	31	-20	15	51	-10	-15	2	17
56-	44.5872-	108.9839-	2-	15-	0-	W00350	-5	-5	-5	14	-20	-15	16	-10	-15	1	18
56-	44.5661-	108.9944-	2-	12-	0-	W00351	-5	-5	-5	28	-20	-15	-5	-10	-15	2	20
56-	44.5283-	108.9856-	2-	12-	0-	W00352	-5	-5	-5	32	-20	-15	18	-10	-15	2	20
56-	44.5289-	108.9839-	2-	12-	0-	W00353	-5	-5	-5	29	-20	30	12	-10	-15	2	25
56-	44.5106-	108.9317-	2-	15-	0-	W00354	-5	-5	-5	26	-20	38	28	-10	-15	2	32
56-	44.5311-	108.9139-	2-	15-	0-	W00355	-5	-5	-5	-10	-20	-15	9	-10	-15	1	11
56-	44.5300-	108.8889-	2-	15-	0-	W00356	-5	-5	-5	12	-20	-15	7	-10	-15	2	23
56-	44.5761-	108.8978-	2-	15-	0-	W00357	-5	5	-5	24	-20	-15	9	-10	-15	2	22
56-	44.5689-	108.9533-	2-	15-	0-	W00358	-5	-5	-5	18	-20	-15	6	-10	-15	1	15
56-	44.5778-	108.9528-	2-	15-	0-	W00359	-5	-5	-5	16	-20	-15	12	-10	-15	2	30
56-	44.5500-	108.9656-	2-	12-	0-	W00360	-5	-5	-5	18	-20	-15	17	-10	-15	1	10
56-	44.6761-	108.9022-	2-	15-	0-	W00361	-5	-5	-5	25	-20	16	17	-10	-15	2	20
56-	44.6606-	108.9150-	2-	15-	0-	W00362	-5	-5	-5	13	-20	16	8	-10	-15	2	17
56-	44.6511-	108.9256-	2-	15-	0-	W00363	-5	-5	-5	-10	-20	40	6	-10	-15	2	18
56-	44.6350-	108.8417-	2-	15-	0-	W00364	-5	6	-5	-10	-20	-15	13	-10	-15	2	17
56-	44.6678-	108.8317-	2-	15-	0-	W00365	-5	-5	-5	-10	-20	17	16	-10	-15	1	13
56-	44.6639-	108.8372-	2-	15-	0-	W00366	-5	-5	-5	19	-20	-15	20	-10	-15	2	21
56-	44.7289-	108.7606-	2-	15-	0-	W00369	-5	-5	-5	28	-20	43	10	-10	-15	2	23
56-	44.7100-	108.7600-	2-	15-	0-	W00370	-5	-5	-5	35	-20	41	17	-10	-15	2	33
56-	44.6811-	108.7939-	2-	15-	0-	W00374	-5	-5	-5	-10	-20	-15	10	-10	-15	1	16
56-	44.6717-	108.7753-	2-	15-	0-	W00375	-5	-5	-5	31	-20	-15	15	-10	-15	2	24
56-	44.4828-	108.5536-	2-	15-	0-	W00376	-5	-5	-5	26	-20	31	9	-10	-15	2	38
56-	44.4839-	108.5528-	2-	15-	0-	W00377	-5	-5	-5	19	-20	-15	15	-10	-15	2	29
56-	44.4681-	108.5319-	2-	15-	0-	W00378	-5	-5	-5	21	-20	19	7	-10	-15	2	36
56-	44.4669-	108.5317-	2-	12-	0-	W00379	-5	-5	-5	21	-20	19	14	-10	-15	1	16

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-44.9094-108.9861-2-15-						0-W00323	57970	-0.55	537	15450	62	-54	10.1	54	4.4	5	1.3	18670	8.5	15260	-85	0.3
56-44.8981-108.9172-2-15-						0-W00324	44040	-0.50	559	13930	53	-53	9.6	53	3.6	4	1.4	19120	9.6	15450	-113	0.5
56-44.9883-108.8133-2-15-						0-W00325	60600	-0.54	697	16610	73	-61	11.6	72	4.6	5	1.7	26780	9.6	17720	-135	0.7
56-44.9569-108.7511-2-15-						0-W00326	58790	-0.60	652	14380	71	155	9.4	52	4.6	5	1.5	26060	7.0	16510	-123	0.7
56-44.9553-108.8006-2-15-						0-W00327	59280	-0.60	653	10460	69	-66	12.1	75	5.6	5	1.6	24870	9.8	18690	-119	0.6
56-44.9583-108.7872-2-15-						0-W00328	52370	-0.44	614	10430	66	-59	10.4	62	3.4	4	1.5	23450	10.1	17780	-100	0.3
56-44.9939-108.8961-2-15-						0-W00329	32300	-0.44	415	161500	43	265	4.7	26	5.9	2	1.1	10690	5.5	11050	-118	-0.1
56-44.9617-108.8633-2-15-						0-W00330	44240	-0.46	751	17640	74	-68	6.7	45	3.0	5	1.4	16250	13.8	13490	-93	0.6
56-44.9328-108.8356-2-15-						0-W00331	67430	-0.52	623	13040	66	-72	11.6	52	5.6	5	1.7	24080	7.8	20650	-112	-0.2
56-44.9272-108.7528-2-15-						0-W00332	57860	-0.47	623	12280	74	-66	14.2	87	3.7	4	2.0	28220	10.8	17100	-103	0.5
56-44.9167-108.7756-2-15-						0-W00333	58790	-0.48	710	12140	61	-76	12.3	69	3.8	4	1.6	25220	7.1	17850	-115	0.5
56-44.9411-108.8039-2-15-						0-W00334	49330	-0.47	522	14020	56	-69	8.5	48	3.1	4	1.3	18700	10.4	16350	-86	0.3
56-44.7489-108.8289-2-15-						0-W00335	45720	-0.41	555	20960	64	-62	9.8	65	3.9	4	1.5	21180	11.4	17340	-81	0.5
56-44.7267-108.8667-2-12-						0-W00336	48180	-0.06	702	51550	63	-103	9.1	97	1.7	5	1.3	25170	12.6	14730	34	0.4
56-44.7278-108.8644-2-12-						0-W00337	41690	-0.48	588	22470	69	-66	8.8	66	2.7	4	1.4	17640	16.6	14850	-102	0.4
56-44.7439-108.9323-2-12-						0-W00338	43560	-0.39	537	30210	60	-60	8.9	59	2.5	4	1.4	18540	9.6	15200	-89	0.3
56-44.7114-108.9689-2-12-						0-W00339	43760	-0.36	561	17010	49	-69	7.4	46	2.1	4	1.2	15390	9.8	15280	-77	0.3
56-44.7161-108.9261-2-12-						0-W00340	45950	-0.44	553	24260	53	-77	7.9	59	1.8	4	1.3	17140	11.0	15750	-94	0.7
56-44.6956-108.9128-2-12-						0-W00341	48210	-0.50	751	25330	55	-68	10.0	56	3.9	4	1.5	20520	10.2	15340	-104	-0.2
56-44.6906-108.9278-2-12-						0-W00342	41950	-0.37	633	27670	64	-60	8.2	66	1.6	4	1.3	16630	13.3	15790	-82	0.4
56-44.7011-108.9794-2-12-						0-W00344	41810	-0.40	601	32900	68	-75	8.2	66	2.2	5	1.3	19500	17.0	12510	-94	0.6
56-44.7028-108.9794-2-15-						0-W00345	46810	-0.46	522	29350	59	-74	8.8	73	2.3	5	1.2	17220	12.8	13350	-83	0.4
56-44.6772-108.9511-2-12-						0-W00346	45960	-0.53	595	29100	70	78	9.7	73	2.6	5	1.5	20330	18.5	15800	-111	0.4
56-44.6611-108.9522-2-12-						0-W00347	48470	-0.47	691	27100	69	189	11.5	77	3.9	4	1.6	24290	10.5	14450	-110	0.4
56-44.6506-108.9739-2-12-						0-W00348	37980	-0.37	644	36420	55	-66	10.1	55	2.9	4	1.2	16550	8.3	15450	-85	-0.1
56-44.6244-108.9611-2-15-						0-W00349	47110	-0.47	592	26240	57	-81	9.7	66	1.5	4	1.2	20070	10.9	12630	-92	0.4
56-44.5872-108.9839-2-15-						0-W00350	38890	-0.42	537	14250	48	-51	8.0	40	2.8	3	1.2	16060	11.1	13960	-89	0.4
56-44.5661-108.9944-2-12-						0-W00351	48190	-0.48	577	18030	77	-61	11.8	81	3.6	5	1.7	22500	21.7	12270	-117	0.5
56-44.5283-108.9855-2-12-						0-W00352	46270	-0.47	907	25700	75	-78	13.8	113	2.4	4	1.6	30100	17.1	12920	-114	0.4
56-44.5289-108.9839-2-12-						0-W00353	51830	-0.47	719	27130	69	-81	8.7	74	2.4	5	1.6	17160	14.9	16790	-89	0.4
56-44.5106-108.9317-2-15-						0-W00354	59020	-0.64	939	32210	71	-71	14.2	62	5.8	5	1.7	29550	5.4	19300	-132	-0.2
56-44.5311-108.9139-2-15-						0-W00355	20800	-0.31	837	13080	53	-43	6.2	39	1.2	4	1.3	13810	17.5	11570	-88	0.5
56-44.5300-108.8889-2-15-						0-W00356	41960	-0.36	521	8979	50	-52	6.7	51	3.7	4	1.2	15820	12.3	14710	-87	0.5
56-44.5761-108.8978-2-15-						0-W00357	38060	-0.38	558	20620	62	-53	8.0	51	3.5	4	1.5	15080	9.3	14800	-87	0.4
56-44.5689-108.9533-2-15-						0-W00358	29290	-0.34	847	13560	57	-53	6.1	34	2.1	4	1.4	11920	14.6	10820	-85	0.3
56-44.5774-108.9528-2-15-						0-W00359	53220	-0.58	543	23510	63	-70	10.0	48	4.2	6	1.6	19610	7.4	17210	-123	0.7
56-44.5500-108.9656-2-12-						0-W00360	31410	-0.38	631	11040	55	-47	6.3	42	2.3	4	1.3	13370	10.1	9648	-82	0.3
56-44.6761-108.9022-2-15-						0-W00361	39890	-0.43	617	27370	77	-59	11.9	93	2.8	5	1.6	24500	17.7	13850	-90	0.7
56-44.6606-108.9150-2-15-						0-W00362	32130	-0.44	773	30030	84	-74	12.8	113	1.5	5	1.6	29350	22.7	10390	-102	0.5
56-44.6511-108.9256-2-15-						0-W00363	31980	-0.52	949	31820	102	-77	13.9	158	1.9	6	1.6	36220	39.2	8044	-71	0.7
56-44.6850-108.8417-2-15-						0-W00364	30580	-0.40	578	23350	53	-53	6.1	30	2.7	4	1.3	11470	13.3	12350	-81	0.4
56-44.6678-108.8317-2-15-						0-W00365	24000	-0.34	638	21550	76	-44	5.5	48	1.5	5	1.4	10880	31.1	10270	-67	0.6
56-44.6639-108.8372-2-15-						0-W00366	35820	-0.43	624	26710	60	-63	8.5	44	3.4	5	1.5	14990	13.0	15690	-97	0.4
56-44.7289-108.7606-2-15-						0-W00369	52010	-0.56	715	26550	58	-82	11.2	80	1.9	4	1.4	24420	9.4	13430	-119	0.6
56-44.7100-108.7600-2-15-						0-W00370	51960	-0.68	622	27380	71	-75	16.7	85	4.8	4	1.6	33300	6.5	16070	-142	-0.2
56-44.6811-108.7939-2-15-						0-W00374	26310	-0.35	901	19410	72	-46	6.2	47	2.1	5	1.6	13250	26.9	10250	-78	0.5
56-44.6717-108.7753-2-15-						0-W00375	39190	-0.39	663	19770	49	-60	6.3	39	3.0	4	1.3	15680	8.1	11330	-99	0.4
56-44.4828-108.5536-2-15-						0-W00376	57740	-0.53	571	15300	68	-61	8.2	57	4.6	6	1.6	20600	7.5	20600	-103	0.3
56-44.4839-108.5528-2-15-						0-W00377	51290	-0.54	653	13970	59	-53	8.3	47	3.8	5	1.4	19960	8.0	15750	-120	0.3
56-44.4681-108.5319-2-15-						0-W00378	39520	-0.38	558	21750	55	-61	6.7	43	2.9	4	1.3	14710	9.2	15020	-91	0.3
56-44.4669-108.5317-2-12-						0-W00379	32490	-0.40	806	19250	102	119	5.2	59	-0.9	6	1.6	13820	39.2	9977	-73	0.6

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.9094-108.9861-2-15-					0-	W00323	19480	260	4011	62	-13	7.4	-8.2	-154	-1	-1	10.7	3619	84	8.8	79	0.327
56-44.8981-108.9172-2-15-					0-	W00324	14230	296	4945	-29	-12	6.3	-8.7	-137	-1	-1	8.9	2796	72	-4.3	93	0.325
56-44.9883-108.8133-2-15-					0-	W00325	20450	422	4276	-33	-13	9.2	-8.6	-226	-1	-1	11.2	3510	87	-4.3	101	0.268
56-44.9569-108.7511-2-15-					0-	W00326	16930	258	12120	-35	-14	7.2	-9.8	-213	-1	-1	10.8	3123	68	-4.9	89	0.352
56-44.9553-108.9006-2-15-					0-	W00327	15400	347	7159	-32	-14	9.0	-9.7	-219	-1	-1	11.9	3719	78	-6.0	73	0.252
56-44.9583-108.7872-2-15-					0-	W00328	18120	410	7257	-26	-11	8.0	-7.6	-203	-1	-1	8.7	3391	74	5.7	106	0.299
56-44.9939-108.8961-2-15-					0-	W00329	17680	246	5968	38	-9	4.0	-7.6	2206	-1	-1	6.0	1977	45	-3.7	73	0.283
56-44.9617-108.8633-2-15-					0-	W00330	12840	352	7526	56	-10	5.1	-8.1	-184	-1	-1	8.4	3161	52	-3.7	80	0.345
56-44.9328-108.8356-2-15-					0-	W00331	14970	310	10140	76	-13	8.0	-9.3	-213	-1	-1	10.5	3604	72	-4.7	102	0.314
56-44.9272-108.7528-2-15-					0-	W00332	20560	445	8323	77	-12	9.8	-6.9	-216	-1	-1	12.0	3550	79	7.1	94	0.217
56-44.9167-108.7754-2-15-					0-	W00333	20720	462	7340	53	-11	9.8	-7.8	-219	-1	-1	9.4	3805	73	-3.9	104	0.255
56-44.9411-108.8039-2-15-					0-	W00334	15860	355	7536	52	-11	6.3	-7.6	-189	-1	-1	8.2	2608	66	-3.9	83	0.329
56-44.7489-108.8289-2-15-					0-	W00335	21440	365	8120	62	-10	6.9	-6.6	-200	-1	-1	9.7	3060	67	-3.3	61	0.289
56-44.7267-108.8667-2-12-					0-	W00336	30980	559	11130	-26	-1	8.2	5.5	-274	-1	-1	12.7	3906	84	3.6	62	0.244
56-44.7278-108.8544-2-12-					0-	W00337	18620	333	8212	-27	-11	5.9	-8.7	-213	-1	-1	11.9	3217	51	6.5	67	0.269
56-44.7439-108.9329-2-12-					0-	W00338	23350	363	7636	49	-9	6.1	-6.2	-198	-1	-1	9.7	2401	52	-3.2	43	0.247
56-44.7114-108.9689-2-12-					0-	W00339	21150	318	8229	-22	-9	5.5	-6.1	-179	-1	-1	7.9	2979	54	4.9	-21	0.316
56-44.7161-108.9261-2-12-					0-	W00340	19680	336	9826	-23	-10	5.8	-7.6	-195	-1	-1	10.3	2462	57	-3.9	-26	0.231
56-44.6956-108.9128-2-12-					0-	W00341	22050	364	8401	-29	-12	7.0	-8.7	-223	-1	-1	8.9	2826	73	-4.6	74	0.337
56-44.6906-108.9278-2-12-					0-	W00342	18000	331	8716	-22	-9	5.7	-6.0	293	-1	-1	10.2	2585	46	4.3	38	0.255
56-44.7011-108.9794-2-12-					0-	W00344	20350	440	7578	-24	-10	6.4	-7.2	-205	-1	-1	12.7	3660	54	-3.4	76	0.260
56-44.7028-108.9794-2-15-					0-	W00345	19720	342	9136	-23	-11	6.0	-7.8	-173	-1	-1	9.4	3238	66	-4.9	65	0.351
56-44.6772-108.9511-2-12-					0-	W00346	13340	353	8250	-29	-12	7.2	-8.9	-223	-1	-1	12.4	2865	65	7.3	112	0.266
56-44.6611-108.9522-2-12-					0-	W00347	20920	408	9310	-28	-11	7.8	-7.1	-220	-1	-1	11.0	2876	61	5.3	65	0.227
56-44.6506-108.9739-2-12-					0-	W00348	24330	491	5412	49	-9	5.2	-6.8	-209	-1	-1	9.1	2555	47	-3.3	60	0.297
56-44.5244-108.9611-2-15-					0-	W00349	18520	481	8831	44	-11	6.4	13.9	-220	-1	-1	9.9	2946	69	7.5	72	0.303
56-44.5872-108.9839-2-15-					0-	W00350	12210	268	5738	-23	-10	5.3	-7.1	-174	-1	-1	7.2	2594	55	-4.4	53	0.347
56-44.5661-108.9944-2-12-					0-	W00351	20450	426	6541	39	-11	9.0	-7.5	-217	-1	-1	11.6	3928	77	8.0	102	0.319
56-44.5283-108.9856-2-12-					0-	W00352	18140	577	8311	-31	-11	9.1	-8.1	305	-1	-1	13.1	4677	109	6.7	136	0.321
56-44.5289-108.9839-2-12-					0-	W00353	20870	350	11390	51	-10	5.4	-7.4	-197	-1	-1	8.7	3707	70	5.8	90	0.368
56-44.5106-108.9317-2-15-					0-	W00354	21980	541	5913	71	-15	10.2	-9.9	-274	-1	-1	12.0	3170	85	-5.9	109	0.242
56-44.5311-108.9139-2-15-					0-	W00355	6872	375	3634	38	-7	3.5	-5.5	-173	-1		8.2	2462	41	4.9	33	0.305
56-44.5300-108.8889-2-15-					0-	W00356	11010	233	4774	-23	-9	5.6	10.6	-148	-1	-1	7.9	2823	68	-3.0	52	0.342
56-44.5761-108.8978-2-15-					0-	W00357	14830	347	5554	53	-9	5.5	-6.0	-183	-1	-1	9.5	3156	56	-4.3	35	0.305
56-44.5689-108.9533-2-15-					0-	W00358	14460	353	3833	53	-8	4.0	-6.2	-174	-1	-1	9.4	2916	41	-3.0	61	0.309
56-44.5778-108.9528-2-15-					0-	W00359	19810	431	5019	77	-13	5.9	-8.6	-226	-1	-1	9.7	3155	74	-4.7	-100	0.361
56-44.5500-108.9556-2-12-					0-	W00360	8984	234	4625	-21	-9	4.3	-6.9	-161	-1	-1	6.2	2614	44	-3.4	41	0.355
56-44.6761-108.9022-2-15-					0-	W00361	20840	488	6735	-26	-10	7.8	-6.8	-211	-1	-1	13.1	4004	77	-3.5	87	0.260
56-44.6606-108.9150-2-15-					0-	W00362	16600	828	5504	-28	-11	7.7	13.8	-259	-1	-1	15.4	4688	102	6.8	36	0.299
56-44.6511-108.9256-2-15-					0-	W00363	16320	911	5104	-29	-12	8.0	-9.3	-261	-1	-1	21.3	6604	148	8.7	58	0.254
56-44.6850-108.8417-2-15-					0-	W00364	19530	379	4572	-20	-9	4.3	-7.2	-195	-1	-1	8.1	2494	46	-3.6	61	0.358
56-44.6678-108.8317-2-15-					0-	W00365	13330	344	3976	-19	-8	4.2	-6.4	-170	-1	-1	11.5	3458	38	-2.7	32	0.322
56-44.6639-108.8372-2-15-					0-	W00366	18530	466	4384	-26	-10	5.4	-7.7	-211	1		9.0	2937	53	-3.8	72	0.378
56-44.7289-108.7606-2-15-					0-	W00368	20710	410	10310	65	-13	8.3	-8.4	342	-1	-1	8.8	3080	92	11.1	-96	0.330
56-44.7100-108.7500-2-15-					0-	W00370	28050	443	8390	77	-16	11.0	-9.9	393	-1	-1	11.4	3751	100	-6.1	128	0.281
56-44.6811-108.7939-2-15-					0-	W00374	12950	462	3623	47	-8	4.5	-5.3	-191	-1	-1	12.3	3057	46	-2.8	32	0.293
56-44.6717-108.7753-2-15-					0-	W00375	14130	560	4309	48	-9	5.0	-6.7	-222	-1	-1	8.5	2419	62	-3.0	25	0.329
56-44.4828-108.5536-2-15-					0-	W00376	17890	336	4572	61	-13	7.4	-8.6	-187	-1	-1	9.5	3379	93	7.5	-95	0.347
56-44.4839-108.5528-2-15-					0-	W00377	14400	309	4044	72	-12	7.2	-8.4	-198	-1	-1	8.5	2993	82	7.0	66	0.353
56-44.4681-108.5319-2-15-					0-	W00378	18870	277	5739	-22	-9	5.3	-6.4	-172	-1	-1	8.3	2679	65	-3.2	78	0.337
56-44.4669-108.5317-2-12-					0-	W00379	11990	342	4219	-19	-8	3.9	-7.5	-160	-1	-1	15.9	3803	50	6.3	60	0.277

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.4592-108.5394-2-15-						0-W00391-08/15/75-13-	25-								12-1-1-4-1-	-1-	-	-4-2-4-2-	-1-	-	-	-	-								3.50
56-44.4603-108.5764-2-15-						0-W00392-08/15/75-13-	26-								13-1-1-4-1-	-1-	-	-4-2-1-3-	-1-	-	-	-	-								2.50
56-44.4614-108.5681-2-15-						0-W00393-08/15/75-13-	26-								16-1-1-4-1-	-1-	-	-4-2-2-3-	-1-	-	-	-	-								2.70
56-44.4583-108.6078-2-15-						0-W00394-08/15/75-13-	26-								11-1-1-4-1-	-1-	-	-4-2-2-3-	-1-	-	-	-	-								2.90
56-44.4572-108.6183-2-15-						0-W00395-08/15/75-14-	26-								15-1-1-	-	-	-4-3-1-3-	-1-	-	-	-	-								2.90
56-44.4325-108.5206-2-15-						0-W00396-08/15/75-14-	26-								-1-4-5-1-	-1-	-	-4-2-1-3-	-1-	-	-	-	-								2.90
56-44.4644-108.6186-2-15-						0-W00397-08/15/75-14-	27-								16-1-4-5-4-	-1-	-	-4-3-2-3-	-1-	-	-	-	-								3.00
56-44.4653-108.6358-2-15-						0-W00398-08/15/75-15-	27-								12-1-1-5-1-	-1-	-	-4-2-2-3-	-1-	-	-	-	-								2.90
56-44.4639-108.6389-2-15-						0-W00399-08/15/75-16-	27-								10-1-4-5-1-	-1-	-	-4-2-1-2-	-1-	-	-	-	-								3.50
56-44.4803-108.6731-2-15-						0-W00390-08/15/75-16-	27-								18-1-4-5-4-	-1-	-	-4-2-1-2-	-1-	-	-	-	-								3.20
56-44.4747-108.6875-2-15-						0-W00391-08/15/75-16-	27-								10-1-1-5-1-	-1-	-	-4-2-3-2-	-1-	-	-	-	-								3.10
56-44.4561-108.7253-2-15-						0-W00392-08/15/75-17-	25-								9-1-1-5-1-	-	-	-4-2-2-2-	-1-	-	-	-	-								2.70
56-44.4547-108.7256-2-15-						0-W00393-08/15/75-17-	25-								7-1-1-4-1-	-1-	-	-4-2-2-2-	-1-	-	-	-	-								1.90
56-44.3583-108.7164-2-15-						0-W00394-08/15/75-13-	29-								9-1-4-4-6-	-1-	-	-4-3-1-1-	-1-	-	-	-	-								5.20
56-44.3731-108.7486-2-15-						0-W00395-08/15/75-13-	30-								12-1-4-4-4-	-1-	-	-4-3-3-1-	-1-	-	-	-	-								2.90
56-44.3369-108.6864-2-15-						0-W00396-08/15/75-14-	31-								11-1-1-4-1-	-1-	-	-4-3-4-1-	-1-	-	-	-	-								3.00
56-44.3242-108.6772-2-15-						0-W00397-08/15/75-14-	32-								12-1-4-4-4-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.70
56-44.3256-108.6647-2-15-						0-W00398-08/15/75-14-	32-								11-1-4-4-3-	-1-	-	-4-2-3-2-	-1-	-	-	-	-								3.60
56-44.2906-108.6672-2-15-						0-W00399-08/15/75-14-	32-								12-1-4-4-1-	-1-	-	-4-2-4-1-	-1-	-	-	-	-								3.10
56-44.3003-108.6731-2-15-						0-W00400-08/15/75-15-	32-								12-1-4-4-1-	-1-	-	-4-3-3-2-	-1-	-	-	-	-								3.60
56-44.3236-108.6939-2-15-						0-W00401-08/15/75-15-	33-								11-1-4-4-1-	-1-	-	-4-3-2-1-	-1-	-	-	-	-								2.50
56-44.3322-108.6406-2-15-						0-W00402-08/15/75-17-	31-								13-1-4-4-1-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.30
56-44.3328-108.6394-2-15-						0-W00403-08/15/75-17-	31-								10-1-4-4-1-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.30
56-44.3911-108.5608-2-15-						0-W00404-08/15/75-19-	25-								7-1-4-4-1-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.30
56-44.3972-108.5028-2-15-						0-W00408-08/15/75-19-	24-		-C-	-					11-1-4-5-4-	-1-	-	-4-3-2-1-	-1-	-	-	-	-								3.10
56-44.4169-108.5578-2-15-						0-W00409-08/15/75-20-	22-		-	-					10-1-4-5-6-	-1-	-	-4-3-3-1-	-1-	-	-	-	-								2.90
56-44.4567-108.6261-2-15-						0-W00410-08/17/75-14-	30-		-	-					9-1-4-5-4-	-1-	-	-4-3-1-1-	-1-	-	-	-	-								2.90
56-44.4517-108.6486-2-15-						0-W00411-08/17/75-14-	30-		-	-					10-1-4-3-6-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.00
56-44.4478-108.6694-2-15-						0-W00412-08/17/75-15-	31-		-	-					11-1-4-4-6-	-1-	-	-4-3-1-1-	-1-	-	-	-	-								2.40
56-44.4314-108.6842-2-15-						0-W00413-08/15/75-19-	30-		-	-					10-1-4-3-1-	-1-	-	-4-2-1-2-	-1-	-	-	-	-								2.50
56-44.3761-108.5933-2-15-						0-W00414-08/20/75-10-	30-		-	-					15-1-4-4-4-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.50
56-44.3758-108.6097-2-15-						0-W00415-08/20/75-11-	30-		-	-					15-1-4-4-1-	-1-	-	-4-1-4-1-	-1-	-	-	-	-								4.60
56-44.3736-108.6114-2-15-						0-W00416-08/20/75-11-	30-		-	-					15-1-4-4-6-	-1-	-	-4-1-4-1-	-1-	-	-	-	-								2.30
56-44.3617-108.6100-2-15-						0-W00417-08/20/75-11-	31-		-	-					9-1-4-4-1-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								2.40
56-44.3619-108.6075-2-15-						0-W00418-08/20/75-11-	31-		-	-					11-1-4-4-1-	-1-	-	-4-2-4-1-	-1-	-	-	-	-								4.00
56-44.3492-108.6144-2-15-						0-W00419-08/20/75-11-	32-		-	-					11-1-4-4-1-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								1.90
56-44.3411-108.6306-2-15-						0-W00420-08/20/76-		-	32-	-					12-1-4-5-1-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.00
56-44.3833-108.5556-2-15-						0-W00421-08/20/75-12-	31-		-	-					12-1-4-5-6-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.00
56-44.3703-108.5372-2-15-						0-W00422-08/20/75-12-	32-		-	-					9-1-4-4-1-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.60
56-44.3636-108.5483-2-15-						0-W00423-08/20/75-12-	32-		-	-					15-1-1-4-1-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.60
56-44.3606-108.5244-2-15-						0-W00424-08/20/75-13-	28-		-	-					15-1-4-4-6-	-1-	-	-4-1-3-1-	-1-	-	-	-	-								3.40
56-44.3569-108.5161-2-15-						0-W00425-08/20/75-13-	29-		-C-	-					21-1-9-5-6-	-1-	-	-4-1-4-1-	-1-	-	-	-	-								3.90
56-44.3556-108.5072-2-15-						0-W00426-08/20/75-13-	29-		-C-	-					15-1-9-5-6-	-1-	-	-4-1-3-1-	-1-	-	-	-	-								3.70
56-44.3439-108.5078-2-15-						0-W00427-08/20/75-14-	29-		-	-					12-1-4-5-6-	-1-	-	-4-1-4-1-	-1-	-	-	-	-								3.40
56-44.3375-108.4981-2-15-						0-W00428-08/20/75-15-	30-		-	-					11-1-7-5-6-	-1-	-	-4-1-4-1-	-1-	-	-	-	-								3.30
56-44.3411-108.5017-2-15-						0-W00429-08/20/75-15-	31-		-	-					12-1-4-4-1-	-1-	-	-4-2-3-1-	-1-	-	-	-	-								3.60
56-44.3472-108.4725-2-15-						0-W00430-08/20/75-16-	29-		-	-					11-1-4-	-	-	-4-2-4-1-	-1-	-	-	-	-								3.60
56-44.3411-108.4717-2-15-						0-W00431-08/20/75-17-	31-		-	-					6-1-7-5-1-	-1-	-	-4-1-5-1-	-1-	-	-	-	-								4.90
56-44.0694-108.7347-2-15-						0-W00432-08/15/75-13-	25-		-	-					10-1-7-3-6-	-1-	-	-3-2-3-2-	-1-	-	-	-	-								2.80
56-44.0555-108.7161-2-15-						0-W00433-08/15/75-13-	25-		-	-					5-1-6-5-6-	-1-	-	-4-2-3-2-	-1-	-	-	-	-								2.90
56-44.0486-108.7161-2-15-						0-W00434-08/15/75-14-	24-		-	-					15-1-6-5-6-	-1-	-	-3-3-3-3-	-1-	-	-	-	-								2.90

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.4592-108.5394-2-15-						0-W00381	-5	-5	-5	15	-20	-15	7	-10	-15	2	22
56-44.4603-108.5764-2-15-						0-W00382	-5	-5	-5	19	-20	-15	9	-10	-15	2	26
56-44.4514-108.5681-2-15-						0-W00383	-5	-5	-5	21	-20	23	15	-10	-15	2	25
56-44.4583-108.6078-2-15-						0-W00384	-5	-5	-5	22	-20	22	8	-10	-15	2	23
56-44.4572-108.6183-2-15-						0-W00385	-5	-5	-5	20	-20	15	14	-10	19	2	27
56-44.4325-108.6206-2-15-						0-W00386	-5	-5	-5	16	-20	16	12	-10	-15	2	28
56-44.4644-108.6186-2-15-						0-W00387	-5	-5	-5	15	-20	15	9	-10	-15	2	47
56-44.4653-108.6358-2-15-						0-W00388	-5	-5	-5	26	-20	17	12	-10	-15	2	32
56-44.4639-108.6389-2-15-						0-W00389	-5	-5	-5	19	-20	52	10	15	-15	3	53
56-44.4803-108.6731-2-15-						0-W00390	-5	-5	5	15	-20	16	22	-10	-15	3	41
56-44.4747-108.6875-2-15-						0-W00391	-5	-5	-5	23	-20	-15	15	-10	-15	2	30
56-44.4561-108.7253-2-15-						0-W00392	-5	-5	-5	29	-20	-15	6	-10	-15	2	24
56-44.4547-108.7256-2-15-						0-W00393	-5	-5	-5	19	-20	-15	12	-10	-15	1	14
56-44.3583-108.7164-2-15-						0-W00394	-5	-5	-5	13	-20	28	12	-10	-15	2	18
56-44.3731-108.7486-2-15-						0-W00395	-5	-5	-5	17	-20	-15	19	-10	21	2	27
56-44.3369-108.6964-2-15-						0-W00396	-5	-5	-5	31	-20	31	10	-10	16	2	22
56-44.3242-108.6772-2-15-						0-W00397	-5	-5	-5	26	-20	-15	-5	-10	-15	1	16
56-44.3256-108.6647-2-15-						0-W00398	-5	-5	-5	15	-20	-15	6	-10	-15	1	16
56-44.2906-108.6672-2-15-						0-W00399	-5	-5	-5	13	-20	-15	7	10	-15	1	18
56-44.3003-108.6731-2-15-						0-W00400	-5	-5	-5	16	-20	-15	7	-10	-15	1	20
56-44.3236-108.6939-2-15-						0-W00401	-5	-5	-5	19	-20	-15	-5	-10	-15	1	14
56-44.3322-108.6406-2-15-						0-W00402	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	15
56-44.3328-108.6394-2-15-						0-W00403	-5	5	-5	12	-20	-15	-5	-10	-15	1	13
56-44.3911-108.5608-2-15-						0-W00406	-5	-5	-5	10	-20	-15	-5	-10	-15	2	13
56-44.3972-108.5028-2-15-						0-W00408	-5	-5	-5	23	-20	-15	16	-10	-15	2	34
56-44.4169-108.5578-2-15-						0-W00409	-5	7	-5	23	-20	18	11	-10	-15	2	29
56-44.4567-108.6261-2-15-						0-W00410	-5	-5	-5	19	-20	19	8	-10	-15	2	29
56-44.4517-108.6486-2-15-						0-W00411	-5	-5	-5	19	-20	16	7	-10	-15	1	25
56-44.4478-108.6694-2-15-						0-W00412	-5	-5	-5	13	-20	-15	-5	-10	-15	1	14
56-44.4314-108.6842-2-15-						0-W00413	-5	-5	-5	11	-20	-15	5	-10	-15	1	11
56-44.3761-108.5933-2-15-						0-W00414	-5	-5	-5	18	-20	-15	6	-10	-15	2	25
56-44.3758-108.6097-2-15-						0-W00415	-5	-5	-5	-10	-20	-15	7	-10	-15	1	12
56-44.3736-108.6114-2-15-						0-W00416	-5	-5	-5	14	-20	-15	7	-10	-15	2	21
56-44.3617-108.6100-2-15-						0-W00417	-5	-5	-5	15	-20	-15	6	-10	-15	-1	15
56-44.3619-108.6075-2-15-						0-W00418	-5	-5	-5	-10	-20	-15	6	-10	-15	1	13
56-44.3492-108.6144-2-15-						0-W00419	-5	-5	-5	12	-20	-15	-5	-10	-15	-1	12
56-44.3411-108.6306-2-15-						0-W00420	-5	-5	-5	13	-20	-15	9	-10	-15	1	16
56-44.3833-108.5556-2-15-						0-W00421	-5	-5	-5	11	-20	-15	13	-10	-15	2	23
56-44.3703-108.5372-2-15-						0-W00422	-5	-5	-5	17	-20	-15	-5	-10	-15	2	27
56-44.3636-108.5483-2-15-						0-W00423	-5	-5	-5	22	-20	-15	7	-10	-15	2	23
56-44.3606-108.5244-2-15-						0-W00424	-5	-5	-5	26	-20	21	8	-10	-15	2	22
56-44.3569-108.5161-2-15-						0-W00425	-5	-5	-5	27	-20	25	18	-10	-15	2	30
56-44.3556-108.5072-2-15-						0-W00426	-5	-5	-5	29	-20	27	9	-10	-15	2	29
56-44.3439-108.5078-2-15-						0-W00427	-5	-5	-5	26	-20	32	10	-10	-15	2	26
56-44.3375-108.4981-2-15-						0-W00428	-5	-5	-5	25	-20	-15	13	-10	-15	2	18
56-44.3411-108.5017-2-15-						0-W00429	-5	5	-5	23	-20	22	8	-10	-15	2	19
56-44.3472-108.4725-2-15-						0-W00430	-5	-5	-5	13	-20	17	5	-10	-15	2	30
56-44.3411-108.4717-2-15-						0-W00431	-5	-5	-5	14	-20	15	8	-10	-15	2	26
56-44.0694-108.7347-2-15-						0-W00432	-5	5	-5	13	-20	21	23	-10	-15	2	50
56-44.0556-108.7161-2-15-						0-W00433	-5	-5	-5	21	-20	-15	30	-10	-15	2	40
56-44.0486-108.7161-2-15-						0-W00434	-5	-5	-5	31	-20	28	10	-10	15	2	37

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB. SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)													
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.4592-	108.5394-	2-	15-	0-	W00381	40100	-0.43	530	17520	67	-46	7.4	57	3.3	5	1.5	16190	19.5	14080	-97	0.6
56-	44.4603-	108.5764-	2-	15-	0-	W00382	38010	-0.35	609	13620	53	-42	7.7	47	3.2	4	1.4	14700	9.4	13720	-85	0.3
56-	44.4614-	108.5681-	2-	15-	0-	W00383	42140	-0.39	537	14610	47	-52	6.4	42	2.5	3	1.2	13770	8.4	13270	-77	0.6
56-	44.4583-	108.6078-	2-	15-	0-	W00384	35860	-0.43	517	21860	51	-61	7.4	50	3.0	4	1.3	14320	13.1	13000	-92	0.5
56-	44.4572-	108.6183-	2-	15-	0-	W00385	44750	-0.42	635	11520	70	-57	8.8	70	3.8	4	1.7	19940	15.5	15540	-96	0.5
56-	44.4325-	108.5206-	2-	15-	0-	W00386	39050	-0.33	479	19570	50	-46	7.3	47	2.9	4	1.2	14550	12.3	13700	-79	0.3
56-	44.4644-	108.6186-	2-	15-	0-	W00387	43310	-0.43	571	23080	57	1044	7.7	45	3.5	4	1.3	15350	11.0	15060	-78	0.4
56-	44.4653-	108.6358-	2-	15-	0-	W00388	48220	-0.43	603	15090	62	-54	9.5	60	4.5	4	1.6	21630	12.8	16520	-89	0.6
56-	44.4639-	108.6389-	2-	15-	0-	W00389	67960	-0.57	469	23940	77	-59	12.0	63	7.8	6	1.7	27770	5.7	21030	-136	0.6
56-	44.4803-	108.6731-	2-	15-	0-	W00390	56020	-0.51	458	19080	61	-55	9.3	49	4.1	5	1.4	19720	5.1	17330	-89	0.4
56-	44.4747-	108.6875-	2-	15-	0-	W00391	46570		594	23650		72				5				12970		
56-	44.4561-	108.7253-	2-	15-	0-	W00392	32350	-0.04	516	28490	42	-82	4.6	55	-1.1	5	0.9	11420	11.7	12760	20	0.3
56-	44.4547-	108.7256-	2-	15-	0-	W00393	21760	-0.04	552	23750	40	-44	3.6	35	1.4	3	0.9	8631	5.4	9782	16	0.3
56-	44.3583-	108.7164-	2-	15-	0-	W00394	37410	-0.07	593	10410	169	-59	11.0	142	-1.7	6	2.2	36830	63.2	12650	81	0.8
56-	44.3731-	108.7486-	2-	15-	0-	W00395	38810	-0.14	480	15680	65	-66	5.8	58	2.6	5	1.1	16410	16.0	13470	45	0.3
56-	44.3369-	108.6864-	2-	15-	0-	W00396	33510	-0.04	511	24950	52	-60	4.3	51	1.6	5	1.1	12750	15.3	12360	24	0.3
56-	44.3242-	108.6772-	2-	15-	0-	W00397	21840	-0.05	520	21080	86	-45	3.2	51	-1.0	6	1.3	7893	26.3	10770	39	0.5
56-	44.3256-	108.6647-	2-	15-	0-	W00398	23250	-0.05	531	20930	97	-45	3.9	66	2.1	5	1.5	11060	27.4	9696	51	0.6
56-	44.2906-	108.6672-	2-	15-	0-	W00399	23540	-0.13	506	17890	62	-51	3.0	49	-0.9	5	1.0	8044	18.8	10050	39	0.4
56-	44.3003-	108.6731-	2-	15-	0-	W00400	29430	-0.05	890	32130	67	-66	4.4	75	-1.2	5	0.7	13880	18.0	11310	37	0.4
56-	44.3236-	108.6939-	2-	15-	0-	W00401	19950	-0.04	430	27740	42	-47	3.8	38	-1.0	4	0.8	7974	13.1	8678	17	0.3
56-	44.3322-	108.6406-	2-	15-	0-	W00402	21310	-0.05	455	17730	66	-45	4.8	62	-1.2	4	1.3	9562	25.4	11780	33	0.6
56-	44.3328-	108.6394-	2-	15-	0-	W00403	17440	-0.13	450	15370	44	-45	2.6	37	-0.8	4	0.9	6160	16.8	9621	-19	0.3
56-	44.3911-	108.5608-	2-	15-	0-	W00404	23460	-0.04	722	15330	49	-48	3.6	52	1.8	5	0.8	10120	19.7	10760	27	0.4
56-	44.3972-	108.5028-	2-	15-	0-	W00409	44630	-0.06	606	18740	59	345	5.2	52	3.2	4	1.1	15040	9.8	15160	30	0.3
56-	44.4169-	108.5578-	2-	15-	0-	W00409	51550	-0.35	565	47560	65	-69	12.4	84	2.9	4	1.6	23930	10.9	14410	-70	-0.1
56-	44.4567-	108.6261-	2-	15-	0-	W00410	45130	-0.33	522	23090	57	-50	8.1	47	3.2	4	1.5	17230	9.5	14330	-65	0.3
56-	44.4517-	108.6486-	2-	15-	0-	W00411	32870	-0.32	849	35760	47	-69	6.4	33	2.7	4	1.3	11740	8.7	10540	-62	0.2
56-	44.4478-	108.6694-	2-	15-	0-	W00412	22450	-0.30	423	21850	60	-43	6.5	49	2.1	3	1.3	12750	14.6	10040	-59	0.3
56-	44.4314-	108.6842-	2-	15-	0-	W00413	20890	-0.24	668	28040	45	-42	5.1	38	-0.8	3	1.4	8913	14.0	8027	-56	0.4
56-	44.3761-	108.5933-	2-	15-	0-	W00414	36020	-0.41	658	21630	73	-57	9.8	70	3.8	5	1.8	19860	19.1	13510	-72	0.5
56-	44.3758-	108.6097-	2-	15-	0-	W00415	21420	-0.26	913	22700	119	-40	4.9	67	1.9	5	1.7	10480	37.7	9780	-50	0.6
56-	44.3736-	108.6114-	2-	15-	0-	W00416	32650	-0.28	460	17960	41	-45	6.4	41	3.0	4	1.3	13870	4.4	13130	-59	0.2
56-	44.3617-	108.6100-	2-	15-	0-	W00417	21430	-0.27	504	21250	41	103	3.2	30	1.6	3	1.0	6217	11.9	9215	-47	0.2
56-	44.3619-	108.6075-	2-	15-	0-	W00418	19740	-0.32	452	20320	106	50	6.1	67	1.5	5	1.7	11780	32.5	9315	-70	0.6
56-	44.3492-	108.6144-	2-	15-	0-	W00419	19560	-0.21	399	23830	41	-38	3.9	27	1.0	3	1.1	6623	8.5	8700	-47	0.2
56-	44.3411-	108.6306-	2-	15-	0-	W00420	27810	-0.24	409	19180	52	-41	4.8	40	1.8	4	1.2	8804	18.6	13240	-52	0.4
56-	44.3833-	108.5556-	2-	15-	0-	W00421	38430	-0.32	493	15750	50	-46	5.7	39	2.9	4	1.2	12640	11.2	12720	-54	0.4
56-	44.3703-	108.5372-	2-	15-	0-	W00422	31440	-0.38	667	18760	71	-48	7.2	67	4.0	5	1.6	16850	25.2	10540	-56	0.6
56-	44.3636-	108.5483-	2-	15-	0-	W00423	35670	-0.31	518	12750	71	-37	6.4	55	2.3	4	1.5	15610	27.5	11270	-60	0.6
56-	44.3606-	108.5244-	2-	15-	0-	W00424	41730	-0.34	676	6237	53	-38	5.0	36	3.6	4	1.3	15470	13.8	12460	-48	0.3
56-	44.3569-	108.5161-	2-	15-	0-	W00425	54080	-0.49	977	7625	91	-45	11.8	81	7.4	5	2.1	27990	17.0	14220	-90	0.5
56-	44.3556-	108.5072-	2-	15-	0-	W00426	43930	-0.04	998	5985	54	-35	8.9	47	3.9	5	1.1	19270	12.9	12400	28	0.3
56-	44.3439-	108.5078-	2-	15-	0-	W00427	37520	-0.05	911	7041	60	-35	7.0	39	3.8	4	1.5	16950	13.5	12420	25	0.4
56-	44.3375-	108.4981-	2-	15-	0-	W00428	33240	-0.05	537	10600	62	-42	7.6	47	3.7	5	1.6	15230	18.1	11530	30	0.4
56-	44.3411-	108.5017-	2-	15-	0-	W00429	29050	-0.03	548	15010	64	-42	5.3	59	2.4	5	1.4	12650	22.2	10450	28	0.4
56-	44.3472-	108.4725-	2-	15-	0-	W00430	38820	-0.04	521	16390	72	-40	6.6	52	2.4	5	1.4	13960	18.2	12750	27	0.5
56-	44.3411-	108.4717-	2-	15-	0-	W00431	39070	-0.13	916	23220	110	89	6.6	66	3.0	6	1.6	14920	30.6	13560	49	0.6
56-	44.0694-	108.7347-	2-	15-	0-	W00432	36700	-0.16	534	43290	62	538	7.6	45	6.0	3	1.4	17690	10.1	13540	43	0.4
56-	44.0556-	108.7161-	2-	15-	0-	W00433	55110	-0.14	478	19910	69	-52	7.5	49	5.7	4	1.5	17580	5.7	17540	48	0.3
56-	44.0496-	108.7161-	2-	15-	0-	W00434	45890	-0.12	499	24100	55	-55	6.4	46	4.0	5	1.4	14370	7.9	15890	35	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	44.4592-	108.5394-	2-	15-	0-	W00381	14710	269	3745	-24	-10	5.8	-3.5	-169	-1	-1	10.2	3299	67	-3.7	66	0.343
56-	44.4603-	108.5764-	2-	15-	0-	W00382	13933	301	3353	46	-8	5.4	-5.5	-161	-1	-1	7.9	2277	57	-3.0	67	0.316
56-	44.4614-	108.5981-	2-	15-	0-	W00383	13800	338	3333	42	-9	5.2	-6.6	-166	-1	-1	6.4	2901	67	-3.3	68	0.422
56-	44.4583-	108.6078-	2-	15-	0-	W00384	15330	322	4997	-27	-10	5.2	-7.3	-173	-1	-1	9.5	2464	56	-3.6	30	0.305
56-	44.4572-	108.6183-	2-	15-	0-	W00385	17790	383	5092	63	-10	7.1	-5.4	-205	-1	-1	10.7	3068	64	-3.3	89	0.271
56-	44.4325-	108.6206-	2-	15-	0-	W00386	16650	351	4237	-21	-9	5.5	-5.8	-172	-1	-1	8.7	2810	54	6.3	53	0.333
56-	44.4644-	108.6186-	2-	15-	0-	W00387	22550	316	11270	-23	-10	5.5	-7.2	-201	-1	-1	8.7	3426	70	-4.8	85	0.345
56-	44.4653-	108.6358-	2-	15-	0-	W00388	18030	383	4799	61	-10	7.6	-6.6	-209	-1	-1	11.7	2879	62	8.0	73	0.248
56-	44.4639-	108.6389-	2-	15-	0-	W00389	24740	456	3465	-37	-14	10.0	-9.3	-256	-1	-1	13.9	4272	87	-4.9	128	0.254
56-	44.4303-	108.6731-	2-	15-	0-	W00390	20480	379	3242	-27	-12	7.0	-8.1	-201	-1	-1	8.6	3672	76	6.9	68	0.372
56-	44.4747-	108.6875-	2-	15-	0-	W00391	20220	424	5000					-195				2398	65			
56-	44.4561-	108.7253-	2-	15-	0-	W00392	20660	331	9179	34	-1	4.2	4.5	-208	-1	-1	8.2	2378	40	3.2	37	0.329
56-	44.4547-	108.7256-	2-	15-	0-	W00393	13520	272	2724	-16	-1	2.9	3.6	-171	-1	-1	5.4	1290	27	1.9	38	0.352
56-	44.3583-	108.7164-	2-	15-	0-	W00394	12010	476	5877	56	-2	9.8	10.4	-215	-1	-1	27.8	7115	92	7.5	46	0.187
56-	44.3731-	108.7485-	2-	15-	0-	W00395	15640	345	4309	52	-3	5.6	6.3	-206	-1		9.5	3142	51	-1.8	50	0.305
56-	44.3369-	108.6964-	2-	15-	0-	W00396	15990	331	4194	-19	-1	4.5	4.4	-181	-1	-1	9.3	2449	37	2.8	40	0.323
56-	44.3242-	108.6772-	2-	15-	0-	W00397	13570	281	3110	-16	-1	3.3	7.6	-181	-1	-1	23.5	2221	23	3.3	41	0.157
56-	44.3256-	108.6647-	2-	15-	0-	W00398	13870	332	2336	-20	-1	4.6	7.7	-188	-1	-1	27.7	2068	32	4.3	-21	0.130
56-	44.2906-	108.6572-	2-	15-	0-	W00399	14960	243	3493	-16	-3	3.3	5.6	-155	-1	-1	15.3	1974	24	4.1	-18	0.203
56-	44.3003-	108.5731-	2-	15-	0-	W00400	13820	490	3327	-19	-1	4.9	5.7	-221	-1	-1	17.4	2564	36	3.0		0.207
56-	44.3236-	108.6939-	2-	15-	0-	W00401	12820	391	2712	-16	-1	2.9	4.5	-207	-1	-1	8.1	1625	27	2.6	-13	0.309
56-	44.3322-	108.6406-	2-	15-	0-	W00402	12770	267	3429	-18	-1	4.1	6.3	-169	-1	-1	15.3	2437	26	4.9	39	0.216
56-	44.3328-	108.6394-	2-	15-	0-	W00403	12260	207	2935	-16	-3	2.4	5.0	-140	-1		9.0	2126	18	2.3	-30	0.367
56-	44.3911-	108.5608-	2-	15-	0-	W00404	11380	299	2212	29	-1	3.8	5.5	-162	-1	-1	10.9	2207	35	3.6	-28	0.303
56-	44.3972-	108.5028-	2-	15-	0-	W00408	15370	320	3513	-23	-1	5.4	5.4	-261	-1	-1	9.1	2988	65	3.3	-25	0.341
56-	44.4169-	108.5578-	2-	15-	0-	W00409	27620	407	8532	-28	-9	8.4	-4.7	-226	-1	-1	8.2	3127	89	-3.3	54	0.354
56-	44.4567-	108.6261-	2-	15-	0-	W00410	19210	390	4377	50	-7	6.3	-5.4	-192	-1	-1	8.5	2948	65	5.6	65	0.341
56-	44.4517-	108.6486-	2-	15-	0-	W00411	13530	1018	2938	-21	-7	4.4	5.3	-282	-1	-1	7.5	2289	46	-3.0	35	0.400
56-	44.4478-	108.6594-	2-	15-	0-	W00412	14640	324	3071	-20	-7	4.6	-5.0	-148	-1	-1	9.6	1571	30	-3.5	42	0.250
56-	44.4314-	108.6842-	2-	15-	0-	W00413	13390	436	2405	48	-6	3.4	-4.1	-192	-1		9.2	1977	26	-2.2	25	0.272
56-	44.3761-	108.5933-	2-	15-	0-	W00414	15050	494	3373	-29	-9	7.3	-6.3	-197	-1	-1	13.3	2564	56	7.0	88	0.263
56-	44.3758-	108.6097-	2-	15-	0-	W00415	11800	352	2795	42	-6	4.1	16.1	-168	-1	-1	36.7	2730	30	7.4	53	0.125
56-	44.3736-	108.6114-	2-	15-	0-	W00416	13110	474	3191	34	-7	5.0	-4.3	-195	-1	-1	7.3	1889	45	4.7	61	0.315
56-	44.3617-	108.6100-	2-	15-	0-	W00417	15330	331	2349	-15	-6	2.7	-4.6	-166	-1		6.5	1922	27	3.7	47	0.369
56-	44.3619-	108.6075-	2-	15-	0-	W00418	10340	382	2884	-20	-7	4.5	-6.4	-163	-1	1	30.8	1810	27	8.0	39	0.130
56-	44.3492-	108.6144-	2-	15-	0-	W00419	11980	320	2277	-15	-5	2.7	-3.5	-162			6.9	1170	18	-2.1	61	0.275
56-	44.3411-	108.6306-	2-	15-	0-	W00420	14190	309	3432	-17	-6	3.9	8.9	-159	-1	-1	10.5	2585	33	5.2	51	0.286
56-	44.3833-	108.5554-	2-	15-	0-	W00421	14110	269	2963	46	-7	4.6	-5.3	-150	-1	-1	7.1	2550	54	-3.9	49	0.423
56-	44.3703-	108.5372-	2-	15-	0-	W00422	11710	365	3096	-27	-9	5.2	-6.2	-155	-1	-1	13.7	2611	46	-4.1	49	0.263
56-	44.3636-	108.5483-	2-	15-	0-	W00423	14410	236	2315	53	-7	5.7	-5.0	-151	-1	-1	12.6	2858	53	-3.8	60	0.286
56-	44.3606-	108.5244-	2-	15-	0-	W00424	10200	220	2010	40	-7	5.4	-5.3	-134	-1	-1	8.7	2716	72	4.5	68	0.391
56-	44.3563-	108.5161-	2-	15-	0-	W00425	13530	201	2634	68	-11	10.3	17.7	-144	-1	-1	14.8	3215	89	-5.0	106	0.264
56-	44.3556-	108.5072-	2-	15-	0-	W00426	11070	297	2035	54	-1	6.3	4.6	-166	-1	-1	9.9	2790	79	2.7	55	0.374
56-	44.3439-	108.5078-	2-	15-	0-	W00427	9877	321	2137	52	-1	5.3	6.0	-162	-1	-1	9.0	2711	75	3.4	80	0.378
56-	44.3375-	108.4981-	2-	15-	0-	W00428	9633	258	2566	55	-1	5.8	5.4	-146	-1	-1	11.5	2936	49	4.8	-50	0.287
56-	44.3411-	108.5017-	2-	15-	0-	W00429	9864	265	2300	40	-1	4.7	5.2	-139	-1	-1	11.5	2318	37	3.9	29	0.313
56-	44.3472-	108.4725-	2-	15-	0-	W00430	14990	295	3565	46	-1	5.4	6.4	-157	-1	-1	11.2	3170	51	3.7	52	0.321
56-	44.3411-	108.4717-	2-	15-	0-	W00431	16160	429	5231	43	-3	5.7	10.4	-211	-1	-1	28.1	3337	50	6.6	50	0.174
56-	44.0694-	108.7347-	2-	15-	0-	W00432	29670	467	6417	59	-3	6.0	5.8	862	-1	-1	8.6	2127	54	3.7	63	0.326
56-	44.0556-	108.7161-	2-	15-	0-	W00433	21060	247	4151	57	-3	7.4	5.8	-156	-1	-1	9.6	3019	71	-1.7	86	0.302
56-	44.0486-	108.7161-	2-	15-	0-	W00434	21000	265	4070	47	-3	5.0	4.7	-159	-1	-1	8.7	2633	57	-1.5	86	0.333

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.0483-108.6833-2-15-						0-W00435-08/15/76-15-			27-		-	-	-	-		14-1-6-5-6-	-1-	-	-3-2-3-2-	-1-	-	-	-	-									3.20
56-44.1236-108.7317-2-15-						0-W00436-08/15/76-17-			28-		-	-	-	-		12-1-7-4-6-	-1-	-	-3-2-3-2-	-1-	-	-	-	-									3.20
56-44.1236-108.7294-2-15-						0-W00437-08/15/76-17-			27-		-	-	-	-		10-1-7-4-6-	-1-	-	-3-2-3-2-	-	-1-	-	-	-									3.30
56-44.1233-108.7339-2-15-						0-W00438-08/15/76-17-			27-		-	-	-	-		17-1-7-4-6-	-1-	-	-3-2-3-2-	-1-	1-	-	-	-									2.90
56-44.0456-108.7100-2-15-						0-W00439-08/15/76-18-			27-		-	-	-	-		15-1-6-5-6-	-1-	-	-3-2-3-1-	-1-	-	-	-	-									3.40
56-44.1111-108.8986-2-15-						0-W00441-08/24/76-10-			22-		-	-	-	-		12-1-7-4-6-	-	-	-2-4-2-3-1-	-1-	-	-	-	-									2.40
56-44.1000-108.9042-2-15-						0-W00442-08/24/76-10-			22-		-	-	-	-		16-1-7-4-6-	-	-	-2-4-2-3-1-	-1-	-	-	-	-									2.50
56-44.0931-108.9014-2-12-						0-W00443-08/24/76-11-			24-14.0-		-	-	6.9-	2000-		12-1-7-5-6-3-3-1-2-4-2-3-1-				-1-	-	-	-	-									2.40
56-44.0792-108.9000-2-15-						0-W00444-08/24/76-11-			24-		-	-	-	-		14-1-7-4-6-	-	-	-2-4-2-3-1-	-1-	-	-	-	-									2.90
56-44.0736-108.8917-2-15-						0-W00445-08/24/76-11-			24-		-	-	-	-		12-1-7-4-6-	-	-	-2-4-2-3-1-	-1-	-	-	-	-									3.00
56-44.0569-108.9028-2-15-						0-W00446-08/24/76-11-			24-		-	-	-	-		12-1-7-4-6-	-	-	-2-4-2-3-1-	-1-	-	-	-	-									3.10
56-44.2764-108.8875-2-15-						0-W00447-08/18/76-11-			25-		-	-	-	-		11-1-7-4-6-	-	-	-2-3-3-2-2-	-1-	-	-	-	-									2.60
56-44.2861-108.8681-2-15-						0-W00448-08/18/76-11-			25-		-	-	-	-		9-1-7-4-6-	-	-	-2-3-3-2-2-	-1-	-	-	-	-									3.00
56-44.2839-108.8708-2-15-						0-W00449-08/18/76-11-			25-		-	-	-	-		11-	-	-4-6-	-	-	-2-3-3-2-2-	-1-	-	-	-	-									2.60
56-44.3019-108.9236-2-15-						0-W00450-08/18/76-11-			25-		-	-	-	-		9-1-7-4-6-	-	-	-2-3-3-3-2-	-1-	-	-	-	-									3.00
56-44.3028-108.9278-2-15-						0-W00451-08/18/76-11-			25-		-	-	-	-		6-1-7-4-6-	-	-	-2-3-2-2-2-	-1-	-	-	-	-									3.10
56-44.2958-108.9667-2-15-						0-W00452-08/18/76-11-			25-		-	-	-	-		12-1-7-4-6-	-	-	-2-3-3-3-2-	-1-	-	-	-	-									2.30
56-44.2519-108.9431-2-15-						0-W00453-08/18/76-11-			25-		-	-	-	-		12-1-7-4-6-	-	-	-2-3-3-2-2-	-1-	-	-	-	-									3.40
56-44.3517-108.9694-2-15-						0-W00454-08/18/76-12-			26-		-	-	-	-		14-1-7-4-6-	-	-	-2-3-3-3-2-	-1-	-	-	-	-									3.00
56-44.3833-108.9256-2-15-						0-W00455-08/18/76-12-			28-		-	-	-	-		11-1-7-4-6-	-	-	-2-3-3-2-2-	-1-	-	-	-	-									3.00
56-44.3847-108.9250-2-15-						0-W00456-08/18/76-12-			28-		-	-	-	-		9-1-7-4-6-	-	-	-2-3-3-2-2-	-1-	-	-	-	-									2.90
56-44.3986-108.9972-2-12-						0-W00457-08/18/76-12-			25-19.0-		-	-	6.9-	1200-		9-1-7-4-6-2-3-1-2-4-3-2-2-				-1-	-	-	-	-									3.60
56-44.5683-108.8250-2-15-						0-W00458-08/18/76-13-			26-	-0-	-	-	-	-		6-1-7-4-6-	-	-	-2-3-3-3-2-	-1-	-	-	-	-									2.70
56-44.5575-108.8403-2-15-						0-W00459-08/18/76-13-			26-	-0-	-	-	-	-		4-1-7-4-6-	-	-	-2-3-3-3-2-	-1-	-	-	-	-									1.80
56-44.5497-108.8439-2-15-						0-W00460-08/18/76-13-			26-	-	-	-	-	-		9-1-7-4-6-	-	-	-2-3-4-2-3-	-1-	-	-	-	-									3.00
56-44.5153-108.8317-2-15-						0-W00461-08/18/76-13-			26-	-	-	-	-	-		8-1-7-4-6-	-	-	-2-3-3-2-3-	-1-	-	-	-	-									3.40
56-44.5300-108.8106-2-15-						0-W00462-08/18/76-14-			26-	-0-	-	-	-	-		11-1-7-4-6-	-	-	-2-3-2-2-4-	-1-	-	-	-	-									3.30
56-44.5419-108.8000-2-15-						0-W00463-08/18/76-14-			27-	-0-	-	-	-	-		9-1-7-4-6-	-	-	-2-3-3-3-4-	-1-	-	-	-	-									2.90
56-44.5406-108.7664-2-11-						0-W00464-08/18/76-14-			27-12.0-		-	-	6.6-	400-		9-1-7-4-6-	-	-	-2-3-3-3-4-	-1-	-	-	-	-									3.20
56-44.5167-108.7575-2-15-						0-W00465-08/18/76-15-			24-		-	-	-	-		11-1-7-4-6-	-	-	-2-3-3-2-4-	-1-	-	-	-	-									2.70
56-44.4806-108.7708-2-15-						0-W00466-08/18/76-15-			20-		-	-	-	-		11-1-7-4-6-	-	-	-2-3-3-2-4-	-1-	-	-	-	-									2.60
56-44.4931-108.8222-2-15-						0-W00467-08/18/76-15-			20-		-	-	-	-		10-1-7-4-6-	-	-	-2-3-3-2-4-	-1-	-	-	-	-									2.70
56-44.4722-108.9875-2-12-						0-W00468-08/18/76-15-			20-16.0-		-	-	6.6-	410-		11-1-7-4-6-3-3-1-2-3-3-2-4-				-1-	-	-	-	-									3.10
56-44.4389-108.9875-2-15-						0-W00469-08/18/76-15-			20-		-	-	-	-		8-1-7-4-6-	-	-	-2-3-3-2-4-	-1-	-	-	-	-									3.30
56-44.4186-108.8667-2-15-						0-W00470-08/18/76-15-			24-		-	-	-	-		6-1-7-4-6-	-	-	-2-3-2-1-3-	-1-	-	-	-	-									2.70
56-44.4178-108.8622-2-15-						0-W00471-08/18/76-15-			24-		-	-	-	-		6-1-7-4-6-	-	-	-2-3-2-1-3-	-1-	-	-	-	-									2.60
56-44.4231-108.8292-2-15-						0-W00472-08/18/76-15-			23-		-	-	-	-		14-1-7-4-6-	-	-	-2-3-3-2-3-	-1-	-	-	-	-									2.70
56-44.3972-108.7944-2-15-						0-W00473-08/18/76-16-			24-		-	-	-	-		6-1-7-4-6-	-	-	-2-3-1-1-3-	-1-	-	-	-	-									2.50
56-44.3708-108.7708-2-15-						0-W00474-08/18/76-17-			24-		-	-	-	-		9-1-7-4-6-	-	-	-2-3-3-2-3-	-1-	-	-	-	-									3.10
56-44.3653-108.7792-2-15-						0-W00475-08/18/76-17-			25-		-	-	-	-		9-1-7-4-6-	-	-	-2-3-3-2-3-	-1-	-	-	-	-									2.80
56-44.3639-108.7944-2-15-						0-W00476-08/18/76-17-			25-		-	-	-	-		8-1-7-4-6-	-	-	-2-3-3-2-3-	-1-	-	-	-	-									3.00
56-44.3667-108.7958-2-12-						0-W00477-08/18/76-17-			25-20.0-		-	-	7.3-	35000-		11-1-7-4-6-2-2-1-2-3-3-2-4-				-1-	-	-	-	-									2.40
56-44.3333-108.7722-2-15-						0-W00478-08/18/76-17-			25-		-	-	-	-		9-1-7-4-6-	-	-	-2-3-3-2-3-	-1-	-	-	-	-									2.50
56-44.2958-108.7611-2-15-						0-W00479-08/18/76-18-			25-		-	-	-	-		6-1-7-4-6-	-	-	-2-3-3-2-3-	-1-	-	-	-	-									2.90
56-44.2742-108.7842-2-15-						0-W00480-08/18/76-18-			25-		-	-	-	-		9-1-7-4-6-	-	-	-2-3-3-2-3-	-1-	-	-	-	-									3.60
56-44.2511-108.8208-2-15-						0-W00481-08/18/76-19-			25-		-	-	-	-		19-1-7-4-6-	-	-	-2-3-3-2-3-	-1-	-	-	-	-									2.70
56-44.1181-108.9528-2-12-						0-W00482-08/24/76-11-			24-15.0-		-	-	6.6-	1200-		12-1-7-	-	-	-3-3-1-2-4-3-3-1-	-1-	-	-	-	-									2.40
56-44.0403-108.9708-2-12-						0-W00483-08/24/76-12-			26-20.0-		-	-	6.0-	150-		12-1-7-4-6-3-3-1-2-4-3-3-1-				-1-	-	-	-	-									2.90
56-44.0017-108.9403-2-15-						0-W00484-08/24/76-12-			26-		-	-	-	-		12-1-7-4-5-	-	-	-2-4-2-3-1-	-1-	-	-	-	-									2.60
56-44.0111-108.8819-2-12-						0-W00485-08/24/76-14-			30-19.0-		-	-	6.9-	600-		11-1-7-5-6-3-3-1-2-4-3-3-1-				-1-	-	-	-	-									2.80
56-44.0139-108.8764-2-15-						0-W00486-08/24/76-14-			30-		-	-	-	-		11-1-7-4-6-	-	-	-2-4-2-3-1-	-1-	-	-	-	-									2.60

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

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-	44.0483-	108.6833-	2-	15-	0-	W00435	-5	-5	-5	16	-20	-15	25	-10	-15	2	29
56-	44.1236-	108.7317-	2-	15-	0-	W00436	-5	-5	-5	23	-20	-15	12	-10	19	2	19
56-	44.1236-	108.7294-	2-	15-	0-	W00437	-5	-5	-5	13	-20	23	14	-10	-15	2	19
56-	44.1233-	108.7339-	2-	15-	0-	W00438	-5	-5	-5	14	-20	35	16	-10	-15	2	19
56-	44.0456-	108.7100-	2-	15-	0-	W00439	-5	-5	-5	27	-20	19	11	-10	-15	2	21
56-	44.1111-	108.8986-	2-	15-	0-	W00441	-5	-5	-5	19	-20	15	23	-10	-15	1	16
56-	44.1000-	108.9042-	2-	15-	0-	W00442	-5	-5	-5	19	-20	20	18	-10	-15	2	22
56-	44.0931-	108.9014-	2-	12-	0-	W00443	-5	-5	-5	18	-20	22	19	-10	-15	2	22
56-	44.0792-	108.9000-	2-	15-	0-	W00444	-5	-5	-5	20	-20	20	-5	-10	-15	2	19
56-	44.0736-	108.8917-	2-	15-	0-	W00445	-5	-5	-5	23	-20	32	20	-10	-15	2	32
56-	44.0569-	108.9028-	2-	15-	0-	W00446	-5	-5	-5	31	-20	35	15	-10	-15	2	37
56-	44.2764-	108.8875-	2-	15-	0-	W00447	-5	-5	-5	18	-20	-15	15	-10	-15	2	23
56-	44.2861-	108.8681-	2-	15-	0-	W00448	-5	-5	-5	24	-20	-15	7	-10	-15	2	15
56-	44.2839-	108.8703-	2-	15-	0-	W00449	-5	-5	-5	32	-20	38	19	-10	-15	2	25
56-	44.3019-	108.9236-	2-	15-	0-	W00450	-5	-5	5	30	-20	21	10	-10	-15	2	27
56-	44.3028-	108.9278-	2-	15-	0-	W00451	-5	-5	-5	32	-20	23	23	-10	-15	2	28
56-	44.2958-	108.9667-	2-	15-	0-	W00452	-5	-5	-5	22	-20	30	7	-10	22	2	13
56-	44.2519-	108.9431-	2-	15-	0-	W00453	-5	-5	-5	13	-20	16	16	-10	-15	2	23
56-	44.3517-	108.9694-	2-	15-	0-	W00454	-5	-5	-5	16	-20	-15	23	-10	-15	2	49
56-	44.3833-	108.9256-	2-	15-	0-	W00455	-5	6	-5	24	-20	15	13	-10	-15	2	69
56-	44.3847-	108.9250-	2-	15-	0-	W00456	-5	-5	-5	21	-20	29	14	-10	-15	2	74
56-	44.3986-	108.9972-	2-	12-	0-	W00457	-5	-5	-5	17	-20	-15	18	-10	-15	2	25
56-	44.5693-	108.8250-	2-	15-	0-	W00458	-5	-5	-5	18	-20	-15	7	-10	-15	2	23
56-	44.5575-	108.8403-	2-	15-	0-	W00459	-5	-5	-5	21	-20	-15	-5	-10	-15	1	16
56-	44.5497-	108.8439-	2-	15-	0-	W00460	-5	-5	-5	18	-20	-15	13	-10	-15	1	21
56-	44.5153-	108.8317-	2-	15-	0-	W00461	-5	-5	-5	36	-20	-15	8	-10	20	2	35
56-	44.5300-	108.8106-	2-	15-	0-	W00462	-5	-5	-5	24	-20	-15	15	-10	-15	2	54
56-	44.5419-	108.8000-	2-	15-	0-	W00463	-5	-5	6	24	-20	-15	15	-10	-15	2	30
56-	44.5406-	108.7664-	2-	11-	0-	W00464	-5	-5	-5	37	-20	31	27	-10	-15	3	47
56-	44.5167-	108.7575-	2-	15-	0-	W00465	-5	7	6	29	-20	25	15	-10	-15	3	52
56-	44.4806-	108.7708-	2-	15-	0-	W00466	-5	-5	-5	27	-20	33	18	-10	-15	2	38
56-	44.4931-	108.8222-	2-	15-	0-	W00467	-5	-5	-5	35	-20	26	27	-10	-15	2	36
56-	44.4722-	108.9875-	2-	12-	0-	W00468	-5	-5	-5	28	-20	41	25	-10	-15	2	50
56-	44.4389-	108.9875-	2-	15-	0-	W00469	-5	-5	-5	21	-20	16	15	-10	33	2	42
56-	44.4186-	108.8667-	2-	15-	0-	W00470	-5	-5	6	40	-20	27	33	-10	-15	3	69
56-	44.4178-	108.8522-	2-	15-	0-	W00471	-5	-5	-5	43	-20	45	17	-10	-15	3	63
56-	44.4231-	108.8292-	2-	15-	0-	W00472	-5	-5	-5	33	-20	21	16	-10	-15	3	55
56-	44.3972-	108.7944-	2-	15-	0-	W00473	-5	-5	-5	31	-20	21	12	-10	-15	2	39
56-	44.3708-	108.7708-	2-	15-	0-	W00474	-5	7	-5	13	-20	-15	12	13	-15	2	16
56-	44.3653-	108.7792-	2-	15-	0-	W00475	-5	-5	-5	19	-20	27	18	-10	-15	2	26
56-	44.3639-	108.7944-	2-	15-	0-	W00476	-5	-5	-5	30	-20	15	-5	12	22	2	27
56-	44.3667-	108.7958-	2-	12-	0-	W00477	-5	-5	-5	-10	-20	-15	16	-10	-15	2	32
56-	44.3333-	108.7722-	2-	15-	0-	W00478	-5	-5	-5	28	-20	26	16	-10	24	1	31
56-	44.2958-	108.7611-	2-	15-	0-	W00479	-5	-5	-5	20	-20	-15	6	-10	-15	2	34
56-	44.2742-	108.7842-	2-	15-	0-	W00480	-5	-5	-5	-10	-20	29	13	-10	-15	2	24
56-	44.2511-	108.8208-	2-	15-	0-	W00481	-5	-5	-5	13	-20	25	10	-10	-15	2	28
56-	44.1181-	108.9528-	2-	12-	0-	W00482	-5	-5	-5	20	-20	-15	7	-10	-15	1	19
56-	44.0403-	108.9708-	2-	12-	0-	W00483	-5	-5	-5	25	-20	-15	10	-10	-15	2	34
56-	44.0017-	108.9403-	2-	15-	0-	W00484	-5	-5	-5	25	-20	-15	8	-10	-15	2	33
56-	44.0111-	108.8819-	2-	12-	0-	W00485	-5	-5	-5	19	-20	-15	6	-10	-15	2	27
56-	44.0139-	108.8764-	2-	15-	0-	W00486	-5	-5	-5	16	-20	-15	6	-10	-15	2	18

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-44.0483-108.6833-2-15-						0-W00435	47260	-0.13	493	10030	73	-32	7.1	41	3.3	4	1.5	13030	13.5	12620	44	0.4
56-44.1236-108.7317-2-15-						0-W00436	40830	-0.15	672	10520	80	-46	9.0	56	3.3	5	1.8	19260	20.5	16390	49	0.5
56-44.1236-108.7294-2-15-						0-W00437	43300	-0.12	571	9419	75	87	6.9	44	3.7	5	1.5	14540	18.8	15520	43	0.6
56-44.1233-108.7339-2-15-						0-W00438	43980	-0.12	522	17950	61	-49	7.3	37	3.0	4	1.3	14280	14.5	13070	-12	0.4
56-44.0456-108.7100-2-15-						0-W00439	49160	-0.13	596	11380	74	-51	7.5	37	3.9	5	1.5	13220	15.1	15530	-12	0.4
56-44.1111-108.8986-2-15-						0-W00441	29270	-0.12	398	19200	55	75	7.8	41	3.6	3	1.2	13300	13.2	10530	-13	0.3
56-44.1000-108.9042-2-15-						0-W00442	34400	-0.10.	484	24090	50	-47	6.3	47	3.1	3	1.3	14550	8.4	12430	-10	0.3
56-44.0931-108.9014-2-12-						0-W00443	30010	-0.10	447	25140	39	116	6.7	30	2.6	4	1.0	11910	8.5	12330	33	0.2
56-44.0792-108.9000-2-15-						0-W00444	30420	-0.11	421	12830	59	-38	7.0	33	2.8	4	1.2	11230	16.0	11530	30	0.4
56-44.0736-108.8917-2-15-						0-W00445	41920	-0.15	402	27660	64	151	9.5	66	4.8	4	1.5	19640	12.1	14310	42	0.4
56-44.0569-108.9029-2-15-						0-W00446	39400	-0.12	420	31200	57	130	7.5	40	4.1	4	1.4	16500	10.0	15440	-14	0.3
56-44.2764-108.8875-2-15-						0-W00447	49130	-0.05	517	9962	83	-52	11.1	65	6.1	4	1.3	16600	9.5	13550	31	0.3
56-44.2861-108.8581-2-15-						0-W00448	34520	-0.04	491	6005	81	-44	5.8	55	2.6	4	1.6	13580	20.1	11190	36	0.5
56-44.2839-108.8708-2-15-						0-W00449	56110	-0.04	580	12090	65	-57	9.7	50	4.2	4	1.7	19330	9.3	15630	32	0.4
56-44.3019-108.9236-2-15-						0-W00450	62590	-0.06	609	17590	91	-72	9.2	47	6.4	5	1.7	20030	6.9	18010	32	0.3
56-44.3028-108.9278-2-15-						0-W00451	66910	-0.08	553	15310	79	-70	10.0	57	5.8	5	1.7	27450	7.9	20570	40	0.4
56-44.2958-108.9667-2-15-						0-W00452	36590	-0.03	537	16400	57	70	5.0	41	1.9	4	1.3	11420	10.0	14430	31	0.3
56-44.2519-108.9431-2-15-						0-W00453	42940	-0.04	736	23620	75	169	6.5	51	2.6	4	1.7	14880	11.2	16300	33	0.3
56-44.3517-108.9694-2-15-						0-W00454	54340	-0.20	703	41890	57	-90	4.3	43	4.0	3	1.3	19390	6.8	15800	-26	0.3
56-44.3833-108.9256-2-15-						0-W00455	56130	-0.04	621	48470	56	87	7.0	49	5.9	4	1.5	19350	6.1	16730	27	0.4
56-44.3847-108.9250-2-15-						0-W00456	57740	-0.04	675	47320	49	-60	6.3	43	5.5	4	1.4	18150	5.5	19170	25	0.3
56-44.3986-108.9972-2-12-						0-W00457	48870	-0.05	757	20290	94	-79	8.4	57	2.5	5	2.0	16520	20.6	15300	40	0.5
56-44.5683-108.8250-2-15-						0-W00458	35230	-0.04	539	20650	45	-52	7.0	49	1.9	4	1.3	13630	12.8	14000	23	0.3
56-44.5575-108.8403-2-15-						0-W00459	30030	-0.03	491	15280	40	-53	5.3	40	1.8	3	1.1	10730	6.5	11220	18	0.2
56-44.5497-108.8439-2-15-						0-W00460	32690	-0.05	468	20800	61	-50	5.2	58	1.8	4	1.3	13100	15.7	11960	26	0.4
56-44.5153-108.8317-2-15-						0-W00461	36220	-0.04	513	24680	55	244	7.5	48	2.5	4	1.5	15360	12.9	12940	28	0.3
56-44.5300-108.8106-2-15-						0-W00462	32590	-0.04	441	26950	46	1441	5.6	56	2.6	4	1.2	13380	11.0	12910	22	0.4
56-44.5419-108.8000-2-15-						0-W00463	34170	-0.04	511	26310	56	1420	5.6	56	1.6	4	1.4	13560	12.9	12310	23	0.4
56-44.5406-108.7564-2-11-						0-W00464	63320		508	15600		-52				6				20000		
56-44.5167-108.7575-2-15-						0-W00465	57500	-0.05	1004	29160	62	-71	10.4	53	4.9	4	1.8	21640	9.4	16280	31	0.3
56-44.4806-108.7708-2-15-						0-W00466	59110	-0.05	955	27430	66	-64	10.2	65	4.5	4	1.1	21220	8.8	14640	32	0.3
56-44.4931-108.8222-2-15-						0-W00467	59470	-0.06	770	19250	72	-73	10.5	58	3.9	4	1.6	20560	7.3	16710	30	0.3
56-44.4722-108.9875-2-12-						0-W00468	60150	-0.08	583	15650	79	-70	10.3	66	5.3	5	1.6	31810	7.5	19870	41	0.5
56-44.4389-108.9875-2-15-						0-W00469	52410	-0.05	773	27400	86	-75	10.8	101	2.8	4	2.0	22590	17.9	15640	39	0.4
56-44.4186-108.8667-2-15-						0-W00470	59590	-0.05	705	33440	57	-59	9.9	59	5.2	4	1.6	22200	5.8	19480	29	0.3
56-44.4178-108.8622-2-15-						0-W00471	55580	-0.05	637	25050	59	-67	9.8	62	4.6	5	1.5	21690	6.4	15690	26	0.4
56-44.4231-108.8292-2-15-						0-W00472	57960	-0.16	577	26730	58	-72	8.0	56	4.7	4	1.2	23340	6.2	14600	-17	0.4
56-44.3972-108.7944-2-15-						0-W00473	35640	-0.03	405	23110	50	-42	5.2	44	3.0	3	1.2	14030	10.8	14820	22	0.3
56-44.3708-108.7708-2-15-						0-W00474	24980	-0.03	452	20230	47	51	5.8	36	1.4	4	1.3	9801	19.3	11760	22	0.4
56-44.3653-108.7792-2-15-						0-W00475	34760	-0.04	420	23490	55	-51	6.6	41	2.5	4	1.2	12270	10.4	12370	22	0.3
56-44.3639-108.7944-2-15-						0-W00476	34520	-0.04	478	25670	51	80	4.9	46	2.4	5	1.1	13580	14.1	11330	24	0.4
56-44.3567-108.7958-2-12-						0-W00477	39200	-0.04	482	29590	49	214	6.8	42	3.5	4	1.3	14690	6.8	16040	21	0.3
56-44.3333-108.7722-2-15-						0-W00478	30240	-0.09	415	22200	53	-47	6.0	38	2.8	4	1.2	12800	10.6	14300	31	0.4
56-44.2958-108.7611-2-15-						0-W00479	32660	-0.08	316	21650	48	78	6.2	44	2.3	4	1.2	12210	11.2	13820	28	0.3
56-44.2742-108.7842-2-15-						0-W00480	35350	-0.10	452	20940	87	-46	6.8	58	2.4	4	1.3	15240	18.0	13220	45	0.5
56-44.2511-108.8208-2-15-						0-W00481	44450	-0.12	493	16910	68	-64	11.8	83	3.4	4	1.7	22790	15.1	13740	38	0.4
56-44.1181-108.9528-2-12-						0-W00482	34030	-0.08	453	31490	47	121	5.3	35	3.5	3	1.2	12290	7.5	13450	36	0.3
56-44.0403-108.9708-2-12-						0-W00483	49520	-0.06	555	48740	52	-61	5.5	46	4.4	4	1.1	16470	5.6	15810	23	0.4
56-44.0017-108.9403-2-15-						0-W00484	58960	-0.06	788	16350	66	169	9.2	93	3.8	4	1.0	24970	8.0	15890	39	0.3
56-44.0111-108.8819-2-12-						0-W00485	52140	-0.18	733	29990	62	-81	9.0	93	2.8	3	1.3	23710	10.3	14350	-24	0.3
56-44.0139-108.8764-2-15-						0-W00486	30830	-0.04	501	29070	46	-42	3.7	37	2.0	4	0.8	13740	10.2	12000	24	0.3

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.0493-108.6833-2-15-						0-W00435	9388	160	1870	42	-3	5.5	5.8	143	-1	-1	10.2	2893	64	3.7	61	0.314
56-44.1236-108.7317-2-15-						0-W00436	9387	235	4571	69	-3	6.3	7.2	-154	-1	-1	13.1	2953	43	5.1	74	0.244
56-44.1236-108.7294-2-15-						0-W00437	10450	211	5016	56	-3	5.7	5.3	348	-1	1	10.9	3134	47	-1.5	62	0.303
56-44.1233-108.7339-2-15-						0-W00438	10810	206	3811	64	-3	5.0	4.7	427	-1	-1	9.1	2545	43	3.9	54	0.319
56-44.0456-108.7100-2-15-						0-W00439	9099	232	6333	54	-3	5.3	6.5	-163	-1	-1	10.5	3033	47	5.4	46	0.324
56-44.1111-108.8986-2-15-						0-W00441	16930	245	2444	-18	-3	5.0	5.4	-137	-1	-1	7.3	2057	42	2.5	-10	0.329
56-44.1000-108.9042-2-15-						0-W00442	19630	270	3488	57	-3	4.9	3.5	-143	-1	-1	6.5	2310	51	-1.4	70	0.385
56-44.0931-108.9014-2-12-						0-W00443	17750	256	2824	43	-2	4.0	3.0	289	-1	-1	5.8	1902	41	2.9	88	0.414
56-44.0792-108.9000-2-15-						0-W00444	11430	278	2559	31	-3	4.1	4.6	-155		-1	8.4	2520	45	3.3	55	0.345
56-44.0736-108.8917-2-15-						0-W00445	25110	309	3756	87	-4	7.4	5.7	-166	-1	-1	10.3	2805	60	4.2	95	0.291
56-44.0569-108.9028-2-15-						0-W00446	27050	352	3026	-20	-3	5.7	4.4	-174	-1	-1	7.6	2489	57	-1.5	49	0.408
56-44.2764-108.8875-2-15-						0-W00447	11090	281	4559	73	-1	6.5	4.8	-156	-1	2	9.6	3255	56	3.6	63	0.271
56-44.2861-108.8681-2-15-						0-W00448	6220	231	4129	39	-1	5.1	4.9	-153	-1	-1	9.1	2924	52	3.8	59	0.330
56-44.2839-108.8708-2-15-						0-W00449	13210	338	6501	70	-1	7.0	5.2	-193	-1	-1	9.8	3264	59	2.6	66	0.265
56-44.3019-108.9236-2-15-						0-W00450	13960	310	7174	55	-1	7.5	5.7	269	-1	-1	11.4	3284	75	3.7	71	0.263
56-44.3028-108.9278-2-15-						0-W00451	18970	342	7346	73	-2	10.3	6.7	-238	-2	-1	14.0	3441	83	5.5	-46	0.221
56-44.2958-108.9667-2-15-						0-W00452	10750	238	5729	34	-1	3.8	4.4	-157	-1		7.9	2781	38	2.8	34	0.291
56-44.2519-108.9431-2-15-						0-W00453	14700	343	19030	47	-1	4.7	5.0	-225	-1	-1	7.8	3000	47	2.7	44	0.436
56-44.3517-108.9694-2-15-						0-W00454	34470	227	12570	-26	-5	5.1	5.2	-204	-1	-1	8.7	2454	69	-2.4	42	0.345
56-44.3833-108.9255-2-15-						0-W00455	36850	234	7702	92	-1	7.0	4.6	272	-1	1	8.2	2796	93	3.0	100	0.366
56-44.3847-108.9250-2-15-						0-W00456	38050	240	7845	82	-1	6.8	4.3	267	-1		8.5	2986	88	2.7	92	0.341
56-44.3986-108.9972-2-12-						0-W00457	19270	343	11790	49	-1	5.9	7.0	-194	-1	-1	11.9	4057	58	4.2	91	0.303
56-44.5683-108.8250-2-15-						0-W00458	17430	359	5736	47	-1	5.2	4.2	-183	-1	-1	8.0	3077	59	2.6	57	0.338
56-44.5575-108.8403-2-15-						0-W00459	11020	247	5105	-14	-1	4.0	3.4	296	-1	-1	5.4	1910	43	1.8	42	0.333
56-44.5497-108.8439-2-15-						0-W00460	13960	340	4571	-18	-1	4.9	4.8	-192	-1	-1	10.1	2386	49	3.7	30	0.297
56-44.5153-108.8317-2-15-						0-W00461	15720	413	6900	45	-1	5.5	3.8	-222	-1	-1	7.9	2535	50	2.7	34	0.430
56-44.5300-108.8106-2-15-						0-W00462	27540	329	25330	45	-1	5.1	4.7	-255	-1	-1	7.9	2719	48	2.6	39	0.418
56-44.5419-108.8000-2-15-						0-W00463	13660	363	13270	39	-1	4.8	4.4	-204	-1	-1	8.6	2379	49	3.3	58	0.337
56-44.5406-108.7664-2-11-						0-W00464	19100	234	2951					-169				3350	74			
56-44.5167-108.7575-2-15-						0-W00465	20830	460	7094	-20	-1	8.2	4.4	312	-1	1	8.4	3074	81	3.2	85	0.321
56-44.4806-108.7708-2-15-						0-W00466	23190	460	7142	81	-1	8.2	4.8	-230	-1	-1	9.5	3140	78	2.7	95	0.274
56-44.4931-108.8222-2-15-						0-W00467	17240	451	5717	50	-1	7.8	5.3	-222	-1	-1	9.8	3502	84	3.9	-68	0.276
56-44.4722-108.9875-2-12-						0-W00468	24860	235	8055	122	-2	9.3	6.8	-215	-1	-1	13.6	3256	60	3.2	-113	0.228
56-44.4389-108.9875-2-15-						0-W00469	20730	369	11530	-21	-1	9.1	6.4	372	-1	-1	9.8	3597	73	3.7	106	0.337
56-44.4186-108.8667-2-15-						0-W00470	27260	350	5923	65	-1	8.2	4.8	-205	-1	-1	8.8	3568	114	2.0	377	0.307
56-44.4178-108.8622-2-15-						0-W00471	27000	354	6098	57	-1	7.7	4.8	320	-1	-1	9.1	3315	103	3.1		0.286
56-44.4231-108.8292-2-15-						0-W00472	21390	358	4581	78	-4	8.0	5.1	-217	-1		9.9	2902	89	-1.9	86	0.273
56-44.3972-108.7944-2-15-						0-W00473	15660	316	3011	-16	-1	5.1	4.1	-173	-1	-1	7.3	2239	45	2.1	44	0.342
56-44.3708-108.7708-2-15-						0-W00474	14080	337	2793	32	-1	3.6	4.4	-162	-1	-1	8.3	2844	31	3.3	61	0.373
56-44.3653-108.7792-2-15-						0-W00475	19540	355	3505	41	-1	4.8	4.4	-166	-1	-1	8.0	2467	43	2.8	57	0.350
56-44.3639-108.7944-2-15-						0-W00476	19320	335	3714	48	-1	4.9	4.7	-173	-1	-1	9.6	2488	41	2.6	-14	0.313
56-44.3667-108.7958-2-12-						0-W00477	17930	259	4587	63	-1	5.0	3.7	-179	-1	-1	6.3	2486	48	2.7	59	0.381
56-44.3333-108.7722-2-15-						0-W00478	15700	373	3093	35	-2	4.4	4.6	-170	-1	-1	8.0	2237	38	3.1	52	0.313
56-44.2958-108.7611-2-15-						0-W00479	17870	227	3661	40	-2	4.3	5.5	-137	-1	-1	8.2	2347	36	3.2	-25	0.354
56-44.2742-108.7842-2-15-						0-W00480	16590	335	3988	47	-2	5.0	7.1	-179	-1	-1	21.9	2668	40	4.7	35	0.164
56-44.2511-108.8208-2-15-						0-W00481	15130	303	6760	53	-3	8.0	6.5	259	-1	-1	11.7	3067	55	4.1	88	0.231
56-44.1181-108.9528-2-12-						0-W00482	25590	226	5010	40	-2	4.3	3.4	-151	-1	-1	6.3	2109	51	-1.1	52	0.381
56-44.0403-108.9708-2-12-						0-W00483	40420	240	4372	-21	-1	5.1	4.1	-212	-1	-1	7.5	2464	82	2.0	-55	0.387
56-44.0017-108.9403-2-15-						0-W00484	12020	272	10340	74	-1	8.0	5.1	448	-1	-1	10.6	2577	76	4.0	-44	0.245
56-44.0111-108.8819-2-12-						0-W00485	21590	418	9392	-27	-4	8.2	4.6	667	-1	-1	9.6	3455	82	3.6	122	0.292
56-44.0139-108.8764-2-15-						0-W00486	18270	282	1008	-20	-1	4.2	3.6	258	-1	-1	6.5	2037	44	2.1	80	0.400

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	44.0056-	108.8736-	2-	15-		0-W00487-	08/24/76-	14-	30-		-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	2-	4-	2-	3-	1-	-	1-	-	-	-	2.10
56-	44.0375-	108.8792-	2-	15-		0-W00488-	08/24/76-	14-	30-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	3-	3-	1-	-	1-	-	-	-	2.70
56-	44.0389-	108.8756-	2-	15-		0-W00489-	08/24/76-	14-	30-		-	-	-	-	-	11-	1-	7-	4-	5-	-	-	-	2-	3-	3-	3-	1-	-	1-	-	-	-	2.70
56-	44.0350-	108.8744-	2-	15-		0-W00490-	08/24/76-	14-	30-		-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	2-	3-	2-	3-	1-	-	1-	-	-	-	2.60
56-	44.0333-	108.8611-	2-	15-		0-W00491-	08/24/76-	14-	30-		-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	2-	3-	3-	3-	1-	-	1-	-	-	-	2.50
56-	44.0244-	108.8375-	2-	15-		0-W00492-	08/24/76-	15-	30-		-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	2-	3-	2-	3-	1-	-	1-	-	-	-	2.50
56-	44.0222-	108.8208-	2-	15-		0-W00493-	08/24/76-	15-	30-		-	-	-	-	-	14-	1-	7-	4-	5-	-	-	-	2-	3-	2-	3-	1-	-	1-	-	-	-	2.60
56-	44.0078-	108.7875-	2-	15-		0-W00494-	08/24/76-	15-	30-		-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	2-	3-	2-	3-	1-	-	1-	-	-	-	3.00
56-	44.0017-	108.7778-	2-	15-		0-W00495-	08/24/76-	15-	30-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.80
56-	44.0028-	108.7667-	2-	15-		0-W00496-	08/24/76-	15-	30-		-	-	-	-	-	8-	1-	7-	4-	6-	-	-	-	2-	3-	3-	3-	1-	-	1-	-	-	-	2.30
56-	44.0708-	108.7722-	2-	15-		0-W00497-	08/24/76-	16-	30-		-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	2-	3-	2-	3-	1-	-	1-	-	-	-	3.00
56-	44.0597-	108.7764-	2-	15-		0-W00498-	08/24/76-	16-	30-		-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	2-	3-	3-	3-	1-	-	1-	-	-	-	3.10
56-	44.0611-	108.7833-	2-	15-		0-W00499-	08/24/76-	16-	30-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	2-	3-	1-	-	1-	-	-	-	2.80
56-	44.0667-	108.8569-	2-	15-		0-W00500-	08/24/76-	16-	30-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	3-	3-	1-	-	1-	-	-	-	3.10
56-	44.0625-	108.8153-	2-	15-		0-W00501-	08/24/76-	17-	30-		-C-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	2-	3-	3-	3-	1-	-	4-	-	-	-	2.40
56-	44.0667-	108.8172-	2-	15-		0-W00502-	08/24/76-	17-	30-		-C-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	2-	3-	3-	2-	1-	-	4-	-	-	-	3.20
56-	44.0792-	108.8200-	2-	15-		0-W00503-	08/24/76-	17-	30-		-C-	-	-	-	-	16-	1-	7-	4-	6-	-	-	-	2-	3-	3-	3-	1-	-	4-	-	-	-	3.10
56-	44.0819-	108.8181-	2-	15-		0-W00504-	08/24/76-	17-	30-		-	-	-	-	-	16-	1-	7-	4-	6-	-	-	-	2-	3-	2-	3-	1-	-	1-	-	-	-	3.10
56-	44.0861-	108.8017-	2-	15-		0-W00505-	08/24/76-	17-	30-		-C-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	2-	3-	1-	-	4-	-	-	-	2.50
56-	44.0875-	108.8000-	2-	15-		0-W00506-	08/24/76-	17-	30-		-C-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	2-	3-	2-	3-	1-	-	4-	-	-	-	2.70
56-	44.1547-	108.8611-	2-	15-		0-W00507-	08/24/76-	18-	30-		-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	2-	3-	2-	3-	1-	-	1-	-	-	-	3.80
56-	44.3222-	108.9278-	2-	15-		0-W00509-	08/25/76-	10-	24-		-	-	-	-	-	16-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	3.10
56-	44.3264-	108.9028-	2-	15-		0-W00510-	08/25/76-	10-	24-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	3.00
56-	44.3250-	108.8583-	2-	15-		0-W00511-	08/25/76-	10-	25-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.60
56-	44.3244-	108.8528-	2-	15-		0-W00512-	08/25/76-	10-	25-		-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.60
56-	44.3367-	108.8542-	2-	15-		0-W00513-	08/25/76-	10-	25-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.70
56-	44.3431-	108.8528-	2-	15-		0-W00514-	08/25/76-	10-	25-		-	-	-	-	-	8-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.80
56-	44.3556-	108.8306-	2-	15-		0-W00515-	08/25/76-	11-	26-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	2-	3-	3-	2-	1-	-	1-	-	-	-	2.40
56-	44.3611-	108.8347-	2-	15-		0-W00516-	08/25/76-	11-	26-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	2-	3-	3-	2-	1-	-	1-	-	-	-	2.70
56-	44.2486-	108.9264-	2-	15-		0-W00517-	08/25/76-	11-	30-		-	-	-	-	-	5-	1-	7-	4-	6-	-	-	-	2-	3-	2-	3-	1-	-	1-	-	-	-	1.90
56-	44.2431-	108.9250-	2-	15-		0-W00518-	08/25/76-	11-	30-		-	-	-	-	-	3-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.10
56-	44.2069-	108.8944-	2-	15-		0-W00519-	08/25/76-	12-	30-		-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.40
56-	44.2222-	108.8342-	2-	15-		0-W00520-	08/25/76-	12-	30-		-	-	-	-	-	8-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.10
56-	44.2403-	108.8381-	2-	15-		0-W00521-	08/25/76-	12-	30-		-	-	-	-	-	8-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	1.40
56-	44.2500-	108.8208-	2-	15-		0-W00522-	08/25/76-	12-	30-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	1.60
56-	44.2472-	108.7750-	2-	15-		0-W00523-	08/25/76-	13-	32-		-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	2-	3-	1-	2-	1-	-	1-	-	-	-	3.40
56-	44.2375-	108.8033-	2-	15-		0-W00524-	08/25/76-	13-	32-		-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	3.40
56-	44.0381-	108.3067-	2-	15-		0-W00525-	08/22/76-	11-	33-		-	-	-	-	-	8-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.80
56-	44.0419-	108.2625-	2-	15-		0-W00526-	08/22/76-	11-	33-		-	-	-	-	-	9-	1-	7-	4-	5-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	3.20
56-	44.0703-	108.3100-	2-	15-		0-W00527-	08/22/76-	12-	34-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	1.90
56-	44.0736-	108.3306-	2-	15-		0-W00528-	08/22/76-	12-	34-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	6.60
56-	44.0722-	108.3306-	2-	15-		0-W00529-	08/22/76-	12-	34-		-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.30
56-	44.0694-	108.3372-	2-	15-		0-W00530-	08/22/76-	12-	34-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.20
56-	44.0681-	108.3372-	2-	15-		0-W00531-	08/22/76-	12-	34-		-	-	-	-	-	8-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.20
56-	44.0086-	108.3139-	2-	15-		0-W00532-	08/22/76-	13-	35-		-	-	-	-	-	8-	1-	7-	4-	6-	-	-	-	2-	4-	3-	1-	1-	-	1-	-	-	-	3.10
56-	44.0325-	108.3508-	2-	15-		0-W00533-	08/22/76-	13-	35-		-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.80
56-	44.0336-	108.3697-	2-	15-		0-W00534-	08/22/76-	13-	35-		-	-	-	-	-	4-	1-	7-	4-	6-	-	-	-	2-	3-	3-	1-	1-	-	1-	-	-	-	3.90
56-	44.0133-	108.3628-	2-	15-		0-W00535-	08/22/76-	13-	35-		-C-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	1-	3-	3-	1-	1-	-	1-	-	-	-	3.00
56-	44.0256-	108.3819-	2-	15-		0-W00536-	08/22/76-	13-	35-		-	-	-	-	-	6-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	2.70
56-	44.0197-	108.4583-	2-	15-		0-W00537-	08/22/76-	14-	35-		-	-	-	-	-	8-	1-	7-	4-	5-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	3.60
56-	44.0217-	108.4561-	2-	15-		0-W00538-	08/22/76-	14-	35-		-	-	-	-	-	6-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	3.20

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

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-	44.0056-	108.8736-	2-	15-	0-	W00497	-5	-5	-5	14	-20	-15	7	-10	-15	1	17
56-	44.0375-	108.8792-	2-	15-	0-	W00498	-5	-5	-5	14	-20	16	11	-10	-15	1	17
56-	44.0389-	108.8756-	2-	15-	0-	W00499	-5	-5	-5	18	-20	-15	15	-10	-15	1	19
56-	44.0350-	108.8744-	2-	15-	0-	W00500	-5	-5	-5	18	-20	-15	14	-10	-15	2	19
56-	44.0333-	108.8611-	2-	15-	0-	W00501	-5	-5	-5	14	-20	-15	7	-10	-15	2	17
56-	44.0244-	108.8375-	2-	15-	0-	W00492	-5	-5	-5	-10	-20	-15	10	-10	-15	1	17
56-	44.0222-	108.8208-	2-	15-	0-	W00493	-5	-5	-5	22	-20	-15	11	-10	-15	1	14
56-	44.0078-	108.7875-	2-	15-	0-	W00494	-5	-5	-5	10	-20	-15	-5	-10	-15	2	16
56-	44.0017-	108.7778-	2-	15-	0-	W00495	-5	-5	-5	17	-20	-15	9	-10	-15	2	19
56-	44.0028-	108.7667-	2-	15-	0-	W00496	-5	-5	-5	14	-20	-15	12	-10	-15	1	13
56-	44.0708-	108.7722-	2-	15-	0-	W00497	-5	-5	-5	25	-20	-15	14	-10	-15	2	34
56-	44.0597-	108.7764-	2-	15-	0-	W00498	-5	-5	-5	16	-20	-15	12	-10	-15	2	44
56-	44.0611-	108.7833-	2-	15-	0-	W00499	-5	-5	-5	13	-20	-15	9	-10	-15	2	20
56-	44.0667-	108.8569-	2-	15-	0-	W00500	-5	-5	-5	11	-20	-15	11	-10	-15	2	24
56-	44.0625-	108.8153-	2-	15-	0-	W00501	-5	-5	-5	10	-20	-15	8	-10	-15	2	21
56-	44.0667-	108.8172-	2-	15-	0-	W00502	-5	-5	-5	19	-20	15	20	-10	-15	2	14
56-	44.0792-	108.8200-	2-	15-	0-	W00503	-5	-5	-5	29	-20	-15	16	-10	-15	2	45
56-	44.0819-	108.8181-	2-	15-	0-	W00504	-5	-5	-5	17	-20	-15	6	-10	-15	2	44
56-	44.0861-	108.8017-	2-	15-	0-	W00505	-5	-5	-5	12	-20	-15	-5	-10	-15	1	38
56-	44.0875-	108.8000-	2-	15-	0-	W00506	-5	-5	-5	22	-20	-15	9	-10	-15	1	27
56-	44.1547-	108.8611-	2-	15-	0-	W00507	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	19
56-	44.3222-	108.9278-	2-	15-	0-	W00509	-5	-5	-5	11	-20	-15	-5	-10	-15	2	35
56-	44.3264-	108.9028-	2-	15-	0-	W00510	-5	-5	-5	17	-20	23	9	-10	-15	2	60
56-	44.3250-	108.8583-	2-	15-	0-	W00511	-5	-5	-5	13	-20	20	-5	-10	-15	2	42
56-	44.3244-	108.8528-	2-	15-	0-	W00512	-5	-5	-5	16	-20	-15	9	-10	-15	2	44
56-	44.3367-	108.8542-	2-	15-	0-	W00513	-5	-5	-5	14	-20	-15	6	-10	-15	2	44
56-	44.3431-	108.8528-	2-	15-	0-	W00514	-5	-5	-5	16	-20	-15	-5	-10	-15	2	40
56-	44.3556-	108.8306-	2-	15-	0-	W00515	-5	-5	-5	16	-20	-15	-5	-10	-15	2	38
56-	44.3611-	108.8347-	2-	15-	0-	W00516	-5	-5	-5	16	-20	-15	7	-10	-15	2	52
56-	44.2486-	108.9264-	2-	15-	0-	W00517	-5	-5	-5	14	-20	-15	5	-10	-15	1	7
56-	44.2431-	108.9250-	2-	15-	0-	W00518	-5	-5	-5	14	-20	-15	7	-10	-15	1	12
56-	44.2069-	108.8944-	2-	15-	0-	W00519	-5	-5	-5	16	-20	-15	10	-10	-15	2	16
56-	44.2222-	108.8342-	2-	15-	0-	W00520	-5	-5	-5	13	-20	-15	6	-10	-15	-1	11
56-	44.2403-	108.8381-	2-	15-	0-	W00521	-5	-5	-5	15	-20	-15	6	-10	-15	-1	8
56-	44.2500-	108.8208-	2-	15-	0-	W00522	-5	-5	-5	-10	-20	-15	9	-10	-15	1	7
56-	44.2472-	108.7750-	2-	15-	0-	W00523	-5	-5	-5	19	-20	-15	9	-10	-15	1	20
56-	44.2375-	108.8033-	2-	15-	0-	W00524	-5	-5	-5	10	-20	-15	6	-10	-15	1	12
56-	44.0381-	108.3067-	2-	15-	0-	W00525	-5	-5	-5	23	-20	18	25	-10	-15	2	19
56-	44.0419-	108.2625-	2-	15-	0-	W00526	-5	-5	-5	32	-20	28	12	14	-15	2	23
56-	44.0733-	108.3100-	2-	15-	0-	W00527	-5	-5	-5	13	-20	-15	15	-10	-15	1	13
56-	44.0736-	108.3306-	2-	15-	0-	W00528	-5	-5	-5	11	-20	25	5	-10	18	1	10
56-	44.0722-	108.3306-	2-	15-	0-	W00529	-5	-5	-5	15	-20	-15	15	-10	-15	1	10
56-	44.0694-	108.3372-	2-	15-	0-	W00530	-5	-5	-5	19	-20	17	-5	-10	-15	1	15
56-	44.0681-	108.3372-	2-	15-	0-	W00531	-5	-5	-5	15	-20	-15	15	-10	-15	1	15
56-	44.0086-	108.3139-	2-	15-	0-	W00532	-5	-5	-5	11	-20	24	24	-10	-15	2	25
56-	44.0325-	108.3508-	2-	15-	0-	W00533	-5	-5	-5	14	-20	-15	7	-10	-15	2	18
56-	44.0336-	108.3697-	2-	15-	0-	W00534	-5	-5	-5	19	-20	32	18	-10	-15	2	25
56-	44.0133-	108.3628-	2-	15-	0-	W00535	-5	-5	-5	-10	-20	-15	11	-10	-15	1	13
56-	44.0256-	108.3819-	2-	15-	0-	W00536	-5	-5	-5	19	-20	20	-5	-10	-15	1	15
56-	44.0197-	108.4583-	2-	15-	0-	W00537	-5	-5	?	13	-20	27	9	-10	-15	2	27
56-	44.0217-	108.4561-	2-	15-	0-	W00538	-5	-5	-5	12	-20	-15	8	-10	-15	2	18

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.0056-	108.8736-	2-	15-		0-W00497	33600	-0.04	476	32340	39	-57	3.6	37	2.1	3	1.0	11400	7.4	15010	19	0.3
56-	44.0375-	108.8792-	2-	15-		0-W00498	32740	-0.05	445	24970	51	-45	5.3	43	2.3	4	1.2	13430	8.9	12520	28	0.3
56-	44.0389-	108.8756-	2-	15-		0-W00499	31430	-0.16	455	24690	50	-53	3.2	29	1.9	3	0.9	9465	7.1	10940	-21	0.4
56-	44.0350-	108.8744-	2-	15-		0-W00490	32550	-0.04	435	27470	38	-58	4.0	36	2.2	4	0.9	10800	5.0	13340	18	0.2
56-	44.0333-	108.8611-	2-	15-		0-W00491	32740	-0.05	492	27370	45	-34	3.2	31	1.8	3	0.9	8843	9.5	12660	22	0.3
56-	44.0244-	108.8375-	2-	15-		0-W00492	30330	-0.06	411	25160	49	62	4.2	51	-1.4	3	1.0	12460	10.4	12670	29	0.3
56-	44.0222-	108.8208-	2-	15-		0-W00493	28830	-0.19	404	18960	49	-41	4.8	44	3.2	4	1.0	14050	14.7	13620	-24	0.3
56-	44.0078-	108.7875-	2-	15-		0-W00494	38640	-0.05	490	9495	56	-54	4.5	48	3.4	5	1.1	11730	14.7	12600	31	0.4
56-	44.0017-	108.7778-	2-	15-		0-W00495	48830	-0.07	559	20870	60	-74	6.7	52	2.7	5	1.1	13710	8.0	16270	28	0.3
56-	44.0028-	108.7667-	2-	15-		0-W00496	32420	-0.06	524	12340	50	-47	6.0	49	3.2	4	1.1	16580	10.5	11580	26	0.3
56-	44.0708-	108.7722-	2-	15-		0-W00497	50090	-0.15	597	27170	55	-72	6.8	49	4.6	4	1.2	18560	8.2	16970	-17	0.3
56-	44.0597-	108.7764-	2-	15-		0-W00498	51650	-0.05	630	29120	52	-70	6.3	53	4.7	5	0.7	19340	8.1	18370	29	0.3
56-	44.0611-	108.7833-	2-	15-		0-W00499	41430	-0.05	514	25450	61	-57	4.4	39	3.5	4	1.1	13070	10.1	14380	27	0.3
56-	44.0667-	108.8569-	2-	15-		0-W00500	41560	-0.06	487	25600	71	-53	6.2	56	3.8	5	1.3	16470	15.3	14230	34	0.4
56-	44.0625-	108.8153-	2-	15-		0-W00501	42410	-0.15	484	21920	46	-63	4.0	30	3.8	3	1.0	12450	4.8	16640	-21	0.3
56-	44.0667-	108.8172-	2-	15-		0-W00502	62720	-0.06	524	33330	51	258	5.8	61	5.1	5	1.2	13240	4.0	18630	26	0.3
56-	44.0792-	108.8200-	2-	15-		0-W00503	57980	-0.06	708	45910	58	-79	4.7	44	3.4	4	1.0	16090	5.8	19220	25	0.3
56-	44.0819-	108.8181-	2-	15-		0-W00504	58370	-0.07	686	41740	70	125	6.4	63	4.0	4	0.9	22890	7.6	18430	32	0.3
56-	44.0861-	108.8017-	2-	15-		0-W00505	31400	-0.17	317	38510	42	2138	2.8	38	2.4	3	0.7	10530	8.2	11820	-25	0.2
56-	44.0875-	108.8000-	2-	15-		0-W00506	32530	-0.05	374	74490	40	411	4.6	33	2.8	4	1.0	13330	6.5	12450	21	0.2
56-	44.1547-	108.8611-	2-	15-		0-W00507	45730	-0.06	645	10380	92	-67	5.4	49	3.8	6	1.5	14580	26.9	17860	42	0.5
56-	44.3222-	108.9278-	2-	15-		0-W00508	42380	-0.05	813	15560	63	640	8.1	72	4.1	5	1.7	21290	15.2	14080	26	0.4
56-	44.3264-	108.9023-	2-	15-		0-W00510	55450	-0.07	803	20110	73	-55	17.6	107	6.4	4	2.0	35290	10.2	15350	36	0.3
56-	44.3250-	108.8583-	2-	15-		0-W00511	50110	-0.05	754	11940	58	-56	10.1	71	5.0	4	1.7	23030	7.6	17450	25	0.3
56-	44.3244-	108.8528-	2-	15-		0-W00512	49200	-0.05	738	11530	53	-60	9.8	69	4.5	4	1.7	24200	7.3	16470	24	0.4
56-	44.3367-	108.8542-	2-	15-		0-W00513	50320	-0.06	820	15410	60	-52	9.7	68	5.1	4	1.6	23200	7.5	15370	25	0.3
56-	44.3431-	108.8528-	2-	15-		0-W00514	46800	-0.07	788	12490	66	-51	12.2	83	5.2	4	1.8	28180	9.3	16640	30	0.4
56-	44.3556-	108.8306-	2-	15-		0-W00515	43770	-0.05	827	9256	50	692	9.7	64	4.2	4	1.4	22230	6.6	15850	27	0.2
56-	44.3611-	108.8347-	2-	15-		0-W00516	46700	-0.05	743	13300	49	-56	9.3	66	4.8	5	1.4	21550	5.9	15840	27	0.3
56-	44.2486-	108.9264-	2-	15-		0-W00517	22460	-0.04	372	3334	44	69	3.0	22	1.5	3	1.0	7829	7.0	8513	18	0.2
56-	44.2431-	108.9250-	2-	15-		0-W00518	31970	-0.05	446	4151	52	74	5.6	37	3.2	3	1.3	12660	11.1	11300	25	0.3
56-	44.2069-	108.8944-	2-	15-		0-W00519	37160	-0.04	444	3091	50	269	5.0	36	3.7	4	1.1	11660	9.2	10570	25	0.3
56-	44.2222-	108.8342-	2-	15-		0-W00520	25900	-0.03	400	3951	43	-31	4.8	31	2.2	3	1.0	10100	9.8	9205	19	0.3
56-	44.2403-	108.8381-	2-	15-		0-W00521	20660	-0.03	356	2785	38	162	2.9	19	1.6	2	0.8	6227	3.7	9479	16	0.2
56-	44.2500-	108.8208-	2-	15-		0-W00522	22160	-0.04	382	4392	51	-27	4.3	27	1.8	3	1.1	9799	6.8	8382	24	0.2
56-	44.2472-	108.7750-	2-	15-		0-W00523	30680	-0.04	467	22720	55	-42	7.4	56	1.8	4	1.2	13930	14.6	14660	27	0.3
56-	44.2375-	108.8033-	2-	15-		0-W00524	33350	-0.04	478	22390	51	-48	7.9	53	2.4	4	1.2	14500	13.3	16240	26	0.3
56-	44.0381-	108.3067-	2-	15-		0-W00525	36520	-0.09	545	11910	47	-42	7.2	36	3.1	5	1.3	13400	9.0	13200	26	0.3
56-	44.0419-	108.2625-	2-	15-		0-W00526	40410	-0.10	475	11180	61	-39	7.2	40	2.5	4	1.2	13250	14.5	12950	33	0.4
56-	44.0703-	108.3100-	2-	15-		0-W00527	21920	-0.04	490	5484	37	-35	3.6	34	1.6	3	0.6	10790	8.4	11060	18	0.3
56-	44.0736-	108.3306-	2-	15-		0-W00528	29000	-0.19	546	4739	117	-35	4.0	56	-1.2	6	1.7	11740	90.5	9263	86	1.1
56-	44.0722-	108.3306-	2-	15-		0-W00529	22470	-0.04	480	5979	41	-44	3.7	27	1.4	4	0.9	8085	11.3	10460	19	0.3
56-	44.0694-	108.3372-	2-	15-		0-W00530	29260	-0.05	538	7229	34	-48	4.0	33	1.9	3	0.8	9233	5.3	16240	15	0.3
56-	44.0681-	108.3372-	2-	15-		0-W00531	26660	-0.05	456	6030	49	-43	5.2	50	2.6	3	0.6	11960	9.6	12330	23	0.3
56-	44.0086-	108.3139-	2-	15-		0-W00532	45810	-0.10	525	17190	69	-52	9.1	59	4.5	4	1.6	18500	12.7	14520	38	0.4
56-	44.0325-	108.3508-	2-	15-		0-W00533	30410	-0.09	359	8741	53	-33	4.9	31	2.3	3	1.2	10330	12.7	11140	29	0.3
56-	44.0336-	108.3697-	2-	15-		0-W00534	40510	-0.11	418	11980	66	-33	8.4	50	3.7	4	1.5	16740	21.6	13460	43	0.5
56-	44.0133-	108.3628-	2-	15-		0-W00535	33800	-0.09	480	5403	55	-46	6.2	43	3.0	4	1.2	12600	18.8	13450		0.4
56-	44.0256-	108.3819-	2-	15-		0-W00536	38720	-0.15	540	12260	55	-39	6.1	38	3.1	4	1.3	11990	8.7	14570	-16	0.4
56-	44.0197-	108.4583-	2-	15-		0-W00537	36250	-0.16	465	13990	70	-36	8.4	48	3.9	4	1.5	16140	20.8	12700	70	0.5
56-	44.0217-	108.4561-	2-	15-		0-W00538	29690	-0.12	514	8994	61	-35	6.3	40	3.3	4	1.3	11540	19.3	10610	30	0.4

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.0056-108.8736-2-15-						0-W00497	23550	211	5454	-17	-1	3.8	3.3	-179	-1		5.5	1671	46	2.1	57	0.382
56-44.0375-108.8792-2-15-						0-W00498	20990	219	2503	52	-1	4.7	4.5	-166	-1	-1	9.1	2128	46	2.4	61	0.297
56-44.0389-108.8756-2-15-						0-W00499	21150	213	2579	-19	-4	3.4	3.0	-165	-1	-1	6.2	1851	43	-1.9	-33	0.435
56-44.0350-108.8744-2-15-						0-W00500	20640	215	3278	-18	-1	3.5	3.4	202	-1	-1	5.7	1964	46	1.6	70	0.388
56-44.0333-108.8611-2-15-						0-W00501	22220	176	1051	-17	-1	3.9	3.6	-154	-1	-1	6.6	2041	45	2.2	32	0.379
56-44.0244-108.8375-2-15-						0-W00502	20460	204	1205	49	-1	4.9	4.6	-167	-1	-1	8.5	2225	45	3.1	104	0.294
56-44.0222-108.8208-2-15-						0-W00503	14520	213	927	-29	-4	4.9	5.0	-154	-1	-1	8.6	2170	37	-2.2	75	0.302
56-44.0078-108.7975-2-15-						0-W00504	9487	189	2761	-20	-1	4.8	4.3	-155	-1	-1	8.6	2492	43	2.8	70	0.349
56-44.0017-108.7779-2-15-						0-W00505	12000	257	6129	-22	-1	5.0	4.0	-240	-1	-1	8.2	2614	45	-1.7	-80	0.341
56-44.0028-108.7667-2-15-						0-W00506	9307	257	3140	58	-1	5.3	4.6	-180	-1	-1	8.0	2273	43	2.4	73	0.288
56-44.0708-108.7722-2-15-						0-W00497	23650	331	4916	55	-4	6.8	5.1	-214	-1	-1	8.6	2813	87	4.5	81	0.349
56-44.0597-108.7764-2-15-						0-W00498	21390	319	5314	76	-1	6.9	4.8	343	-1	-1	8.4	2979	90	2.4	74	0.369
56-44.0511-108.7833-2-15-						0-W00499	19470	247	4587	-20	-1	4.8	4.0	-199	-1	-1	7.2	2525	55	2.7	-29	0.389
56-44.0667-108.8569-2-15-						0-W00500	21100	235	4820	-22	-1	5.2	6.0	-182	-1	-1	10.0	2814	53	4.0	36	0.310
56-44.0625-108.8153-2-15-						0-W00501	18740	188	5452	-20	-4	4.9	3.9	-166	-1	-1	7.5	2408	49	4.0	102	0.320
56-44.0667-108.8172-2-15-						0-W00502	26630	310	6934	64	-1	7.3	4.5	-238	-1	-1	10.5	3043	77	2.9	-92	0.305
56-44.0792-108.8200-2-15-						0-W00503	32020	281	9333	62	-1	5.7	5.2	506	-1	-1	8.8	2383	85	2.1	-81	0.352
56-44.0319-108.8181-2-15-						0-W00504	32020	277	8953	69	-2	7.8	5.7	284	3	-1	10.7	2817	84	3.0	110	0.290
56-44.0851-108.8017-2-15-						0-W00505	32690	241	13960	-20	-4	3.4	-2.0	-246	-1	-1	6.0	1822	46	-2.0	38	0.417
56-44.0875-108.8000-2-15-						0-W00506	44160	373	5605	47	-1	4.5	3.2	-228	-1		6.6	1930	61	1.8	47	0.409
56-44.1547-108.8611-2-15-						0-W00507	9109	296	7399	-20	-1	5.2	6.3	-210	-1	-1	12.1	3563	45	4.6	47	0.314
56-44.3222-108.9278-2-15-						0-W00509	14800	218	6045	58	-1	6.4	4.5	277	-1	-1	7.7	3470	133	3.8	72	0.403
56-44.3264-108.9028-2-15-						0-W00510	19910	413	5898	84	-2	12.4	6.0	-204	-1	-1	12.5	3737	152	4.4	136	0.240
56-44.3250-108.8583-2-15-						0-W00511	14350	253	5587	68	-1	9.2	5.0	-162	-1	-1	8.0	3689	133	2.7	106	0.325
56-44.3244-108.8528-2-15-						0-W00512	15920	250	5533	76	-1	8.3	4.7	-165	-1	-1	8.5	3071	132	2.1	125	0.306
56-44.3367-108.8542-2-15-						0-W00513	15420	253	5288	63	-1	8.0	4.6	-180	-1	-1	8.1	3113	146	3.3	65	0.333
56-44.3431-108.8523-2-15-						0-W00514	17420	227	5136	84	-2	9.3	5.4	-170	-1	-1	10.9	3281	136	3.6	131	0.257
56-44.3556-108.8306-2-15-						0-W00515	14330	212	5262	60	-1	7.2	3.8	-155	-1	-1	7.5	2857	137	-0.9	99	0.320
56-44.3611-108.8347-2-15-						0-W00516	14960	232	5072	53	-1	7.6	4.6	-153	-1	-1	8.1	2951	137	2.4	103	0.333
56-44.2486-108.9264-2-15-						0-W00517	4731	121	2988	-13	-1	2.7	3.3	-115	-1		5.2	1861	35	2.5	36	0.365
56-44.2431-108.9250-2-15-						0-W00518	6751	144	2524	52	-1	4.8	4.0	-124	-1	-1	6.9	2446	49	2.4	63	0.304
56-44.2069-108.8944-2-15-						0-W00519	5710	101	2089	46	-1	4.8	3.5	-104	-1	-1	6.4	2571	61	2.9	36	0.375
56-44.2222-108.8342-2-15-						0-W00520	5220	113	2055	36	-1	3.7	3.3	-96	-1	-1	5.7	2218	42	2.0	45	0.368
56-44.2403-108.8381-2-15-						0-W00521	3845	88	3239	-11	-1	2.1	2.7	-103	-1		3.8	1278	28	-0.8	23	0.368
56-44.2500-108.8203-2-15-						0-W00522	4196	143	1728	34	-1	3.5	3.6	-105	-1		5.6	2087	34	1.9	46	0.286
56-44.2472-108.7750-2-15-						0-W00523	14580	294	2545	40	-1	4.2	3.9	-147	-1	-1	9.3	2337	42	2.6		0.366
56-44.2375-108.8033-2-15-						0-W00524	16940	312	2671	47	-1	4.6	4.6	-163	-1	-1	11.3	2202	42	2.7	49	0.301
56-44.0381-108.3067-2-15-						0-W00525	10350	379	2059	49	-2	4.8	4.8	-190	-1	-1	7.0	2942	60	3.1	66	0.400
56-44.0419-108.2625-2-15-						0-W00526	12280	263	3204	46	-2	4.9	5.4	-149	-1	-1	8.2	2957	55	4.9	65	0.390
56-44.0703-108.3100-2-15-						0-W00527	4503	222	2152	49	-1	3.3	3.6	-151	-1	-1	6.8	1675	29	2.2	52	0.279
56-44.0736-108.3306-2-15-						0-W00528	5871	221	1554	-21	-4	5.5	9.5	-142	-1	1	23.8	3123	34	11.6	32	0.277
56-44.0722-108.3306-2-15-						0-W00529	5511	205	2174	-15	-1	2.9	3.5	-146	-1	-1	6.9	1695	32	2.6	38	0.333
56-44.0694-108.3372-2-15-						0-W00530	7253	261	3055	-17	-1	3.1	3.3	-193	-1	-1	5.1	2169	41	1.9	51	0.431
56-44.0681-108.3372-2-15-						0-W00531	6403	223	2967	57	-1	4.2	4.3	-160	-1	-1	7.6	2377	40	2.5	37	0.289
56-44.0086-108.3139-2-15-						0-W00532	18510	253	4328	53	-2	5.6	5.4	-154	-1	-1	9.4	3057	64	3.1	86	0.330
56-44.0325-108.3503-2-15-						0-W00533	8719	154	2387	39	-2	3.8	4.1	-123	-1		6.8	2243	41	2.7	62	0.412
56-44.0336-108.3697-2-15-						0-W00534	15040	171	2296	65	-3	6.5	5.0	-126	-1	-1	10.7	2779	58	4.9	-24	0.364
56-44.0133-108.3628-2-15-						0-W00535	10560	249	3618	43	-2	4.8	5.2	-143	-1	-1	8.7	2985	47	3.8	51	0.345
56-44.0256-108.3819-2-15-						0-W00536	13000	298	2462	59	-3	4.4	5.6	-177	-1	-1	8.2	2689	59	-1.7	43	0.329
56-44.0197-108.4583-2-15-						0-W00537	14390	231	2598	71	-4	6.1	-2.0	-138	-1	-1	10.9	2904	51	4.1	77	0.330
56-44.0217-108.4561-2-15-						0-W00538	9745	237	1342	44	-3	4.5	5.5	-133	-1	-1	8.3	2698	46	4.1	57	0.386

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	44.0361	108.4564	2	15	-	0-W00539	08/22/75	14	35	-	-	-	-	-	9	1	7	4	6	-	-	-	2	3	2	2	1	-	1	-	-	-	-	2.70
56	44.0942	108.4606	2	15	-	0-W00540	08/22/75	14	35	-	-	-	-	-	9	1	7	4	6	-	-	-	2	3	2	3	1	-	1	-	-	-	-	2.30
56	44.0933	108.4603	2	15	-	0-W00541	08/22/75	14	36	-	-	-	-	-	6	1	7	4	6	-	-	-	2	3	2	3	1	-	1	-	-	-	-	1.90
56	44.0889	108.4061	2	15	-	0-W00542	08/22/75	15	36	-	-	-	-	-	8	1	7	4	6	-	-	-	2	3	2	2	1	-	1	-	-	-	-	3.30
56	44.0869	108.4061	2	15	-	0-W00543	08/22/75	15	36	-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	2	2	1	-	1	-	-	-	-	3.00
56	44.0119	108.5008	2	15	-	0-W00544	08/22/75	15	38	-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	3.00
56	44.0200	108.5386	2	15	-	0-W00545	08/22/75	15	36	-	-	-	-	-	6	1	7	4	6	-	-	-	2	3	3	1	1	-	1	-	-	-	-	3.00
56	44.0203	108.5544	2	15	-	0-W00546	08/22/75	15	36	-	-	-	-	-	8	1	7	4	6	-	-	-	2	3	2	1	1	-	1	-	-	-	-	3.00
56	44.0244	108.5908	2	15	-	0-W00548	08/22/75	16	36	-	-	-	-	-	14	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	3.80
56	44.0236	108.6158	2	15	-	0-W00549	08/22/75	16	36	-	-	-	-	-	14	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	2.30
56	44.0417	108.6111	2	15	-	0-W00550	08/22/75	16	36	-	-	-	-	-	8	1	7	4	6	-	-	-	2	3	2	3	1	-	1	-	-	-	-	2.90
56	44.0406	108.6122	2	15	-	0-W00551	08/22/75	16	36	-	-	-	-	-	9	1	7	4	6	-	-	-	2	3	3	3	1	-	1	-	-	-	-	3.30
56	44.0350	108.6917	2	15	-	0-W00552	08/22/75	17	34	-	-	-	-	-	9	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	2.90
56	44.0478	108.6833	2	15	-	0-W00553	08/22/75	18	34	-	-	-	-	-	15	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	2.80
56	44.0481	108.7161	2	15	-	0-W00554	08/22/75	18	34	-	-	-	-	-	14	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	2.80
56	44.0550	108.7161	2	15	-	0-W00555	08/22/75	18	34	-	-	-	-	-	16	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	2.30
56	44.0689	108.7347	2	15	-	0-W00556	08/22/75	18	34	-	-	-	-	-	14	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	2.40
56	44.0889	108.7611	2	15	-	0-W00557	08/23/75	12	28	-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	2.40
56	44.1419	108.6494	2	15	-	0-W00558	08/23/75	13	30	-	-	-	-	-	17	1	7	4	6	-	-	-	2	3	1	3	1	-	1	-	-	-	-	3.40
56	44.1561	108.6697	2	15	-	0-W00559	08/23/75	13	30	-	-	-	-	-	16	1	7	1	4	-	-	-	2	3	1	3	1	-	1	-	-	-	-	3.00
56	44.1456	108.7211	2	15	-	0-W00560	08/23/75	13	30	-	-	-	-	-	8	1	7	4	6	-	-	-	2	3	1	3	1	-	1	-	-	-	-	3.50
56	44.1469	108.6861	2	15	-	0-W00561	08/23/75	13	30	-	-	-	-	-	9	1	7	4	6	-	-	-	2	3	2	3	1	-	1	-	-	-	-	2.30
56	44.1447	108.6844	2	15	-	0-W00562	08/23/75	13	30	-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	2	3	1	-	1	-	-	-	-	2.30
56	44.1628	108.6864	2	15	-	0-W00563	08/23/75	13	30	-	-	-	-	-	8	1	7	4	6	-	-	-	2	3	2	3	1	-	1	-	-	-	-	2.90
56	44.1817	108.6625	2	15	-	0-W00564	08/23/75	14	30	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	3	3	1	-	1	-	-	-	-	3.00
56	44.1814	108.6497	2	15	-	0-W00565	08/23/75	14	30	-	-	-	-	-	14	1	7	4	6	-	-	-	2	3	3	3	1	-	1	-	-	-	-	3.00
56	44.1917	108.6514	2	15	-	0-W00566	08/23/75	14	30	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	3	3	1	-	1	-	-	-	-	3.60
56	44.1592	108.3785	2	15	-	0-W00567	08/23/75	14	30	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	2.70
56	44.1394	108.3942	2	15	-	0-W00568	08/23/75	14	30	-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	2	2	1	-	1	-	-	-	-	3.10
56	44.1686	108.4142	2	15	-	0-W00569	08/23/75	14	30	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	3	2	1	-	1	-	-	-	-	3.60
56	44.1903	108.4361	2	15	-	0-W00570	08/23/75	15	28	-	-	-	-	-	14	1	7	4	6	-	-	-	2	3	3	2	2	-	1	-	-	-	-	3.60
56	44.2272	108.4311	2	15	-	0-W00571	08/23/75	15	29	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	2	2	2	-	1	-	-	-	-	3.60
56	44.2153	108.4397	2	15	-	0-W00572	08/23/75	15	28	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	2	2	2	-	1	-	-	-	-	8.20
56	44.2125	108.4433	2	15	-	0-W00573	08/23/75	15	28	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	2	2	2	-	1	-	-	-	-	3.00
56	44.2039	108.4683	2	15	-	0-W00574	08/23/75	15	28	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	3	2	2	-	1	-	-	-	-	4.90
56	44.2058	108.4928	2	15	-	0-W00575	08/23/75	15	28	-	-	-	-	-	14	1	7	4	6	-	-	-	2	3	3	2	2	-	1	-	-	-	-	2.20
56	44.2039	108.5061	2	15	-	0-W00576	08/23/75	15	28	-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	3	2	3	-	1	-	-	-	-	3.20
56	44.1897	108.5097	2	15	-	0-W00577	08/23/75	16	27	-	-	-	-	-	9	1	7	4	6	-	-	-	2	3	2	2	3	-	1	-	-	-	-	3.00
56	44.1542	108.5333	2	15	-	0-W00578	08/23/75	16	26	-	-	-	-	-	8	1	7	4	6	-	-	-	2	3	1	2	3	-	1	-	-	-	-	3.40
56	44.1728	108.5392	2	15	-	0-W00579	08/23/75	16	26	-	-	-	-	-	8	1	7	4	6	-	-	-	2	3	2	2	3	-	1	-	-	-	-	4.80
56	44.2075	108.5289	2	15	-	0-W00580	08/23/75	16	26	-	-	-	-	-	14	1	7	4	6	-	-	-	2	3	3	2	3	-	1	-	-	-	-	2.70
56	44.2039	108.5319	2	15	-	0-W00581	08/23/75	16	26	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	3	2	3	-	1	-	-	-	-	3.20
56	44.1950	108.5650	2	15	-	0-W00582	08/23/75	17	26	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	2	2	3	-	1	-	-	-	-	3.10
56	44.1931	108.5875	2	15	-	0-W00583	08/23/75	17	26	-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	3	2	3	-	1	-	-	-	-	3.90
56	44.2250	108.6203	2	15	-	0-W00584	08/23/75	17	26	-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	3	2	4	-	1	-	-	-	-	2.80
56	44.2236	108.6222	2	15	-	0-W00585	08/23/75	17	26	-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	2	2	4	-	1	-	-	-	-	2.60
56	44.2039	108.6078	2	15	-	0-W00586	08/23/75	17	26	-	-	-	-	-	11	1	7	4	6	-	-	-	2	3	3	2	4	-	1	-	-	-	-	2.60
56	44.2081	108.6667	2	15	-	0-W00587	08/23/75	18	26	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	2	2	4	-	1	-	-	-	-	2.20
56	44.2106	108.6992	2	15	-	0-W00588	08/23/75	18	26	-	-	-	-	-	12	1	7	4	6	-	-	-	2	3	2	2	4	-	1	-	-	-	-	2.10
56	44.1958	108.7186	2	15	-	0-W00589	08/23/75	18	26	-	-	-	-	-	6	1	7	4	6	-	-	-	2	4	2	2	4	-	1	-	-	-	-	2.80
56	44.1361	108.7708	2	15	-	0-W00590	08/23/75	18	26	-	-	-	-	-	14	1	7	4	6	-	-	-	2	3	3	2	4	-	1	-	-	-	-	3.10

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.0361-108.4564-2-15-						0-W00538	-5	-5	-5	14	-20	-15	8	-10	-15	2	21
56-44.0942-108.4606-2-15-						0-W00540	-5	-5	-5	16	-20	-15	6	-10	-15	2	27
56-44.0933-108.4603-2-15-						0-W00541	-5	-5	-5	15	-20	-15	5	-10	-15	1	12
56-44.0889-108.4061-2-15-						0-W00542	-5	-5	-5	26	-20	15	13	-10	-15	2	18
56-44.0869-108.4061-2-15-						0-W00543	-5	-5	-5	-10	-20	-15	5	-10	-15	1	16
56-44.0119-108.5008-2-15-						0-W00544	-5	-5	-5	25	-20	-15	10	-10	-15	2	29
56-44.0200-108.5385-2-15-						0-W00545	-5	-5	-5	17	-20	-15	7	-10	-15	2	21
56-44.0203-108.5544-2-15-						0-W00546	-5	-5	-5	11	-20	-15	7	-10	-15	1	17
56-44.0244-108.5908-2-15-						0-W00548	-5	-5	-5	-10	-20	-15	5	-10	-15	2	21
56-44.0236-108.6158-2-15-						0-W00549	-5	-5	-5	-10	-20	-15	7	-10	-15	1	12
56-44.0417-108.6111-2-15-						0-W00550	-5	-5	-5	17	-20	-15	13	-10	-15	1	19
56-44.0406-108.6122-2-15-						0-W00551	-5	-5	-5	14	-20	-15	6	-10	-15	2	14
56-44.0050-108.6917-2-15-						0-W00552	-5	-5	-5	20	-20	-15	10	-10	-15	2	21
56-44.0478-108.6833-2-15-						0-W00553	-5	-5	-5	19	-20	-15	11	-10	-15	2	26
56-44.0481-108.7161-2-15-						0-W00554	-5	-5	-5	14	-20	-15	7	-10	-15	1	15
56-44.0550-108.7161-2-15-						0-W00555	-5	-5	-5	-10	-20	-15	6	-10	-15	2	32
56-44.0689-108.7347-2-15-						0-W00556	-5	-5	-5	17	-20	-15	9	-10	-15	2	32
56-44.0889-108.7611-2-15-						0-W00557	-5	-5	-5	16	-20	-15	11	-10	-15	2	22
56-44.1419-108.6494-2-15-						0-W00558	-5	-5	-5	25	-20	-15	7	-10	-15	2	44
56-44.1561-108.6697-2-15-						0-W00559	-5	-5	-5	12	-20	-15	11	-10	-15	1	20
56-44.1456-108.7211-2-15-						0-W00560	-5	-5	-5	13	-20	-15	-5	-10	-15	1	12
56-44.1469-108.6861-2-15-						0-W00561	-5	-5	-5	15	-20	-15	6	-10	-15	1	17
56-44.1447-108.6844-2-15-						0-W00562	-5	-5	-5	16	-20	-15	5	-10	-15	2	19
56-44.1628-108.6864-2-15-						0-W00563	-5	-5	-5	10	-20	-15	8	-10	-15	1	12
56-44.1817-108.6625-2-15-						0-W00564	-5	-5	-5	10	-20	-15	8	-10	-15	2	24
56-44.1814-108.6497-2-15-						0-W00565	-5	-5	-5	20	-20	-15	7	-10	-15	1	19
56-44.1917-108.6514-2-15-						0-W00566	-5	5	-5	15	-20	-15	-5	-10	-15	2	24
56-44.1592-108.3786-2-15-						0-W00567	-5	-5	-5	12	-20	-15	10	-10	-15	1	28
56-44.1394-108.3942-2-15-						0-W00568	-5	-5	-5	14	-20	-15	-5	-10	-15	2	29
56-44.1686-108.4142-2-15-						0-W00569	-5	-5	-5	26	-20	15	7	-10	-15	1	28
56-44.1903-108.4361-2-15-						0-W00570	-5	-5	-5	12	-20	-15	-5	-10	-15	2	25
56-44.2272-108.4311-2-15-						0-W00571	-5	-5	-5	16	-20	-15	5	-10	-15	1	24
56-44.2153-108.4397-2-15-						0-W00572	-5	12	-5	-10	-20	-15	9	-10	-15	1	17
56-44.2125-108.4433-2-15-						0-W00573	-5	-5	-5	14	-20	-15	5	-10	-15	-1	16
56-44.2039-108.4683-2-15-						0-W00574	-5	-5	-5	15	-20	-15	-5	-10	-15	1	17
56-44.2058-108.4928-2-15-						0-W00575	-5	-5	-5	10	-20	-15	8	-10	-15	-1	15
56-44.2039-108.5061-2-15-						0-W00576	-5	-5	-5	12	-20	-15	9	-10	-15	1	17
56-44.1897-108.5097-2-15-						0-W00577	-5	-5	-5	18	-20	-15	6	-10	-15	1	21
56-44.1542-108.5333-2-15-						0-W00578	-5	-5	-5	-10	-20	-15	6	-10	-15	1	16
56-44.1728-108.5392-2-15-						0-W00579	-5	-5	-5	11	-20	-15	6	-10	-15	2	25
56-44.2075-108.5289-2-15-						0-W00580	-5	-5	-5	13	-20	-15	7	-10	-15	2	15
56-44.2039-108.5319-2-15-						0-W00581	-5	-5	-5	14	-20	-15	-5	-10	-15	1	19
56-44.1950-108.5650-2-15-						0-W00582	-5	-5	-5	16	-20	-15	9	-10	-15	1	18
56-44.1931-108.5875-2-15-						0-W00583	-5	-5	-5	10	-20	-15	-5	-10	-15	1	15
56-44.2250-108.6203-2-15-						0-W00584	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	18
56-44.2236-108.6222-2-15-						0-W00585	-5	-5	-5	14	-20	-15	10	-10	-15	1	15
56-44.2039-108.6078-2-15-						0-W00586	-5	-5	-5	22	-20	-15	11	-10	-15	1	22
56-44.2081-108.6667-2-15-						0-W00587	-5	-5	-5	14	-20	-15	-5	-10	-15	1	14
56-44.2106-108.6992-2-15-						0-W00588	-5	-5	-5	10	-20	-15	-5	-10	-15	1	16
56-44.1958-108.7186-2-15-						0-W00589	-5	-5	-5	11	-20	-15	7	-10	-15	1	20
56-44.1361-108.7708-2-15-						0-W00590	-5	-5	-5	24	-20	-15	12	-10	-15	2	29

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.0361-	108.4564-2-15-				0-W00539	35990	-0.13	529	9219	50	-38	8.4	39	3.6	5	1.4	14290	7.8	15750	-16	0.3
56-	44.0942-	108.4606-2-15-				0-W00540	35390	-0.13	400	45700	45	79	4.7	36	2.8	3	1.0	10020	5.4	15930	-15	0.2
56-	44.0933-	108.4603-2-15-				0-W00541	29910	-0.12	520	5761	44	-29	5.6	26	1.9	3	1.1	9497	9.5	9595	-14	0.2
56-	44.0389-	108.4061-2-15-				0-W00542	31300	-0.13	535	9306	56	103	7.2	36	2.6	5	1.3	13300	20.3	13090	-15	0.4
56-	44.0869-	108.4061-2-15-				0-W00543	22700	-0.11	470	6008	45	-34	4.5	33	1.6	4	1.2	9032	20.1	10750	-14	0.4
56-	44.0119-	108.5008-2-15-				0-W00544	55520	-0.19	791	21210	55	-59	11.1	50	3.5	4	1.5	20720	6.7	15560	-20	0.2
56-	44.0200-	108.5386-2-15-				0-W00545	33710	-0.16	534	22430	74	-42	6.2	47	3.3	4	1.7	16100	23.6	12010	-14	0.7
56-	44.0203-	108.5544-2-15-				0-W00546	32080	-0.12	500	19220	62	-48	5.7	41	2.4	4	1.3	13000	20.2	11820	-15	0.4
56-	44.0244-	108.5908-2-15-				0-W00548	35500	-0.14	522	23210	60	118	7.1	57	2.4	5	1.4	14430	21.7	12230	-16	0.5
56-	44.0236-	108.6158-2-15-				0-W00549	29670	-0.12	485	22340	49	258	4.4	25	2.0	4	1.1	8788	9.9	11380	-12	0.3
56-	44.0417-	108.6111-2-15-				0-W00550	33100	-0.17	505	4460	64	-34	8.8	53	4.0	4	1.5	17550	17.9	12140	-20	0.5
56-	44.0406-	108.6122-2-15-				0-W00551	30940	-0.12	477	4974	61	-36	6.3	49	2.4	4	1.3	14540	22.6	9155	40	0.4
56-	44.0050-	108.6917-2-15-				0-W00552	37170	-0.14	670	20920	60	87	8.2	62	2.1	4	1.4	16790	19.1	12090	49	0.4
56-	44.0478-	108.6833-2-15-				0-W00553	36500	-0.14	501	22250	52	-42	4.9	32	3.2	4	1.1	10640	12.9	13420	28	0.4
56-	44.0481-	108.7161-2-15-				0-W00554	27250	-0.12	413	21150	52	74	4.7	34	2.8	4	1.2	10370	16.0	13360	-14	0.4
56-	44.0550-	108.7161-2-15-				0-W00555	32390	-0.12	334	35370	41	1987	4.8	27	2.6	3	1.0	9906	8.4	13360	-16	0.2
56-	44.0689-	108.7347-2-15-				0-W00556	38350	-0.15	459	43570	46	506	5.8	31	3.4	3	1.1	12040	5.8	14010	36	0.2
56-	44.0389-	108.7611-2-15-				0-W00557	43790	-0.17	589	9349	61	69	8.7	32	3.9	4	1.5	15440	8.9	16720	-20	0.4
56-	44.1419-	108.6494-2-15-				0-W00558	50320	-0.05	517	22020	55	-60	11.9	62	2.9	4	1.4	22210	10.0	14210	27	0.3
56-	44.1561-	108.6597-2-15-				0-W00559	30790	-0.04	555	9003	57	-39	5.6	33	1.7	4	1.4	11590	17.7	14590	26	0.4
56-	44.1456-	108.7211-2-15-				0-W00560	30530	-0.03	537	8275	52	-37	5.5	42	1.9	5	1.5	11670	24.8	13920	33	0.5
56-	44.1469-	108.6861-2-15-				0-W00561	32190	-0.12	550	7444	49	-46	6.1	38	2.5	4	1.2	11770	8.1	13980	28	0.4
56-	44.1447-	108.6844-2-15-				0-W00562	32990	-0.12	560	7809	41	-46	5.7	28	2.2	4	1.1	12030	7.8	12300	-14	0.3
56-	44.1628-	108.6864-2-15-				0-W00563	27330	-0.13	710	8303	61	-38	4.8	34	2.1	5	1.2	11370	17.9	11140	-14	0.4
56-	44.1817-	108.6625-2-15-				0-W00564	35490	-0.17	453	23540	70	-45	8.9	62	3.2	4	1.5	16100	15.7	14310	51	0.4
56-	44.1814-	108.6497-2-15-				0-W00565	28600	-0.13	451	25060	59	-49	6.6	49	-0.9	4	1.2	12850	12.4	10810	51	0.4
56-	44.1917-	108.6514-2-15-				0-W00566	37000	-0.13	447	16800	74	-48	6.8	48	2.2	5	1.3	13130	17.3	14430	-18	0.3
56-	44.1592-	108.3786-2-15-				0-W00567	33520	-0.14	546	16710	50	-49	5.2	34	1.4	4	1.3	11080	11.4	14910	-13	0.3
56-	44.1394-	108.3942-2-15-				0-W00568	33080	-0.15	501	14570	63	-43	8.7	62	3.1	4	1.5	15750	18.7	12650	-18	0.5
56-	44.1686-	108.4142-2-15-				0-W00569	30370	-0.13	554	17120	61	-53	6.1	53	2.6	5	1.6	11570	20.5	13150	-14	0.5
56-	44.1903-	108.4361-2-15-				0-W00570	27640	-0.12	552	13750	64	-48	6.0	47	1.5	5	1.3	12120	21.8	13310	37	0.4
56-	44.2272-	108.4311-2-15-				0-W00571	38860	-0.15	620	17080	65	-48	6.1	46	2.8	5	1.4	12660	20.4	14810	42	0.4
56-	44.2153-	108.4397-2-15-				0-W00572	25410	-0.22	3309	20060	185	-46	8.8	143	3.0	9	2.4	24330	71.6	11690	155	1.3
56-	44.2125-	108.4433-2-15-				0-W00573	28940	-0.12	435	13980	54	-51	5.6	49	2.1	4	1.3	10520	15.1	12320	-14	0.4
56-	44.2039-	108.4683-2-15-				0-W00574	27870	-0.13	669	15690	93	-49	5.3	63	1.4	7	1.7	11990	37.0	11280	51	0.6
56-	44.2058-	108.4928-2-15-				0-W00575	27470	-0.12	472	19710	44	-48	4.8	33	1.5	4	1.0	8562	8.9	13320	-15	0.4
56-	44.2039-	108.5061-2-15-				0-W00576	31150	-0.15	536	13340	64	-40	7.3	65	2.3	4	1.4	15790	21.6	10930	43	0.5
56-	44.1897-	108.5097-2-15-				0-W00577	33970	-0.12	494	12200	57	-48	7.3	55	2.6	4	1.3	13720	15.2	14290	46	0.4
56-	44.1542-	108.5333-2-15-				0-W00578	27430	-0.11	520	10920	55	-43	4.8	45	1.6	5	1.3	10900	21.1	11260	38	0.5
56-	44.1728-	108.5392-2-15-				0-W00579	34020	-0.16	772	20460	90	-45	5.9	65	2.1	6	1.7	13260	33.8	11550	54	0.6
56-	44.2075-	108.5289-2-15-				0-W00580	31940	-0.15	468	14740	55	-42	7.1	45	2.8	4	1.4	15080	13.0	13020	-17	0.4
56-	44.2039-	108.5319-2-15-				0-W00581	30890	-0.12	533	12170	60	-44	7.1	49	2.5	4	1.4	13770	18.5	11900	53	0.5
56-	44.1950-	108.5650-2-15-				0-W00582	30720	-0.12	492	13000	53	166	5.6	46	2.1	4	1.3	11690	15.4	12280	-16	0.4
56-	44.1931-	108.5875-2-15-				0-W00583	28800	-0.03	592	11060	74	-45	6.0	55	2.1	5	1.7	12480	25.8	11770	35	0.5
56-	44.2250-	108.6203-2-15-				0-W00584	35860	-0.13	485	16560	56	-43	5.9	36	2.7	4	1.2	12330	11.3	13510	-11	0.3
56-	44.2236-	108.6222-2-15-				0-W00585	29990	-0.15	455	13290	56	-38	6.9	43	2.3	4	1.3	13930	12.7	13980	-18	0.4
56-	44.2039-	108.6078-2-15-				0-W00586	32700	-0.13	492	14380	46	-51	5.9	41	2.3	4	1.2	12630	9.2	12980	29	0.3
56-	44.2081-	108.6567-2-15-				0-W00587	26060	-0.11	358	15910	41	-49	4.9	35	2.0	3	1.1	10060	7.7	11650	-12	0.3
56-	44.2106-	108.6992-2-15-				0-W00588	30290	-0.12	445	17910	44	-45	5.2	32	1.8	4	1.0	8932	7.9	13270	-13	0.3
56-	44.1958-	108.7186-2-15-				0-W00589	38840	-0.17	447	16000	58	91	9.0	53	3.3	4	1.4	17010	13.7	14570	-21	0.4
56-	44.1361-	108.7708-2-15-				0-W00590	53040	-0.17	689	11110	74	-71	10.9	88	3.2	4	1.5	21600	12.6	14900	-16	0.4

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

DOE SAMPLE NUMBER						NSL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	44.0361-	108.4564-2-15-	0-	W00539			3729	249	1391	51	-3	5.2	6.0	-140	-1	-1	7.9	2555	59	3.5	78	0.342
56-	44.0942-	108.4606-2-15-	0-	W00540			32500	227	2026	-16	-3	3.8	3.2	-148	-1	-1	6.7	2293	54	-2.1	-62	0.343
56-	44.0933-	108.4403-2-15-	0-	W00541			4209	241	1833	39	-3	3.4	4.6	-132	-1	-1	6.6	1358	30	2.3	75	0.288
56-	44.0889-	108.4061-2-15-	0-	W00542			7193	262	2844	64	-3	4.7	4.4	-142	-1	-1	9.5	2851	44	4.7	53	0.347
56-	44.0869-	108.4061-2-15-	0-	W00543			6686	198	1922	-16	-2	3.5	4.9	-116		-1	8.1	2115	34	3.4	38	0.370
56-	44.0119-	108.5008-2-15-	0-	W00544			19140	355	6033	-24	-4	5.7	5.6	-209	-1	-1	9.3	3085	69	4.2	271	0.323
56-	44.0200-	108.5386-2-15-	0-	W00545			17730	208	4491	52	-4	5.6	6.9	-139	-1	-1	11.9	2838	43	4.1	97	0.252
56-	44.0203-	108.5544-2-15-	0-	W00546			15150	197	4294	42	-3	4.4	5.0	-132	-1		9.3	2795	40	4.2	38	0.323
56-	44.0244-	108.5908-2-15-	0-	W00548			19040	243	6178	-18	-3	5.3	6.9	193	-1	-1	9.9	3006	55	3.1	66	0.384
56-	44.0236-	108.6158-2-15-	0-	W00549			12700	212	5320	32	-3	3.1	3.0	271			5.5	2126	35	-1.6	55	0.418
56-	44.0417-	108.6111-2-15-	0-	W00550			6448	179	2524	43	-4	4.1	-2.0	-131	-1	-1	10.3	2743	47	4.0	59	0.282
56-	44.0406-	108.6122-2-15-	0-	W00551			5444	162	2439	45	-3	4.9	-1.5	-112	-1	1	9.5	2853	43	4.4	35	0.347
56-	44.0050-	108.6917-2-15-	0-	W00552			15580	247	6132	43	-3	6.1	5.1	439	-1	-1	9.9	2384	54	3.0	54	0.293
56-	44.0478-	108.6833-2-15-	0-	W00553			17120	248	3861	32	-3	4.3	4.7	-159	-1	-1	7.9	2440	49	3.7	57	0.354
56-	44.0481-	108.7161-2-15-	0-	W00554			13940	217	2398	40	-3	4.1	5.3	-132	-1	-1	6.7	2243	39	2.2	56	0.418
56-	44.0550-	108.7161-2-15-	0-	W00555			24700	241	8282	-17	-3	3.5	4.1	414	-1		5.5	1903	43	-1.5	42	0.418
56-	44.0689-	108.7347-2-15-	0-	W00556			25450	336	7150	-17	-3	3.9	3.2	372	-1		6.0	2133	50	-1.8	63	0.400
56-	44.0989-	108.7611-2-15-	0-	W00557			8404	213	5526	61	-4	6.1	-2.0	-157	-1	-1	10.0	2922	44	-2.0	93	0.240
56-	44.1419-	108.6494-2-15-	0-	W00558			14980	350	5272	60	-1	7.2	4.7	-203	-1	-1	9.9	3085	56	2.7	93	0.343
56-	44.1561-	108.6697-2-15-	0-	W00559			9415	220	3529	32	-1	3.7	5.3	-144	-1	-1	10.7	2845	34	3.2	-18	0.280
56-	44.1456-	108.7211-2-15-	0-	W00560			8203	194	3265	39	-1	4.1	4.7	-135	-1	1	9.9	2851	37	3.6	42	0.354
56-	44.1469-	108.6861-2-15-	0-	W00561			6896	180	3514	32	-3	4.1	6.7	-127	-1	-1	7.2	2373	40	-1.4	50	0.319
56-	44.1447-	108.6844-2-15-	0-	W00562			5453	180	3614	44	-3	3.9	5.0	-126		1	7.1	2305	38	-1.5	61	0.324
56-	44.1629-	108.6864-2-15-	0-	W00563			6821	246	2918	33	-3	3.6	4.8	-146	-1	-1	8.8	3121	39	4.5	59	0.330
56-	44.1817-	108.6625-2-15-	0-	W00564			19010	324	3735	67	-4	6.0	6.7	-173	-1	-1	14.9	2548	43	5.4	96	0.201
56-	44.1814-	108.6497-2-15-	0-	W00565			15250	449	2513	49	-3	4.2	6.7	-197	-1	-1	13.3	1942	31	4.6	54	0.225
56-	44.1917-	108.6514-2-15-	0-	W00566			14620	250	3262	57	-3	4.9	7.2	-148	-1	-1	18.2	2697	44	5.8	52	0.198
56-	44.1592-	108.3786-2-15-	0-	W00567			15270	271	4950	39	-3	3.7	4.9	-171	-1	-1	8.4	2433	35	2.3	-26	0.321
56-	44.1394-	108.3942-2-15-	0-	W00568			12810	260	4503	57	-4	5.8	-2.1	-152	-1	1	11.2	2540	34	5.4	63	0.277
56-	44.1686-	108.4142-2-15-	0-	W00569			14450	307	4410	37	-3	4.6	7.3	-161	-1	-1	13.0	3283	33	4.1	46	0.277
56-	44.1903-	108.4361-2-15-	0-	W00570			12790	239	3871	36	-3	4.3	6.1	-135	-1	1	13.0	2550	35	4.1	49	0.277
56-	44.2272-	108.4311-2-15-	0-	W00571			14810	289	4744	45	-3	4.8	6.0	-176	-1	-1	12.2	3231	44	6.0	43	0.295
56-	44.2153-	108.4397-2-15-	0-	W00572			12010	482	2947	42	-5	9.8	20.2	-212	-1	1	54.8	5915	41	11.5	60	0.150
56-	44.2125-	108.4433-2-15-	0-	W00573			13700	253	4314	-17	-3	3.9	5.5	-148	-1	-1	9.4	2316	25	2.6	38	0.319
56-	44.2039-	108.4683-2-15-	0-	W00574			12230	248	4205	46	-3	4.6	8.6	-141	-1	1	23.3	3255	33	7.0	26	0.210
56-	44.2058-	108.4928-2-15-	0-	W00575			12060	305	4579	-15	-3	3.0	4.4	-178	-1	-1	6.7	1956	24	-2.1	36	0.328
56-	44.2039-	108.5061-2-15-	0-	W00576			9461	237	4027	-20	-3	5.5	5.5	-139	-1	-1	12.3	2698	35	4.5	49	0.260
56-	44.1897-	108.5097-2-15-	0-	W00577			11010	234	4455	43	-3	4.8	5.0	-139	-1	-1	8.9	2452	38	4.3	43	0.337
56-	44.1542-	108.5333-2-15-	0-	W00578			7594	204	3664	48	-3	3.8	6.9	-124	-1		10.3	2217	28	4.0	46	0.330
56-	44.1728-	108.5392-2-15-	0-	W00579			14330	318	3994	-19	-4	5.2	9.2	-179	-1	-1	17.9	3244	39	6.2	50	0.268
56-	44.2075-	108.5289-2-15-	0-	W00580			11590	249	4319	-21	-3	5.1	5.8	-149	-1	-1	10.4	2479	34	5.5	69	0.260
56-	44.2039-	108.5319-2-15-	0-	W00581			11260	233	3735	53	-3	4.7	5.7	-133	-1	-1	12.7	2752	31	5.2	24	0.252
56-	44.1950-	108.5650-2-15-	0-	W00582			10670	218	4769	-17	-3	4.3	6.4	-137	-1	-1	10.0	2486	35	3.5	77	0.310
56-	44.1931-	108.5875-2-15-	0-	W00583			9016	217	3742	43	-1	4.4	5.7	-128	-1	1	14.5	2792	33	4.0	44	0.269
56-	44.2250-	108.6203-2-15-	0-	W00584			13970	274	4007	40	-3	4.3	6.5	-160	-1	-1	8.6	2629	36	2.3	51	0.326
56-	44.2236-	108.6222-2-15-	0-	W00585			10980	214	3967	43	-3	4.7	5.9	-134	-1	-1	9.0	2431	33	2.7	54	0.289
56-	44.2039-	108.6078-2-15-	0-	W00586			10270	233	4571	60	-3	4.3	4.7	-148	-1	-1	8.7	2640	33	4.2	47	0.299
56-	44.2081-	108.6667-2-15-	0-	W00587			12050	255	3771	-16	-3	3.3	4.3	-148	-1		6.7	1769	23	-1.3	42	0.328
56-	44.2106-	108.6992-2-15-	0-	W00588			12980	264	4435	66	-3	3.3	-1.6	-161	-1		6.5	1905	28	-1.9	48	0.323
56-	44.1958-	108.7186-2-15-	0-	W00589			14570	223	3450	-22	-4	5.0	-2.1	-150	-1	-1	9.7	2567	46	-2.0	105	0.289
56-	44.1361-	108.7708-2-15-	0-	W00590			11140	468	7007	49	-4	7.2	4.8	-214	-1	-1	11.2	2946	62	3.1	77	0.277

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	44.1606-	108.7661-	2-	15-		0-W00591-	09/23/76-	18-	24-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	4-	-1-	-	-	-	-	3.10
56-	44.1778-	108.7806-	2-	15-		0-W00592-	09/23/76-	18-	26-		-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	2-	3-	3-	2-	4-	-1-	-	-	-	-	3.10
56-	44.2125-	108.8167-	2-	15-		0-W00593-	09/25/76-	13-	32-		-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	2-	3-	3-	2-	1-	-1-	-	-	-	-	3.30
56-	44.2028-	108.8403-	2-	15-		0-W00594-	09/25/76-	13-	32-		-	-	-	-	-	14-	1-	7-	4-	5-	-	-	-	2-	3-	2-	2-	1-	-1-	-	-	-	-	3.60
56-	44.2181-	108.9458-	2-	15-		0-W00595-	09/25/76-	13-	30-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-1-	-	-	-	-	2.50
56-	44.1972-	108.9806-	2-	15-		0-W00596-	09/25/76-	13-	30-		-	-	-	-	-	16-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-1-	-	-	-	-	2.10
56-	44.1972-	108.9361-	2-	15-		0-W00597-	09/25/76-	13-	30-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-1-	-	-	-	-	2.30
56-	44.1861-	108.9139-	2-	15-		0-W00598-	09/25/76-	14-	30-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-1-	-	-	-	-	2.60
56-	44.1653-	108.9028-	2-	15-		0-W00599-	09/25/76-	14-	32-		-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.90
56-	44.1542-	108.9333-	2-	15-		0-W00600-	09/25/76-	14-	32-		-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.10
56-	44.1556-	108.9625-	2-	15-		0-W00601-	09/25/76-	14-	32-		-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	2-	3-	2-	2-	1-	-1-	-	-	-	-	2.90
56-	44.6178-	108.2878-	2-	15-		0-W00602-	10/12/76-	10-	25-		-	-	-	-	-	9-	1-	7-	5-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.50
56-	44.5931-	108.2889-	2-	15-		0-W00603-	10/12/76-	11-	23-		-	-	-	-	-	12-	1-	7-	5-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.50
56-	44.5919-	108.2900-	2-	15-		0-W00604-	10/12/76-	11-	23-		-	-	-	-	-	12-	1-	7-	5-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.50
56-	44.5842-	108.3139-	2-	15-		0-W00605-	10/12/76-	11-	23-		-	-	-	-	-	9-	1-	7-	5-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.20
56-	44.5289-	108.3222-	2-	15-		0-W00606-	10/12/76-	12-	30-		-	-	-	-	-	12-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	2-	-1-	-	-	-	-	3.20
56-	44.5297-	108.3211-	2-	15-		0-W00607-	10/12/76-	12-	30-		-	-	-	-	-	12-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	2.20
56-	44.5300-	108.3172-	2-	15-		0-W00608-	10/12/76-	12-	30-		-	-	-	-	-	15-	1-	7-	5-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.10
56-	44.5583-	108.3322-	2-	15-		0-W00609-	10/12/76-	13-	32-		-	-	-	-	-	15-	1-	7-	5-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.00
56-	44.6100-	108.3956-	2-	15-		0-W00610-	10/12/76-	13-	32-		-	-	-	-	-	15-	1-	7-	-	-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.40
56-	44.5839-	108.4206-	2-	15-		0-W00611-	10/12/76-	14-	30-		-	-	-	-	-	12-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	2.30
56-	44.3756-	108.2000-	2-	12-		0-W00612-	10/13/76-	10-	25-	14.0-	-	-	6.3-	600-	-	6-	1-	7-	5-	6-	3-	3-	1-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.00
56-	44.3092-	108.0933-	2-	15-		0-W00615-	10/13/76-	13-	31-		-	-	-	-	-	12-	1-	7-	5-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.20
56-	44.3100-	108.1272-	2-	15-		0-W00616-	10/13/76-	13-	31-		-	-	-	-	-	9-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.00
56-	44.2867-	108.0800-	2-	15-		0-W00617-	10/13/76-	13-	31-		-	-	-	-	-	12-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.70
56-	44.0678-	108.1017-	2-	15-		0-W00618-	10/14/76-	9-	20-		-	-	-	-	-	9-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	2.60
56-	44.1042-	108.0428-	2-	15-		0-W00619-	10/14/76-	9-	20-		-	-	-	-	-	9-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	2.20
56-	44.1069-	108.0394-	2-	15-		0-W00620-	10/14/76-	10-	24-		-	-	-	-	-	9-	1-	7-	5-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.30
56-	44.1908-	108.0661-	2-	15-		0-W00621-	10/14/76-	10-	24-		-	-	-	-	-	9-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	2.90
56-	44.2094-	108.1117-	2-	15-		0-W00622-	10/14/76-	11-	25-		-	-	-	-	-	9-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	7.80
56-	44.1994-	108.0833-	2-	15-		0-W00623-	10/14/76-	11-	25-		-	-	-	-	-	6-	1-	7-	5-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	2.90
56-	44.2375-	108.2006-	2-	15-		0-W00624-	10/14/76-	12-	27-		-	-	-	-	-	9-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	2.60
56-	44.2267-	108.1806-	2-	15-		0-W00625-	10/14/76-	12-	27-		-	-	-	-	-	18-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	4.40
56-	44.2250-	108.1800-	2-	15-		0-W00626-	10/14/76-	12-	27-		-	-	-	-	-	15-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.20
56-	44.1917-	108.2022-	2-	15-		0-W00627-	10/14/76-	13-	28-		-	-	-	-	-	12-	1-	4-	4-	4-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	2.80
56-	44.1894-	108.2044-	2-	15-		0-W00628-	10/14/76-	13-	28-		-	-	-	-	-	15-	1-	7-	5-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	2.80
56-	44.1872-	108.2411-	2-	15-		0-W00629-	10/14/76-	13-	28-		-	-	-	-	-	12-	1-	7-	4-	6-	-1-	-	3-	3-	2-	3-	1-	-1-	-	-	-	-	3.40
56-	44.7478-	109.1744-	2-	15-		0-W00630-	05/01/77-	9-	22-		-	-	-	-	-	7-	1-	1-	4-	3-	-1-	-	2-	3-	2-	4-	1-	-1-	-	-	-	-	3.10
56-	44.9461-	109.7736-	2-	12-		0-W00631-	05/26/77-	12-	12-	8.5-	-	-	7.6-	18-	-	9-	3-	7-	4-	6-	4-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	6.40
56-	44.9900-	109.8564-	2-	12-		0-W00632-	05/26/77-	13-	11-	6.0-	-	-	7.5-	130-	-	2-	1-	1-	4-	6-	3-	2-	2-	2-	1-	3-	4-	2-	-1-	-	-	-	-	1.20
56-	44.9928-	109.8508-	2-	12-		0-W00633-	05/26/77-	14-	16-	4.5-	-	-	7.1-	37-	-	13-	1-	7-	4-	6-	3-	3-	1-	2-	1-	4-	3-	2-	-1-	-	-	-	-	2.40
56-	44.9792-	109.8447-	2-	12-		0-W00634-	05/26/77-	14-	16-	7.0-	-	-	8.0-	90-	-	9-	1-	1-	4-	6-	3-	2-	1-	2-	1-	4-	4-	2-	-1-	-	-	-	-	1.40
56-	44.9869-	109.8386-	2-	12-		0-W00635-	05/26/77-	15-	12-	5.0-	-	-	7.6-	41-	-	13-	3-	7-	4-	6-	4-	3-	1-	2-	1-	4-	3-	2-	-1-	-	-	-	-	1.30
56-	44.9681-	109.8250-	2-	12-		0-W00636-	05/26/77-	15-	13-	6.0-	-	-	7.9-	55-	-	6-	3-	7-	4-	6-	3-	3-	1-	2-	1-	3-	2-	2-	-1-	-	-	-	-	1.30
56-	44.9708-	109.8181-	2-	12-		0-W00637-	05/26/77-	15-	13-	6.5-	-	-	7.9-	44-	-	4-	3-	7-	4-	6-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.30
56-	44.9506-	109.8000-	2-	12-		0-W00638-	05/26/77-	16-	13-	7.5-	-	-	7.2-	105-	-	11-	3-	7-	4-	6-	3-	2-	2-	2-	1-	4-	2-	2-	-1-	-	-	-	-	1.10
56-	44.9269-	109.7536-	2-	15-		0-W00639-	05/26/77-	16-	13-		-C-	-	-	-	-	11-	4-	7-	4-	6-	-	-1-	-	-	-1-	4-	1-	2-	-1-	-	-	-	-	1.10
56-	44.9436-	109.5811-	2-	12-		0-W00643-	05/27/77-	12-	4-	3.0-	-	-	7.6-	39-	-	18-	3-	2-	4-	6-	3-	2-	1-	2-	1-	4-	4-	2-	-1-	-	-	-	-	2.70
56-	44.9458-	109.5811-	2-	12-		0-W00644-	05/27/77-	13-	7-	3.0-	-	-	6.9-	17-	-	22-	3-	2-	4-	6-	3-	3-	2-	1-	2-	1-	3-	4-	2-	-1-	-	-	-	-	4.00
56-	44.9381-	109.5997-	2-	12-		0-W00645-	05/27/77-	13-	6-	2.5-	-	-	7.4-	22-	-	9-	3-	4-	5-	6-	3-	3-	1-	2-	1-	3-	5-	2-	-1-	-	-	-	-	3.30
56-	44.9406-	109.6164-	2-	12-		0-W00646-	05/27/77-	14-	6-	3.0-	-	-	7.6-	200-	-	15-	3-	7-	4-	6-	3-	3-	1-	2-	1-	4-	2-	2-	-1-	-	-	-	-	3.30

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-	44.1606-	108.7661-	2-	15-	0-	W00591	-5	-5	-5	18	-20	-15	7	-10	-15	2	26
56-	44.1778-	108.7806-	2-	15-	0-	W00592	-5	-5	-5	20	-20	-15	9	-10	-15	2	32
56-	44.2125-	108.8167-	2-	15-	0-	W00593	-5	-5	-5	14	-20	-15	-5	-10	-15	1	17
56-	44.2028-	108.8403-	2-	15-	0-	W00594	-5	-5	-5	19	-20	-15	7	-10	-15	2	26
56-	44.2181-	108.9458-	2-	15-	0-	W00595	-5	-5	-5	16	-20	-15	-5	-10	-15	2	19
56-	44.1972-	108.9806-	2-	15-	0-	W00596	-5	-5	-5	13	-20	-15	7	-10	-15	2	14
56-	44.1972-	108.9361-	2-	15-	0-	W00597	-5	-5	-5	16	-20	-15	-5	-10	-15	2	17
56-	44.1861-	108.9139-	2-	15-	0-	W00598	-5	-5	-5	13	-20	-15	7	-10	-15	2	15
56-	44.1653-	108.9028-	2-	15-	0-	W00599	-5	-5	-5	20	-20	-15	5	-10	-15	2	20
56-	44.1542-	108.9333-	2-	15-	0-	W00600	-5	-5	-5	13	-20	-15	5	-10	-15	2	23
56-	44.1556-	108.9625-	2-	15-	0-	W00601	-5	-5	-5	22	-20	-15	8	-10	-15	2	15
56-	44.6178-	108.2878-	2-	15-	0-	W00602	-5	-5	-5	22	-20	-15	11	-10	-15	2	23
56-	44.5931-	108.2889-	2-	15-	0-	W00603	-5	-5	-5	12	-20	-15	9	-10	-15	2	36
56-	44.5919-	108.2900-	2-	15-	0-	W00604	-5	-5	-5	24	-20	-15	-5	-10	-15	2	31
56-	44.5842-	108.3139-	2-	15-	0-	W00605	-5	-5	-5	16	-20	-15	5	-10	-15	2	20
56-	44.5289-	108.3222-	2-	15-	0-	W00606	-5	-5	-5	18	-20	-15	5	-10	-15	2	27
56-	44.5297-	108.3211-	2-	15-	0-	W00607	-5	-5	-5	17	-20	-15	6	-10	-15	2	18
56-	44.5300-	108.3172-	2-	15-	0-	W00608	-5	-5	-5	14	-20	-15	9	-10	-15	2	23
56-	44.5583-	108.3322-	2-	15-	0-	W00609	-5	-5	-5	12	-20	-15	9	-10	-15	2	27
56-	44.6100-	108.3956-	2-	15-	0-	W00610	-5	-5	-5	16	-20	-15	7	-10	-15	2	33
56-	44.5839-	108.4206-	2-	15-	0-	W00611	-5	-5	-5	13	-20	-15	-5	-10	-15	2	19
56-	44.3756-	108.2000-	2-	12-	0-	W00612	-5	-5	-5	16	-20	-15	7	-10	-15	2	25
56-	44.3092-	108.0933-	2-	15-	0-	W00615	-5	-5	-5	19	-20	-15	10	-10	-15	2	28
56-	44.3100-	108.1272-	2-	15-	0-	W00616	-5	-5	-5	20	-20	-15	-5	-10	-15	2	15
56-	44.2867-	108.0800-	2-	15-	0-	W00617	-5	-5	-5	16	-20	-15	-5	-10	-15	1	10
56-	44.0678-	108.1017-	2-	15-	0-	W00618	-5	-5	-5	15	-20	-15	-5	-10	-15	2	25
56-	44.1042-	108.0428-	2-	15-	0-	W00619	-5	-5	-5	14	-20	-15	-5	-10	-15	2	15
56-	44.1069-	108.0394-	2-	15-	0-	W00620	-5	-5	-5	12	-20	-15	7	-10	-15	2	27
56-	44.1908-	108.0661-	2-	15-	0-	W00621	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	22
56-	44.2094-	108.1117-	2-	15-	0-	W00622	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	20
56-	44.1994-	108.0833-	2-	15-	0-	W00623	-5	-5	-5	15	-20	-15	-5	-10	-15	2	21
56-	44.2375-	108.2006-	2-	15-	0-	W00624	-5	-5	-5	-10	-20	-15	5	-10	-15	1	20
56-	44.2267-	108.1806-	2-	15-	0-	W00625	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	13
56-	44.2250-	108.1800-	2-	15-	0-	W00626	-5	-5	-5	12	-20	-15	7	-10	-15	2	19
56-	44.1917-	108.2022-	2-	15-	0-	W00627	-5	-5	-5	11	24	-15	6	-10	-15	2	23
56-	44.1894-	108.2044-	2-	15-	0-	W00628	-5	-5	-5	10	-20	-15	5	-10	-15	2	17
56-	44.1872-	108.2411-	2-	15-	0-	W00629	-5	-5	-5	10	-20	-15	6	-10	-15	2	19
56-	44.7478-	109.1744-	2-	15-	0-	W00630	-5	-5	-5	18	-20	-15	-5	-10	-15	3	100
56-	44.9461-	109.7736-	2-	12-	0-	W00631	-5	-5	-5	49	-20	34	20	-10	-15	2	36
56-	44.9900-	109.8564-	2-	12-	0-	W00632	-5	-5	-5	57	-20	61	-5	-10	-15	2	26
56-	44.9928-	109.8508-	2-	12-	0-	W00633	-5	-5	-5	90	-20	26	10	-10	-15	2	48
56-	44.9792-	109.8447-	2-	12-	0-	W00634	-5	-5	-5	36	25	59	8	-10	-15	2	35
56-	44.9859-	109.8386-	2-	12-	0-	W00635	-5	-5	-5	57	-20	60	12	-10	-15	2	28
56-	44.9681-	109.8250-	2-	12-	0-	W00636	-5	-5	-5	52	-20	55	-5	-10	-15	2	23
56-	44.9708-	109.8181-	2-	12-	0-	W00637	-5	-5	-5	62	-20	87	9	-10	-15	2	27
56-	44.9506-	109.8000-	2-	12-	0-	W00638	-5	-5	-5	47	-20	-15	6	-10	-15	2	16
56-	44.9269-	109.7636-	2-	15-	0-	W00639	-5	-5	-5	50	-20	25	8	-10	-15	2	22
56-	44.9436-	109.5811-	2-	12-	0-	W00643	-5	-5	-5	19	-20	-15	9	-10	-15	1	36
56-	44.9458-	109.5811-	2-	12-	0-	W00644	-5	-5	-5	23	-20	-15	12	-10	-15	2	55
56-	44.9381-	109.5997-	2-	12-	0-	W00645	-5	-5	-5	17	-20	-15	9	-10	-15	2	29
56-	44.9406-	109.6164-	2-	12-	0-	W00646	-5	-5	-5	20	-20	-15	11	-10	-15	2	43

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.1506-	108.7661-	2-	15-	0-	W00591	53230	-0.16	634	11680	61	-71	9.9	77	2.9	4	1.4	20120	11.5	15870	45	0.4
56-	44.1778-	108.7806-	2-	15-	0-	W00592	56380	-0.18	686	10520	76	-62	9.7	71	3.1	4	1.5	18990	11.8	18490	-18	0.3
56-	44.2125-	108.8167-	2-	15-	0-	W00593	31010	-0.16	523	22520	66	-39	9.8	62	1.8	4	1.4	16520	19.9	13310	42	0.4
56-	44.2028-	108.8403-	2-	15-	0-	W00594	38550	-0.14	432	21830	52	-50	8.8	60	2.8	4	1.3	15610	11.7	15380	-17	0.3
56-	44.2181-	108.9458-	2-	15-	0-	W00595	38580	-0.14	412	3320	49	139	5.4	42	3.7	4	1.2	11430	9.9	10910	-19	0.3
56-	44.1972-	108.9806-	2-	15-	0-	W00596	29140	-0.11	412	7144	37	-50	2.6	38	2.1	3	0.9	9542	6.8	10920	-16	-0.1
56-	44.1972-	108.9361-	2-	15-	0-	W00597	30430	-0.33	448	11050	45	67	4.9	33	2.5	3	1.1	10110	7.2	13690	22	0.3
56-	44.1961-	108.9139-	2-	15-	0-	W00598	37140	-0.04	584	10410	49	-42	5.4	31	3.5	-1	1.3	11610	7.6	15100	26	0.3
56-	44.1653-	108.9028-	2-	15-	0-	W00599	43460	-0.05	537	6542	62	-36	6.9	38	3.4	4	1.4	12530	11.4	14350	26	0.3
56-	44.1542-	108.9333-	2-	15-	0-	W00600	50200	-0.06	714	26700	54	-100	9.2	103	-1.5	4	0.8	22960	9.4	12680	28	0.3
56-	44.1556-	108.9625-	2-	15-	0-	W00601	41430	-0.04	483	5871	50	-33	6.7	36	3.3	4	1.4	12970	10.8	15020	25	0.3
56-	44.6178-	108.2878-	2-	15-	0-	W00602	52060	-0.06	589	9638	67	-48	6.3	53	4.3	5	1.2	21230	9.0	14030	27	0.4
56-	44.5931-	108.2889-	2-	15-	0-	W00603	49870	-0.06	573	14930	66	246	5.5	54	3.3	5	1.2	17570	8.6	14930	25	0.4
56-	44.5919-	108.2900-	2-	15-	0-	W00604	51600	-0.05	449	14070	62	-53	7.0	54	4.7	5	1.2	21750	7.9	14540	28	0.4
56-	44.5842-	108.3139-	2-	15-	0-	W00605	41310	-0.04	453	12650	48	-45	5.9	39	3.2	4	1.2	16790	8.5	14870	24	0.3
56-	44.5289-	108.3222-	2-	15-	0-	W00606	43700	-0.05	554	13630	58	-45	5.4	40	3.8	4	1.1	14850	8.5	16530	22	0.3
56-	44.5297-	108.3211-	2-	15-	0-	W00607	29610	-0.05	592	9986	46	-39	5.9	44	3.2	3	0.7	14940	6.6	13060	26	0.3
56-	44.5300-	108.3172-	2-	15-	0-	W00608	33790	-0.04	847	11660	56	-44	4.8	43	2.7	4	0.8	12820	14.9	12390	26	0.4
56-	44.5583-	108.3322-	2-	15-	0-	W00609	41580	-0.05	535	10550	53	-39	5.2	40	2.9	4	1.1	16020	8.4	13700	25	0.3
56-	44.6100-	108.3956-	2-	15-	0-	W00610	47910	-0.05	535	10150	66	-52	7.8	62	4.3	4	1.4	21710	12.4	15100	32	0.4
56-	44.5839-	108.4206-	2-	15-	0-	W00611	29550	-0.03	392	16430	43	-41	3.9	31	1.6	3	1.0	10190	7.0	11830	21	0.2
56-	44.3756-	108.2000-	2-	15-	0-	W00612	48870	-0.05	583	23470	59	-69	8.6	86	2.3	4	0.7	20440	11.8	12980	27	0.3
56-	44.3092-	108.0933-	2-	15-	0-	W00615	48970	-0.05	519	10750	61	-44	6.1	46	4.4	5	1.2	17450	9.3	16930	29	0.4
56-	44.3100-	108.1272-	2-	15-	0-	W00616	28090	-0.04	633	6050	74	-37	5.2	49	3.1	4	1.6	13630	31.0	10950	33	0.5
56-	44.2867-	108.0800-	2-	15-	0-	W00617	19140	-0.04	3232	6193	65	41	3.2	46	1.8	5	2.2	8291	34.3	8461	32	0.5
56-	44.0678-	108.1017-	2-	15-	0-	W00618	32750	-0.03	782	8699	44	-35	5.2	32	3.2	4	1.3	11640	8.5	13610	24	0.3
56-	44.1042-	108.0428-	2-	15-	0-	W00619	23340	-0.03	1822	9708	44	46	2.8	21	2.3	3	1.4	8798	8.3	10510	19	0.2
56-	44.1069-	108.0394-	2-	15-	0-	W00620	42370	-0.05	708	11150	70	-43	5.8	52	3.4	4	1.6	18910	14.3	15860	32	0.4
56-	44.1908-	108.0661-	2-	15-	0-	W00621	27830	-0.03	661	8184	60	62	4.1	36	2.3	4	0.7	10410	17.1	10730	21	0.3
56-	44.2094-	108.1117-	2-	15-	0-	W00622	23410	-0.05	2843	8942	116	-35	4.1	67	1.9	8	3.2	14630	104.4	10040	54	1.0
56-	44.1994-	108.0833-	2-	15-	0-	W00623	32070	-0.04	873	10790	59	-37	5.4	35	2.5	4	1.6	10510	15.5	13250	23	0.4
56-	44.2375-	108.2006-	2-	15-	0-	W00624	23100	-0.04	757	7892	55	-33	5.3	34	2.5	3	1.4	10940	14.8	8092	26	0.3
56-	44.2267-	108.1806-	2-	15-	0-	W00625	19190	-0.04	1577	8531	72	-36	5.8	41	1.7	5	1.4	10790	45.2	8479	33	0.5
56-	44.2250-	108.1800-	2-	15-	0-	W00626	31580	-0.04	641	9793	50	-38	6.4	37	3.0	4	1.6	11050	15.9	11010	22	0.4
56-	44.1917-	108.2022-	2-	15-	0-	W00627	37310	-0.04	731	5992	54	-33	7.8	37	4.1	4	1.6	13970	11.1	12940	23	0.3
56-	44.1894-	108.2044-	2-	15-	0-	W00628	36900	-0.04	418	6506	51	-38	9.0	39	4.2	3	1.6	16630	8.5	14280	25	0.3
56-	44.1872-	108.2411-	2-	15-	0-	W00629	29500	-0.03	546	8667	54	-34	6.5	41	2.3	5	1.7	11780	23.0	11910	26	0.5
56-	44.7478-	109.1744-	2-	15-	0-	W00630	52590	-0.06	735	39610	58	-83	6.5	65	3.5	4	1.1	20500	4.6	16800	26	0.3
56-	44.9461-	109.7736-	2-	12-	0-	W00631	73530	-0.11	763	23790	173	320	25.7	165	-2.7	5	2.2	63010	25.0	13630	56	0.5
56-	44.9900-	109.8564-	2-	12-	0-	W00632	73250	-0.29	948	55530	60	-126	28.0	437	-2.2	3	1.5	51760	2.9	15170	-32	-0.2
56-	44.9928-	109.8508-	2-	12-	0-	W00633	74630	-0.08	743	50450	68	-111	23.1	396	3.8	5	1.7	48100	5.3	21820	33	0.3
56-	44.9792-	109.8447-	2-	12-	0-	W00634	75010	-0.08	1054	58070	65	-111	21.8	297	-2.1	3	1.6	43850	4.0	16300	29	0.2
56-	44.9869-	109.8386-	2-	12-	0-	W00635	77050	-0.11	1136	50560	75	-116	37.5	412	-2.7	3	2.1	64380	4.2	15640	39	0.3
56-	44.9681-	109.8250-	2-	12-	0-	W00636	69710	-0.33	993	58760	57	-122	24.8	665	-2.4	3	1.6	56560	3.7	12660	-34	-0.2
56-	44.9708-	109.8181-	2-	12-	0-	W00637	75320	-0.08	1058	55130	60	-125	26.6	330	-2.1	3	1.7	49880	3.0	14220	27	-0.1
56-	44.9506-	109.8000-	2-	12-	0-	W00638	83930	-0.09	1022	52550	59	-126	21.2	197	-2.3	3	1.6	47550	3.0	12660	23	-0.1
56-	44.9269-	109.7636-	2-	15-	0-	W00639	90640	-0.10	1090	61180	72	-120	32.0	371	-2.7	-1	2.5	67330	4.0	14620	38	-0.1
56-	44.9436-	109.5811-	2-	12-	0-	W00643	64020	-0.28	654	15340	139	-129	16.1	97	3.9	4	1.8	48320	9.3	19790	103	0.6
56-	44.9458-	109.5811-	2-	12-	0-	W00644	70940	-0.07	752	6960	104	-95	13.5	72	4.2	7	1.7	34860	8.1	27790	49	0.4
56-	44.9381-	109.5997-	2-	12-	0-	W00645	53460	-0.05	812	15700	71	-85	7.4	68	3.5	4	1.3	20110	10.9	22070	30	0.3
56-	44.9406-	109.6164-	2-	12-	0-	W00646	58860	-0.09	666	33320	106	142	16.7	113	6.3	6	2.1	40200	15.5	29390	49	0.7

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.1606-108.7661-2-15-						D-W00591	13710	425	7169	-23	-4	5.9	5.0	-204	-1	-1	11.4	2939	66	3.7	-81	0.272
56-44.1778-108.7806-2-15-						D-W00592	10990	417	7588	58	-4	6.7	5.5	-210	-1	-1	11.6	3494	69	4.4	46	0.267
56-44.2125-108.8167-2-15-						D-W00593	13730	307	2396	-21	-3	4.9	6.4	-162	-1	-1	13.9	2220	41	4.1	-22	0.237
56-44.2023-108.8403-2-15-						D-W00594	15220	325	3212	-20	-3	5.3	4.6	-155	-1	-1	9.9	2342	47	-1.8	68	0.364
56-44.2181-108.9458-2-15-						D-W00595	5988	90	1347	47	-3	5.0	3.6	-101	-1	-1	7.0	2647	56	3.8	-42	0.357
56-44.1972-108.9806-2-15-						D-W00596	7502	142	2537	-15	-3	3.1	6.7	-148			5.3	1917	43	-1.5	26	0.396
56-44.1972-108.9361-2-15-						D-W00597	7559	163	3014	45	-1	3.9	3.4	-120	-1	1	6.2	1989	46	2.0	26	0.371
56-44.1861-108.9139-2-15-						D-W00598	9979	181	3199	46	-1	4.6	3.9	-152	-1	-1	7.6	-354	55	2.0	-66	0.342
56-44.1653-108.9028-2-15-						D-W00599	9824	134	2895	33	-1	5.4	4.5	-127	-1	-1	7.8	3126	68	2.6	76	0.372
56-44.1542-108.9333-2-15-						D-W00600	23250	516	12200	-23	-1	9.6	4.3	545	-1	-1	7.3	3575	91	-1.1	-55	0.288
56-44.1556-108.9625-2-15-						D-W00601	8555	99	2043	53	-1	5.2	4.3	-119	-1		8.0	2726	60	2.7	84	0.363
56-44.6178-108.2878-2-15-						D-W00602	13130	317	4214	52	-1	6.9	4.8	-188	-1	-1	10.6	3455	91	3.0	59	0.330
56-44.5931-108.2889-2-15-						D-W00603	17190	299	4706	48	-1	6.2	4.7	-222	-1	-1	9.7	3393	84	3.2	83	0.361
56-44.5919-108.2900-2-15-						D-W00604	14140	310	3936	57	-1	7.1	4.4	-174	-1	-1	8.6	2681	82	2.7	80	0.407
56-44.5842-108.3139-2-15-						D-W00605	12110	251	3948	66	-1	5.6	4.4	-169	-1	-1	8.3	2673	67	3.0	-62	0.386
56-44.5289-108.3222-2-15-						D-W00606	14360	302	3395	-17	-1	5.4	4.8	-177	-1	-1	8.4	2912	71	3.1	46	0.381
56-44.5297-108.3211-2-15-						D-W00607	9928	269	2450	-21	-1	4.8	4.3	-164	-1	-1	7.4	2014	48	2.2	-61	0.297
56-44.5300-108.3172-2-15-						D-W00608	10790	278	2672	-16	-1	4.8	4.5	-149	-1	-1	8.5	2207	52	2.9	-45	0.365
56-44.5583-108.3322-2-15-						D-W00609	13690	279	3034	39	-1	5.5	4.2	-139	-1	-1	8.2	2921	73	2.9	-39	0.366
56-44.6100-108.3956-2-15-						D-W00610	13890	262	4044	74	-1	7.7	5.2	-160	-1	-1	10.2	2882	77	3.2	100	0.333
56-44.5839-108.4206-2-15-						D-W00611	11090	159	3034	-14	-1	3.8	3.4	-119	-1		5.9	1892	44	2.2	-53	0.397
56-44.3756-108.2000-2-12-						D-W00612	24250	336	9584	-21	-1	7.5	4.4	402	-1	-1	7.9	2996	81	2.7	66	0.380
56-44.3092-108.0933-2-15-						D-W00615	16750	329	3139	58	-1	6.3	5.4	-186	-1	-1	9.7	3151	85	3.5	71	0.330
56-44.3100-108.1272-2-15-						D-W00616	9132	253	1977	45	1	5.3	5.7	-136	-1	1	11.0	2651	49	4.3	48	0.273
56-44.2857-108.0800-2-15-						D-W00617	5549	246	1965	-14	-1	3.5	4.4	-131	-1	-1	7.7	2413	38	4.2	24	0.481
56-44.0678-108.1017-2-15-						D-W00618	9063	239	2939	40	-1	4.4	4.0	-143	-1		7.0	2133	61	2.2	61	0.371
56-44.1042-108.0428-2-15-						D-W00619	5796	324	1953	33	-1	3.0	3.3	-155	-1		5.7	2153	40	1.7	-20	0.386
56-44.1069-108.0394-2-15-						D-W00620	13830	235	2559	79	-1	5.9	5.6	-147	-1	-1	11.2	2806	77	3.8	65	0.295
56-44.1908-108.0661-2-15-						D-W00621	10270	192	2415	-13	-1	4.0	4.2	-123	-1	-1	7.0	2066	46	3.0	26	0.414
56-44.2094-108.1117-2-15-						D-W00622	7124	370	1571	48	-1	5.5	9.1	-175	2	1	19.8	5828	56	7.9	48	0.394
56-44.1994-108.0833-2-15-						D-W00623	10020	239	3150	37	-1	4.2	4.3	-140	-1	-1	7.7	2538	58	2.5	51	0.377
56-44.2375-108.2006-2-15-						D-W00624	7184	232	1613	-16	-1	4.1	4.4	-128	-1	-1	7.9	1840	39	2.8	71	0.329
56-44.2267-108.1806-2-15-						D-W00625	5075	383	1293	41	-1	3.8	4.8	-152	1	-1	9.5	2978	36	4.5	20	0.463
56-44.2250-108.1800-2-15-						D-W00626	10100	252	2522	44	-1	4.4	4.8	-155	-1	-1	7.8	2370	51	3.0	56	0.410
56-44.1917-108.2022-2-15-						D-W00627	7772	232	2257	54	-1	4.9	4.4	-137	-1	-1	7.4	2548	66	3.0	66	0.378
56-44.1894-108.2044-2-15-						D-W00628	11060	213	2478	47	-1	5.9	4.4	-130	-1	-1	8.1	2302	58	2.4	55	0.346
56-44.1872-108.2411-2-15-						D-W00629	10660	193	2002	47	-1	4.5	4.4	-116	-1	-1	8.5	2520	44	3.5	43	0.395
56-44.7478-109.1744-2-15-						D-W00630	32980	313	11530	57	-1	8.6	4.5	-249	-1	-1	8.6	2686	108	2.4	104	0.360
56-44.9461-109.7736-2-12-						D-W00631	24170	1155	17660	-43	-3	19.8	8.8	-431	-2	-2	29.1	3989	124	4.5	-138	0.220
56-44.9900-109.8564-2-12-						D-W00632	64960	909	18290	-44	-7	22.5	4.4	960	-1	-1	5.0	4738	145	-3.5	82	0.240
56-44.9928-109.8508-2-12-						D-W00633	43380	746	13210	92	-2	21.3	5.4	589	-2	-1	10.2	4364	133	-1.5	119	0.235
56-44.9792-109.8447-2-12-						D-W00634	53120	700	19810	-32	-2	16.5	5.1	793	-1	-1	4.7	3933	133	2.1	-40	0.298
56-44.9869-109.8385-2-12-						D-W00635	52710	817	19110	-43	-3	23.8	5.3	975	-2	-1	5.9	5030	137	2.0	83	0.220
56-44.9681-109.8250-2-12-						D-W00636	55360	860	17650	-42	-8	25.1	5.2	849	-2	-1	4.7	5544	202	-4.1	-45	0.277
56-44.9708-109.8181-2-12-						D-W00637	59590	768	19060	55	-2	20.9	5.5	885	-1	-1	5.4	4242	135	-1.5	-28	0.241
56-44.9506-109.8000-2-12-						D-W00638	49170	831	23170	-33	-2	20.4	4.4	1279	-1	-1	3.6	3874	171	-1.8	-81	0.306
56-44.9269-109.7636-2-15-						D-W00639	49250	905	22540	-42	-3	26.6	5.6	1190	-2	-1	5.3	5738	185	3.0	-52	0.208
56-44.9436-109.5811-2-12-						D-W00643	17320	714	19120	-41	-7	11.2	11.2	-327	-1	-1	37.4	2645	60	8.8	119	0.072
56-44.9458-109.5811-2-12-						D-W00644	15920	703	7572	100	-2	10.4	8.4	-313	-2	-1	21.6	3254	60	-1.4	-103	0.185
56-44.9381-109.5997-2-12-						D-W00645	20630	405	12190	58	-1	6.5	4.9	-267	-1	-1	9.9	3085	53	2.6	63	0.333
56-44.9406-109.6164-2-12-						D-W00646	34170	534	6194	111	-2	13.3	9.3	-272	-1	-1	17.1	3340	71	4.7	72	0.193

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	-44.9342	-109.6506	2	12	-	0-W00647	-05/27/77	-14	8	4.0	-	-	7.4	90	11-3-1-5-6-4-3-1-2-1-4-3-2														-1	-	-	-	-	4.40
56-44.9414	-109.7100	2	12	-	0-W00648	-05/27/77	-15	12	11.0	C	-	-	7.3	80	9-4-9-5-6-2-3-1-3-6-3-1-2														-1	-	-	-	-	6.20
56-44.9417	-109.7053	2	12	-	0-W00649	-05/27/77	-15	10	7.0	C	-	-	7.6	13	6-4-9-4-6-4-3-1-2-1-4-2-2														-1	-	-	-	-	3.60
56-44.9225	-109.7069	2	12	-	0-W00650	-05/27/77	-16	11	7.0	C	-	-	6.5	14	-3-9-4-6-4-3-1-2-1-4-3-2														-1	-	-	-	-	2.10
56-44.9025	-109.6711	2	12	-	0-W00651	-05/27/77	-15	10	5.5	-	-	-	7.2	90	13-3-4-4-6-4-3-1-2-1-3-4-2														-1	-	-	-	-	3.00
56-44.8753	-109.6375	2	12	-	0-W00652	-05/27/77	-17	8	3.0	C	-	-	7.5	270	9-4-9-5-6-2-3-1-3-3-2-2-2														-3	-	-	-	-	1.90
56-44.9056	-109.6281	2	12	-	0-W00653	-05/28/77	-11	8	3.0	C	-	-	6.8	36	4-4-9-4-6-4-3-1-2-1-4-2-2														-1	-	-	-	-	2.70
56-44.8831	-109.6697	2	12	-	0-W00654	-05/28/77	-12	10	5.5	C	-	-	7.7	190	9-4-9-4-6-3-2-1-2-1-3-3-2														-1	-	-	-	-	1.10
56-44.8375	-109.6364	2	12	-	0-W00655	-05/28/77	-15	9	10.0	C	-	-	7.7	210	6-4-9-4-6-2-2-1-2-1-2-2-2														-1	-	-	-	-	1.10
56-44.8322	-109.6228	2	12	-	0-W00656	-05/28/77	-16	12	7.0	C	-	-	7.6	200	11-4-9-4-6-2-2-1-3-4-3-2-2														-1	-	-	-	-	1.40
56-44.8328	-109.6139	2	12	-	0-W00657	-05/28/77	-16	9	5.0	C	-	-	7.7	360	11-4-9-4-6-2-2-1-2-1-3-3-2														-1	-	-	-	-	2.10
56-44.8433	-109.5581	2	12	-	0-W00658	-05/28/77	-15	7	3.5	-	-	-	7.5	285	11-3-7-4-6-3-2-1-2-1-4-3-2														-1	-	-	-	-	1.50
56-44.8481	-109.5036	2	15	-	0-W00659	-05/28/77	-17	9		-	C	-	-	-	-	18-4-9-4-6- -1- - -1-4-3-2														-1	-	-	-	-	2.80
56-44.8164	-109.6606	2	12	-	0-W00660	-05/30/77	-11	11	2.0	C	-	-	-	70	13-4-9-4-6-3-2-1-2-1-4-4-2														-1	-	-	-	-	1.90
56-44.8036	-109.6583	2	12	-	0-W00661	-05/30/77	-11	8	3.0	C	-	-	7.2	100	2-4-9-5-6-3-2-1-2-1-4-3-2														-1	-	-	-	-	0.90
56-44.8028	-109.6533	2	12	-	0-W00662	-05/30/77	-11	4	3.0	C	-	-	7.4	115	9-4-9-4-6-3-2-1-2-1-4-4-2														-1	-	-	-	-	1.00
56-44.8142	-109.6575	2	12	-	0-W00663	-05/30/77	-12	8	3.0	-	-	-	7.5	125	4-3-4-4-6-3-2-1-2-1-4-3-2														-1	-	-	-	-	1.30
56-44.8350	-109.6881	2	12	-	0-W00664	-05/30/77	-13	14	9.0	-	-	-	7.0	80	15-3-7-4-6-4-3-1-2-1-4-3-2														-1	-	-	-	-	0.90
56-44.8278	-109.5506	2	12	-	0-W00665	-05/30/77	-14	11	5.0	-	-	-	7.8	270	9-1-6-4-6-3-3-1-2-1-4-4-2														-1	-	-	-	-	1.50
56-44.7675	-109.5578	2	15	-	0-W00666	-05/30/77	-16	15		-	-	-	-	-	9-3-7-4-6- -1- -2-1-2-3-2														-1	-	-	-	-	1.90
56-44.7658	-109.5611	2	15	-	0-W00667	-05/30/77	-16	15		-	-	-	-	-	4-3-7- - - -1- -2-1-2-3-2														-1	-	-	-	-	1.40
56-44.7656	-109.5758	2	15	-	0-W00668	-05/30/77	-16	12		-	C	-	-	-	6-4-9-4-6- -1- -3-1-2-4-2														-1	-	-	-	-	1.40
56-44.7481	-109.5864	2	15	-	0-W00669	-05/30/77	-17	17		-	-	-	-	-	6-4- -4-6- -1- -2-3-3-2-2														-1	-	-	-	-	1.40
56-44.7514	-109.5944	2	15	-	0-W00670	-05/30/77	-17	19		-	C	-	-	-	11-3-6-4-6- -1- -2-1-2-2-2														-1	-	-	-	-	1.60
56-44.7628	-109.6114	2	15	-	0-W00671	-05/30/77	-17	15		-	-	-	-	-	4-3-7- - - -1- -2-1-3-3-2														-1	-	-	-	-	1.30
56-44.7211	-109.5231	2	15	-	0-W00672	-05/31/77	-14	24		-	-	-	-	-	6-4- -4-6- -1- -2-1-2-3-1														-3	-	-	-	-	1.00
56-44.7514	-109.5169	2	15	-	0-W00673	-05/31/77	-14	27		-	-	-	-	-	13-4- -4-6- -1- -2-1-2-3-1														-1	-	-	-	-	2.70
56-44.7169	-109.5978	2	12	-	0-W00674	-05/31/77	-15	19	17.0	-	-	-	6.6	110	6-1-1-4-6-2-2-1-2-1-2-4-1														-1	-	-	-	-	1.10
56-44.7194	-109.6206	2	12	-	0-W00676	-05/31/77	-16	28	13.0	-	-	-	6.6	80	6-1-1-4-6-3-2-1-2-1-3-3-2														-1	-	-	-	-	1.10
56-44.7219	-109.6206	2	12	-	0-W00677	-05/31/77	-16	20	17.0	-	-	-	6.5	80	4-1-1-4-6-3-2-2-2-1-3-3-2														-1	-	-	-	-	1.10
56-44.7053	-109.6097	2	12	-	0-W00678	-05/31/77	-17	18	14.0	-	-	-	6.9	120	4-3-7-4-6-3-2-1-2-1-3-4-2														-1	-	-	-	-	1.30
56-44.6817	-109.6475	2	12	-	0-W00679	-05/31/77	-17	20	10.0	-	-	-	6.7	120	2-3-7-4-6-3-2-1-2-1-3-2-2														-1	-	-	-	-	1.20
56-44.6742	-109.6761	2	12	-	0-W00680	-05/31/77	-18	13	10.5	-	-	-	6.4	70	11-3-7-4-6-3-2-2-2-1-4-2-2														-1	-	-	-	-	1.80
56-44.1956	-109.3575	2	12	-	0-W00681	-05/26/77	-11	5	2.5	C	-	-	8.2	42	6-3-7-1-7-4-2-1-2-1-2-6-3														-1	-	-	-	-	1.20
56-44.1975	-109.3544	2	12	-	0-W00682	-05/26/77	-11	5	1.5	C	-	-	8.4	51	11-3-7-1-7-4-2-1-2-1-2-5-3														-1	-	-	-	-	1.10
56-44.1803	-109.3414	2	12	-	0-W00683	-05/26/77	-12	9	3.0	-	-	-	8.6	54	11-3-7-1-7-4-2-1-2-1-3-4-2														-1	-	-	-	-	1.10
56-44.1836	-109.3353	2	12	-	0-W00684	-05/26/77	-13	3	5.0	-	-	-	6.2	78	15-4- -1-7-3-3-1-2-2-2-4-2														-1	-	-	-	-	1.90
56-44.1958	-109.3092	2	12	-	0-W00685	-05/26/77	-13	10	3.5	-	-	-	6.6	62	2-1-6-1-7-4-2-1-2-1-2-4-2														-1	-	-	-	-	1.10
56-44.1972	-109.3064	2	12	-	0-W00686	-05/26/77	-13	10	5.0	-	-	-	7.0	79	11-1-6-1-7-4-2-1-2-1-2-4-2														-1	-	-	-	-	1.80
56-44.1717	-109.3042	2	12	-	0-W00687	-05/26/77	-14	12	3.5	-	-	-	6.6	99	6-4- -6-6-2-2-1-2-4-4-3-2														-1	-	-	-	-	1.50
56-44.2011	-109.2756	2	12	-	0-W00688	-05/26/77	-15	5	2.0	-	-	-	7.0	50	20-1-1-2-7-3-2-1-2-4-3-4-5														-1	-	-	-	-	3.20
56-44.1583	-109.2700	2	12	-	0-W00689	-05/26/77	-15	14	9.0	-	-	-	6.8	80	6-1-7-1-7-4-2-1-2-2-2-3-2														-1	-	-	-	-	1.50
56-44.1689	-109.2650	2	15	-	0-W00690	-05/26/77	-15	15		-	C	-	-	-	9-1-3-3-1- - - -2-2-2-4-2														-1	-	-	-	-	1.30
56-44.1592	-109.2169	2	15	-	0-W00691	-05/26/77	-16	11		-	C	-	-	-	9-4- -2-6- - - -2-4-4-3-2														-3	-	-	-	-	1.80
56-44.1500	-109.2178	2	15	-	0-W00692	-05/26/77	-16	11		-	C	-	-	-	4-4- -3-6- - - -2-4-4-3-2														-3	-	-	-	-	2.00
56-44.1458	-109.2161	2	12	-	0-W00693	-05/26/77	-17	14	15.0	C	-	-	7.0	111	18-4- -5-6-2-3-1-2-4-4-3-3														-3	-	-	-	-	2.20
56-44.1364	-109.1767	2	15	-	0-W00694	-05/26/77	-17	11		-	-	-	-	-	11-4- -4-6- - - -2-4-3-3-3														-3	-	-	-	-	2.70
56-44.1383	-109.1586	2	15	-	0-W00695	-05/26/77	-17	13		-	-	-	-	-	15-4- -4-6- - - -2-4-3-3-2														-3	-	-	-	-	2.40
56-44.1189	-109.1264	2	15	-	0-W00696	-05/26/77	-18	14		-	-	-	-	-	15-4- -3-7- - - -2-3-3-2-2														-3	-	-	-	-	1.80
56-44.1217	-109.1247	2	15	-	0-W00697	-05/26/77	-18	14		-	-	-	-	-	11-4- -3-7- - - -2-3-3-3-2														-3	-	-	-	-	2.50
56-44.1144	-109.2714	2	12	-	0-W00698	-05/27/77	-10	10	6.5	C	-	-	8.6	800	9-4- -5-6-2-3-1-2-4-3-3-3														-3	-	-	-	-	2.60

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.9342-109.6506-2-12-						0-W00647	-5	-5	-5	16	30	-15	11	-10	-15	2	60
56-44.9414-109.7100-2-12-						0-W00648	-5	-5	-5	57	-20	32	9	-10	-15	2	46
56-44.9417-109.7053-2-12-						0-W00649	-5	-5	-5	23	-20	31	14	-10	-15	1	36
56-44.9225-109.7069-2-12-						0-W00650	-5	-5	-5	34	-20	15	10	-10	-15	2	34
56-44.9025-109.6711-2-12-						0-W00651	-5	-5	-5	30	-20	-15	5	-10	-15	1	39
56-44.8753-109.6375-2-12-						0-W00652	-5	-5	-5	24	-20	-15	-5	-10	-15	2	24
56-44.9056-109.6281-2-12-						0-W00653	-5	-5	-5	22	-20	-15	6	-10	-15	2	31
56-44.8831-109.6697-2-12-						0-W00654	-5	-5	-5	42	-20	41	-5	-10	-15	2	20
56-44.9375-109.6364-2-12-						0-W00655	-5	-5	-5	53	-20	48	8	-10	-15	1	21
56-44.8322-109.6228-2-12-						0-W00656	-5	-5	-5	37	-20	36	8	-10	-15	2	29
56-44.8328-109.6139-2-12-						0-W00657	-5	-5	-5	16	-20	27	-5	-10	-15	2	33
56-44.8433-109.5581-2-12-						0-W00658	-5	5	-5	38	-20	36	7	-10	-15	2	24
56-44.8481-109.5036-2-15-						0-W00659	-5	-5	-5	28	-20	19	16	-10	-15	2	42
56-44.8164-109.6606-2-12-						0-W00660	-5	-5	-5	40	-20	25	12	-10	-15	2	23
56-44.8036-109.6583-2-12-						0-W00661	-5	-5	-5	45	-20	58	10	-10	-15	2	15
56-44.8028-109.6533-2-12-						0-W00662	-5	-5	-5	49	-20	73	-5	-10	-15	2	16
56-44.8142-109.6575-2-12-						0-W00663	-5	-5	-5	33	-20	47	9	-10	-15	2	19
56-44.8350-109.6881-2-12-						0-W00664	-5	-5	-5	46	-20	35	6	-10	-15	2	17
56-44.8278-109.5506-2-12-						0-W00665	-5	-5	-5	52	-20	56	13	-10	-15	2	28
56-44.7675-109.5578-2-15-						0-W00666	-5	-5	-5	53	-20	53	21	-10	-15	2	25
56-44.7658-109.5611-2-15-						0-W00667	-5	-5	-5	45	-20	65	9	-10	-15	2	18
56-44.7656-109.5758-2-15-						0-W00668	-5	-5	-5	47	-20	59	-5	-10	-15	2	23
56-44.7481-109.5864-2-15-						0-W00669	-5	-5	-5	54	-20	30	7	-10	-15	2	20
56-44.7514-109.5944-2-15-						0-W00670	-5	-5	-5	56	-20	28	7	-10	-15	2	24
56-44.7628-109.6114-2-15-						0-W00671	-5	-5	-5	38	-20	20	8	-10	-15	2	18
56-44.7211-109.5231-2-15-						0-W00672	-5	-5	-5	43	-20	46	5	-10	-15	2	17
56-44.7514-109.5169-2-15-						0-W00673	-5	5	-5	75	-20	35	-5	-10	-15	3	21
56-44.7169-109.5978-2-12-						0-W00675	-5	-5	-5	46	-20	45	16	-10	-15	2	21
56-44.7194-109.6206-2-12-						0-W00676	-5	-5	6	61	-20	35	7	-10	-15	2	20
56-44.7219-109.6206-2-12-						0-W00677	-5	-5	-5	47	-20	42	9	-10	-15	2	19
56-44.7053-109.6097-2-12-						0-W00678	-5	-5	-5	50	-20	26	6	-10	-15	2	16
56-44.6817-109.6475-2-12-						0-W00679	-5	-5	-5	45	-20	21	6	-10	-15	2	18
56-44.6742-109.6761-2-12-						0-W00680	-5	-5	-5	60	-20	23	12	-10	-15	2	20
56-44.1956-109.3575-2-12-						0-W00681	-5	-5	-5	35	-20	99	10	-10	-15	2	22
56-44.1975-109.3544-2-12-						0-W00682	-5	-5	-5	36	-20	130	11	-10	-15	2	28
56-44.1803-109.3414-2-12-						0-W00683	-5	-5	-5	22	-20	161	10	-10	-15	2	22
56-44.1836-109.3353-2-12-						0-W00684	-5	-5	-5	37	-20	72	11	-10	-15	2	22
56-44.1958-109.3092-2-12-						0-W00685	-5	-5	-5	28	-20	128	15	-10	-15	2	21
56-44.1972-109.3064-2-12-						0-W00686	-5	-5	-5	37	-20	76	14	-10	-15	2	30
56-44.1717-109.3042-2-12-						0-W00687	-5	-5	-5	24	-20	102	17	-10	15	1	17
56-44.2011-109.2756-2-12-						0-W00688	-5	-5	-5	34	-20	29	16	-10	-15	2	23
56-44.1583-109.2700-2-12-						0-W00689	-5	-5	-5	38	-20	97	10	-10	-15	2	20
56-44.1689-109.2650-2-15-						0-W00690	-5	-5	-5	28	-20	44	14	-10	-15	2	27
56-44.1592-109.2169-2-15-						0-W00691	-5	-5	-5	25	-20	72	15	-10	-15	1	19
56-44.1500-109.2178-2-15-						0-W00692	-5	-5	-5	38	-20	42	10	-10	-15	2	33
56-44.1458-109.2161-2-12-						0-W00693	-5	-5	-5	25	-20	34	14	-10	-15	2	21
56-44.1364-109.1767-2-15-						0-W00694	-5	-5	-5	37	-20	65	16	-10	-15	2	23
56-44.1383-109.1586-2-15-						0-W00695	-5	-5	-5	31	-20	26	10	-10	-15	2	35
56-44.1189-109.1264-2-15-						0-W00696	-5	-5	-5	22	-20	30	17	-10	-15	1	26
56-44.1217-109.1247-2-15-						0-W00697	-5	-5	-5	29	-20	35	15	-10	-15	1	19
56-44.1144-109.2714-2-12-						0-W00698	-5	-5	-5	18	-20	26	-5	-10	-15	2	29

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.9342-	109.6506-2-12-		0-	W00647		69130	-0.19	788	8815	117	-86	11.7	93	5.6	6	1.7	31440	13.8	34880	-21	0.5
56-	44.9414-	109.7100-2-12-		0-	W00648		73010	-0.12	873	21950	150	-105	17.2	146	4.2	10	4.1	52030	10.0	9468	135	0.7
56-	44.9417-	109.7053-2-12-		0-	W00649		64080	-0.07	582	22180	89	-132	16.3	134	-1.9	3	1.7	44930	13.8	16580	47	0.3
56-	44.9225-	109.7069-2-12-		0-	W00650		56900	-0.06	797	20620	83	-120	11.0	91	1.9	4	1.6	33720	8.7	20080	41	0.3
56-	44.9025-	109.6711-2-12-		0-	W00651		62940	-0.07	893	19420	114	-85	10.6	84	3.8	5	1.6	31120	13.6	28320	41	0.5
56-	44.8753-	109.6375-2-12-		0-	W00652		75200	-0.09	1038	40760	82	-101	24.3	240	-2.2	4	1.3	59300	10.7	14010	42	0.3
56-	44.9056-	109.6281-2-12-		0-	W00653		59150	-0.06	655	16960	101	150	12.3	81	2.2	5	1.6	35220	9.8	20850	50	0.3
56-	44.8831-	109.6697-2-12-		0-	W00654		76690	-0.07	944	57150	56	-119	21.3	189	-2.0	3	1.6	46630	2.5	17990	28	0.3
56-	44.8375-	109.6364-2-12-		0-	W00655		68500	-0.09	721	57600	48	-122	23.3	430	-2.4	2	1.6	52390	3.7	8986	21	0.2
56-	44.8322-	109.6228-2-12-		0-	W00656		65500	-0.10	737	52050	78	-102	27.6	387	-2.6	3	1.8	60950	4.8	16040	38	0.3
56-	44.8328-	109.6139-2-12-		0-	W00657		64520	-0.07	920	56340	65	-114	14.7	136	3.0	3	1.5	35110	4.3	22300	31	0.3
56-	44.8433-	109.5581-2-12-		0-	W00658		63070	-0.07	857	69810	58	-110	22.5	431	-1.9	3	1.5	50190	3.2	16120	26	0.1
56-	44.8481-	109.5036-2-15-		0-	W00659		57950	-0.06	792	23110	95	-74	10.8	79	3.3	6	1.6	32370	9.8	25590	36	0.4
56-	44.8164-	109.6606-2-12-		0-	W00660		76140	-0.11	1089	42560	70	-127	32.7	253	-2.9	3	1.3	69610	4.9	15060	38	0.2
56-	44.8036-	109.6583-2-12-		0-	W00661		68080	-0.08	752	58230	46	-116	28.2	553	-2.1	2	1.7	58920	3.1	7947	24	0.2
56-	44.8028-	109.6533-2-12-		0-	W00662		72310	-0.08	816	58010	43	-127	26.8	387	-2.2	2	1.3	51530	2.5	9693	22	-0.1
56-	44.8142-	109.6575-2-12-		0-	W00663		73930	-0.08	1060	47630	57	-123	24.6	276	-2.1	3	1.6	52950	4.2	13120	28	-0.1
56-	44.8350-	109.6881-2-12-		0-	W00664		69190	-0.09	738	62380	53	-116	28.6	368	-2.1	3	1.7	63170	2.4	10730	27	-0.1
56-	44.8278-	109.5506-2-12-		0-	W00665		72050	-0.08	960	72490	78	-109	21.7	393	-2.1	3	1.7	47610	4.3	16900	26	0.2
56-	44.7675-	109.5578-2-15-		0-	W00666		72070	-0.10	1208	42450	89	-107	33.9	422	4.6	3	2.5	91050	3.3	15870	49	-0.1
56-	44.7558-	109.5611-2-15-		0-	W00667		64720	-0.07	845	50530	65	-112	26.7	486	-1.9	3	1.7	63410	3.3	13010	31	-0.1
56-	44.7656-	109.5758-2-15-		0-	W00668		75050	-0.08	1012	47700	66	-129	29.7	336	-2.0	3	1.7	68650	2.8	11400	32	0.2
56-	44.7481-	109.5864-2-15-		0-	W00669		78680	-0.08	1037	52310	78	-118	26.0	247	-2.1	3	1.8	63660	2.9	12010	33	0.3
56-	44.7514-	109.5944-2-15-		0-	W00670		75210	-0.10	844	49700	88	-106	36.4	359	-2.5	2	2.3	91760	4.1	12480	41	-0.1
56-	44.7628-	109.6114-2-15-		0-	W00671		80510	-0.08	1129	47350	63	-127	25.3	246	-2.0	3	1.8	60290	2.8	12310	32	-0.1
56-	44.7211-	109.5231-2-15-		0-	W00672		82320	-0.07	1093	48990	49	-126	23.7	176	-1.9	2	1.1	49380	2.7	10970	27	0.2
56-	44.7514-	109.5169-2-15-		0-	W00673		73160	-0.09	1121	39390	144	-119	32.2	254	-2.1	-1	2.3	92480	4.4	12980	51	0.2
56-	44.7169-	109.5978-2-12-		0-	W00675		85920	-0.09	1006	52660	76	-113	32.0	191	-2.4	3	2.0	66340	3.8	18180	35	-0.1
56-	44.7194-	109.6206-2-12-		0-	W00676		74010	-0.08	837	52430	64	-117	34.3	401	-2.2	2	1.7	88440	2.6	11600	27	-0.1
56-	44.7219-	109.6206-2-12-		0-	W00677		80520	-0.07	971	50940	57	-125	26.6	217	-2.0	3	1.9	54680	2.6	12340	24	0.2
56-	44.7053-	109.6097-2-12-		0-	W00678		87790	-0.08	1252	52400	64	-124	22.7	141	-2.2	3	1.7	50460	3.3	17030	29	-0.1
56-	44.6817-	109.6475-2-12-		0-	W00679		91080	-0.10	1050	51270	72	-110	30.7	201	-2.6	-1	2.3	76150	2.9	13820	34	-0.1
56-	44.6742-	109.6761-2-12-		0-	W00680		91880	-0.07	1054	47220	61	-117	21.5	123	-2.0	2	0.8	50840	3.0	13390	31	0.2
56-	44.1956-	109.3575-2-12-		0-	W00681		90740	-0.07	1240	47250	75	-112	24.7	286	-1.7	2	1.3	41730	2.6	11020	30	-0.1
56-	44.1975-	109.3544-2-12-		0-	W00682		59500	-0.08	863	46880	79	-104	41.5	489	-2.2	-1	1.8	66780	3.0	9390	36	-0.1
56-	44.1803-	109.3414-2-12-		0-	W00683		56500	-0.07	956	46170	64	-116	38.2	533	-1.9	2	1.5	62680	2.9	5810	34	-0.1
56-	44.1836-	109.3353-2-12-		0-	W00684		82250	-0.07	1377	42710	62	-125	24.9	245	-1.8	2	1.0	46210	3.6	14930	34	0.1
56-	44.1958-	109.3092-2-12-		0-	W00685		73160	-0.07	991	49240	77	-110	30.1	361	-1.8	2	1.4	49600	2.5	9266	31	-0.1
56-	44.1972-	109.3064-2-12-		0-	W00686		93750	-0.09	1588	33270	101	-110	33.5	301	-2.1	-1	1.9	70550	4.8	16270	49	-0.1
56-	44.1717-	109.3042-2-12-		0-	W00687		80750	-0.07	1239	46440	67	-124	27.4	351	-1.8	2	0.9	45330	2.7	10820	35	-0.1
56-	44.2011-	109.2756-2-12-		0-	W00688		86020	-0.07	1057	29880	80	-127	14.2	122	-1.7	3	1.1	33780	4.7	17490	41	0.2
56-	44.1583-	109.2700-2-12-		0-	W00689		71190	-0.07	1001	45590	69	-106	27.3	327	-1.9	2	1.6	52800	3.1	12390	28	0.1
56-	44.1689-	109.2650-2-15-		0-	W00690		93090	-0.08	1365	43480	67	-106	27.4	205	-2.0	3	2.0	53830	3.4	11960	38	0.2
56-	44.1592-	109.2169-2-15-		0-	W00691		83260	-0.07	1273	42900	64	-120	23.3	239	-1.7	2	1.2	46370	3.6	15180	29	0.3
56-	44.1500-	109.2178-2-15-		0-	W00692		69970	-0.06	927	29910	61	-111	18.3	173	2.6	3	1.1	39150	5.1	12600	31	0.2
56-	44.1458-	109.2161-2-12-		0-	W00693		84660	-0.07	1251	45620	99	-118	18.4	211	-1.8	3	1.7	40620	7.7	14580	36	0.4
56-	44.1364-	109.1767-2-15-		0-	W00694		57710	-0.09	655	44370	115	-94	32.1	444	-2.4	4	2.2	79020	17.5	8151	55	0.6
56-	44.1383-	109.1586-2-15-		0-	W00695		63090	-0.05	813	31560	67	-86	12.6	119	3.0	4	1.4	31350	6.5	14570	31	0.3
56-	44.1189-	109.1264-2-15-		0-	W00696		76480	-0.07	1031	36740	66	-114	19.3	177	-1.7	4	0.9	41180	6.0	18420	32	0.3
56-	44.1217-	109.1247-2-15-		0-	W00697		59370	-0.06	751	34700	97	-85	14.6	175	-1.6	4	1.5	37210	11.1	12920	35	0.3
56-	44.1144-	109.2714-2-12-		0-	W00698		60470	-0.07	952	25300	72	-80	15.7	206	3.5	4	1.7	39240	14.9	13470	39	0.5

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.9342-109.6506-2-12-						0-W00547	13560	619	5918	110	-5	11.0	12.6	-272	-1	-1	23.0	4193	54	5.3	60	0.191
56-44.9414-109.7100-2-12-						0-W00548	17950	720	12300	-45	-3	22.5	21.1	-359	-2	-2	24.8	3432	89	7.6	-61	0.250
56-44.9417-109.7053-2-12-						0-W00549	25480	879	21220	-30	-2	14.7	6.2	-346	-1	-1	22.5	5041	103	3.6	-23	0.160
56-44.9225-109.7069-2-12-						0-W00550	16230	651	20140	60	-1	9.7	5.6	-281	-1	-1	17.5	2789	82	3.2	91	0.120
56-44.9025-109.6711-2-12-						0-W00551	15630	429	11350	91	-2	9.7	6.6	-264	-1	-1	16.6	3438	60	4.5	73	0.181
56-44.8753-109.6375-2-12-						0-W00552	37290	729	13830	-35	-2	24.2	-0.6	770	-2	-1	9.5	5223	173	-1.6	-44	0.200
56-44.9056-109.6281-2-12-						0-W00553	16250	593	13520	80	-1	10.4	-0.6	-271	-1	-1	23.4	3305	64	3.8	85	0.115
56-44.8831-109.6697-2-12-						0-W00554	43280	706	19650	-30	-2	20.8	5.1	779	-1	-1	4.8	4210	147	-1.3	66	0.229
56-44.8375-109.6364-2-12-						0-W00555	56190	1230	18330	-33	-2	28.6	4.0	916	-1	-1	2.9	4767	197	-1.7	-39	0.379
56-44.8322-109.6228-2-12-						0-W00556	50710	832	15900	-40	-2	29.7	5.0	823	-1	-1	6.9	4805	165	-2.0	-50	0.203
56-44.8328-109.6139-2-12-						0-W00557	54970	581	13570	-30	-2	13.2	4.3	-302	-1	-1	7.4	3217	114	2.6	118	0.284
56-44.8433-109.5581-2-12-						0-W00558	50360	798	16550	-30	-2	23.3	4.1	651	-1	-1	4.5	4476	175	2.4	114	0.333
56-44.8481-109.5036-2-15-						0-W00559	19800	577	8296	56	-2	10.9	6.9	-269	-1	-1	14.6	2985	64	4.3	70	0.192
56-44.8164-109.6606-2-12-						0-W00560	54050	975	20990	-45	-3	25.5	5.9	1056	-2	-1	6.4	5309	197	-2.4	-58	0.297
56-44.8036-109.6583-2-12-						0-W00561	53680	965	18800	-32	-2	31.5	4.2	1048	-1	-1	3.2	4442	194	-1.5	62	0.281
56-44.8028-109.6533-2-12-						0-W00562	51090	927	20040	-33	-2	27.4	4.0	835	-1	-1	3.0	4594	183	-1.6	-44	0.333
56-44.8142-109.6575-2-12-						0-W00563	53110	743	20910	-32	-2	23.7	4.2	1058	-1	-1	3.8	4811	166	-1.6	70	0.342
56-44.8350-109.6881-2-12-						0-W00564	59400	928	19080	-31	-2	35.0	4.9	1264	-1	-1	3.0	5358	232	-1.5	70	0.300
56-44.9278-109.5506-2-12-						0-W00565	53390	829	17470	-31	-2	20.9	4.1	659	-1	-1	4.7	4639	184	-1.5	-38	0.319
56-44.7675-109.5578-2-15-						0-W00566	47680	997	20540	-41	-2	32.2	6.2	896	-2	-1	6.1	5634	229	-2.0	-52	0.311
56-44.7558-109.5611-2-15-						0-W00567	56040	908	18220	-30	-2	25.5	4.8	895	-1	-1	4.2	5063	226	-1.5	78	0.333
56-44.7656-109.5758-2-15-						0-W00568	49640	1031	21320	-34	-2	24.8	4.9	973	-1	-1	5.0	5291	255	-1.5		0.280
56-44.7481-109.5864-2-15-						0-W00569	47350	954	22120	-31	-2	23.7	4.8	1044	-1	-1	4.2	5569	241	-1.5	81	0.333
56-44.7514-109.5944-2-15-						0-W00570	48220	970	20570	-37	-2	32.7	5.3	997	-1	-1	6.9	6423	253	-1.8	-48	0.232
56-44.7628-109.6114-2-15-						0-W00671	46450	967	21320	-33	-2	23.0	4.8	1416	-1	-1	4.3	5860	205	-1.5	106	0.302
56-44.7211-109.5231-2-15-						0-W00672	48270	756	21850	-31	-2	20.4	4.2	953	-1	-1	3.8	4492	157	1.6	67	0.263
56-44.7514-109.5169-2-15-						0-W00673	35980	643	19080	54	-2	17.7	7.7	-385	-1	-1	9.2	10570	381	2.3	143	0.293
56-44.7169-109.5979-2-12-						0-W00675	49120	904	23060	-38	-2	24.9	5.2	1453	-2	-1	4.1	4545	167	-1.8	-45	0.268
56-44.7194-109.6206-2-12-						0-W00676	51790	1044	18150	-35	-2	32.3	4.5	1173	-1	-1	3.7	8789	393	-1.6	-70	0.297
56-44.7219-109.6206-2-12-						0-W00677	50820	796	21300	49	-2	22.4	4.8	1031	-1	-1	4.2	4426	176	-1.4		0.262
56-44.7053-109.6097-2-12-						0-W00678	48770	949	23420	-31	-2	20.4	4.4	1226	-1	-1	4.2	5463	193	-1.6	91	0.310
56-44.6817-109.6475-2-12-						0-W00679	52450	672	22240	-41	-2	33.0	5.7	1173	-1	-1	5.0	5349	181	-2.0	-49	0.240
56-44.6742-109.6761-2-12-						0-W00680	37230	585	19270	-31	-2	20.5	4.2	1077	-1	-1	5.9	5637	197	-1.4	131	0.305
56-44.1956-109.3575-2-12-						0-W00681	62080	716	24150	-26	-2	15.0	3.9	1297	-1	-1	4.1	2977	115	-1.3	85	0.293
56-44.1975-109.3544-2-12-						0-W00682	73600	672	21100	-34	-2	24.5	5.0	1017	-1	-1	5.4	4040	133	-1.7	-44	0.204
56-44.1803-109.3414-2-12-						0-W00683	89240	926	19770	-30	-2	22.9	4.0	1097	-1	-1	4.5	4317	156	2.4	114	0.244
56-44.1936-109.3353-2-12-						0-W00684	53660	698	22120	-30	-2	14.8	3.7	1125	-1	-1	5.3	3631	130	-1.3	125	0.358
56-44.1958-109.3092-2-12-						0-W00685	72230	720	22730	-28	-2	17.6	3.9	1212	-1	-1	5.2	3322	134	-1.4	-37	0.212
56-44.1972-109.3064-2-12-						0-W00686	49170	638	22010	91	-2	20.3	6.3	1331	-1	-1	9.1	5585	154	-1.7	139	0.198
56-44.1717-109.3042-2-12-						0-W00687	68690	657	24530	-29	-2	17.3	3.3	1423	-1	-1	4.1	3717	107	-1.3	-83	0.366
56-44.2011-109.2756-2-12-						0-W00688	31490	534	20000	57	-2	10.9	5.7	926	-1	-1	13.4	3246	83	-1.3	146	0.239
56-44.1583-109.2700-2-12-						0-W00689	65210	826	21130	-27	-2	18.2	4.8	881	-1	-1	5.1	4192	145	2.0	152	0.294
56-44.1689-109.2650-2-15-						0-W00690	45390	587	21750	-32	-2	20.1	4.3	1266	-1	-1	5.4	4023	118	2.4	-36	0.241
56-44.1592-109.2169-2-15-						0-W00691	47380	725	22740	-27	-2	17.5	4.0	1386	-1	-1	5.3	3972	120	-1.2	91	0.340
56-44.1500-109.2178-2-15-						0-W00692	36790	561	17970	-27	-2	12.7	4.4	-266	-1	-1	9.3	3400	97	2.0	95	0.215
56-44.1458-109.2161-2-12-						0-W00693	37490	723	22980	-27	-2	15.8	5.7	918	-1	-1	9.3	4475	137	3.1	-33	0.237
56-44.1364-109.1767-2-15-						0-W00694	47390	966	15960	-36	-2	34.4	8.1	-299	-1	-1	16.0	7298	196	3.0	-49	0.169
56-44.1383-109.1586-2-15-						0-W00695	29870	497	11030	75	-1	11.2	4.6	671	-1	-1	9.9	3869	97	2.6	83	0.242
56-44.1189-109.1264-2-15-						0-W00696	32490	677	18760	64	-2	15.5	4.6	703	-1	-1	7.8	3878	114	1.9	-25	0.231
56-44.1217-109.1247-2-15-						0-W00697	30050	670	14450	-23	-2	12.9	5.8	721	-1	-1	11.5	4610	118	3.3	-41	0.217
56-44.1144-109.2714-2-12-						0-W00698	21360	454	12360	77	-2	13.8	5.8	703	-1	-1	9.0	4541	137	3.3	-38	0.289

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

(1)

DOE SAMPLE NUMBER							LASL SAMPLE LOCATION NUMBER AND FIELD DATA																														U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.0969-109.3025-2-12-						0-W00697-05/27/77-11-	7-	3.5-C-	-	7.2-	150-	13-4-	-3-6-3-3-1-2-2-3-4-2-	-3-	-	-	-	-	1.70
56-44.1089-109.3511-2-12-						0-W00700-05/27/77-11-	13-	5.5-C-	-	6.8-	110-	9-1-6-4-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-	1.70
56-44.1256-109.3392-2-12-						0-W00701-05/27/77-14-	12-13.0-	-	-	7.0-	80-	13-4-	-4-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-	1.70
56-44.1253-109.2967-2-12-						0-W00702-05/27/77-15-	13-14.5-	-	-	8.8-	1000-	13-4-	-4-6-3-3-2-2-4-3-3-2-	-3-	-	-	-	-	4.20
56-44.0919-109.2375-2-12-						0-W00703-05/27/77-15-	14-16.5-C-	-	7.2-	190-	4-4-	-3-6-3-3-1-2-4-3-3-2-	-4-	-	-	-	-	2.30
56-44.0939-109.2214-2-12-						0-W00704-05/27/77-16-	14- 9.5-C-	-	7.6-	430-	13-4-	-4-6-3-3-1-2-2-3-4-2-	-4-	-	-	-	-	2.30
56-44.1158-109.2181-2-12-						0-W00705-05/27/77-16-	15-13.5-	-	-	7.2-	135-	22-4-	-4-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-	2.30
56-44.0597-109.2419-2-12-						0-W00706-05/27/77-17-	11- 9.5-C-	-	7.2-	170-	9-1-4-4-4-3-3-1-2-2-3-5-2-	-3-	-	-	-	-	3.10
56-44.0811-109.1794-2-12-						0-W00707-05/27/77-17-	14-13.5-	-	-	7.4-	120-	4-4-	-4-6-3-3-2-2-3-3-3-2-	-3-	-	-	-	-	2.30
56-44.0939-109.1433-2-12-						0-W00708-05/27/77-18-	15-11.5-	-	-	6.8-	500-	13-4-	-6-6-2-2-1-2-4-4-3-2-	-3-	-	-	-	-	3.20
56-44.0214-109.1842-2-12-						0-W00709-05/28/77-10-	7- 0.5-	-	-	7.2-	130-	22-4-	-3-6-4-3-2-2-1-3-3-1-	-1-	-	-	-	-	2.40
56-44.0231-109.1861-2-12-						0-W00710-05/28/77-10-	9- 3.0-	-	-	7.0-	140-	9-1-4-3-6-3-3-1-2-1-3-4-1-	-1-	-	-	-	-	1.70
56-44.0350-109.1778-2-12-						0-W00711-05/28/77-11-	5- 4.5-C-	-	5.7-	150-	18-4-	-4-6-3-3-1-2-1-3-3-1-	-3-	-	-	-	-	3.40
56-44.0461-109.1786-2-12-						0-W00712-05/28/77-11-	10- 5.0-C-	-	6.3-	450-	18-4-	-5-6-2-3-1-2-3-3-2-1-	-3-	-	-	-	-	3.10
56-44.0536-109.1808-2-12-						0-W00713-05/28/77-11-	9- 4.5-C-	-	5.7-	260-	18-1-6-5-6-3-3-2-2-2-3-2-1-	-3-	-	-	-	-	3.00
56-44.0356-109.1019-2-15-						0-W00714-05/28/77-12-	14-	- - -	-	-	22-4-	-4-4- - - -2-4-4-2-2-	-3-	-	-	-	-	2.30
56-44.0522-109.1119-2-12-						0-W00715-05/28/77-12-	12-10.0-C-	-	6.3-	500-	13-4-	-3-4-2-3-1-2-4-4-2-2-	-3-	-	-	-	-	2.60
56-44.0622-109.1264-2-15-						0-W00716-05/28/77-12-	15-	- - -	-	-	13-4-	-6-6- - - -3-4-4-3-2-	-3-	-	-	-	-	3.30
56-44.0656-109.1367-2-15-						0-W00717-05/28/77-12-	15-	-C- -	-	-	18-4-	-4-6- - - -3-4-4-3-2-	-3-	-	-	-	-	2.80
56-44.0789-109.1350-2-12-						0-W00718-05/28/77-13-	10- 8.5-C-	-	6.3-	650-	9-4-	-3-7-2-3-1-2-2-2-3-2-	-3-	-	-	-	-	2.30
56-44.0808-109.1428-2-12-						0-W00719-05/28/77-13-	12-12.0-C-	-	5.7-	180-	13-4-	-4-6-4-3-1-2-3-3-3-2-	-3-	-	-	-	-	2.20
56-44.1142-109.0625-2-12-						0-W00720-05/28/77-13-	9-17.5-C-	-	7.4-	50000-	4-4-	-3-6-2-2-1-2-4-2-3-2-	-4-	-	-	-	-	3.50
56-44.1581-109.0633-2-12-						0-W00721-05/28/77-14-	10-14.5-C-	-	7.4-	2150-	9-4-	-5-6-2-3-1-2-4-4-3-2-	-4-	-	-	-	-	3.40
56-44.0689-109.0056-2-15-						0-W00722-05/28/77-15-	17-	-C- -	-	-	9-1-4-4-4- - - - -4-3-4-2-	-3-	-	-	-	-	2.80
56-44.0714-109.0078-2-12-						0-W00723-05/28/77-15-	17-15.5-C-	-	6.0-	900-	13-1-4-4-4-3-3-1-2-4-3-3-2-	-3-	-	-	-	-	2.50
56-44.0461-109.0117-2-15-						0-W00724-05/28/77-16-	17-	- - -	-	-	13-1-4-4-4- - - - -4-3-4-2-	-3-	-	-	-	-	2.40
56-44.1703-109.1006-2-12-						0-W00725-05/30/77-10-	14- 8.5-C-	-	9.4-	2800-	18-4-	-4-6-3-3-1-2-4-3-2-2-	-4-	-	-	-	-	2.40
56-44.1700-109.1094-2-12-						0-W00726-05/30/77-10-	14-11.5-C-	-	7.8-	1700-	9-4-	-4-6-2-3-1-2-4-3-2-2-	-4-	-	-	-	-	2.00
56-44.1700-109.0231-2-12-						0-W00727-05/30/77-12-	12- 9.0-C-	-	8.2-	7250-	9-4-	-4-6-2-3-1-2-4-4-3-2-	-3-	-	-	-	-	2.50
56-44.1375-109.0058-2-15-						0-W00728-05/30/77-12-	12-	- - -	-	-	9-4-	-4-6- - - -2-4-3-3-2-	-3-	-	-	-	-	2.80
56-44.1844-109.0136-2-15-						0-W00729-05/30/77-12-	11-	- - -	-	-	13-4-	-4-6- - - -2-4-3-3-2-	-3-	-	-	-	-	3.30
56-44.8981-109.1072-2-15-						0-W00730-05/26/77-10-	15-	- - -	-	-	4-1-1-5-1- - - - -3-2-3-2-	-1-	-	-	-	-	3.00
56-44.9325-109.0903-2-15-						0-W00731-05/26/77-11-	17-	- - -	-	-	6-1-1-4-1- - - - -3-2-2-2-	-4-	-	-	-	-	2.60
56-44.9694-109.0558-2-15-						0-W00732-05/26/77-11-	18-	- - -	-	-	6-1-1-4-1- - - - -3-3-2-2-	-1-	-	-	-	-	2.80
56-44.9606-109.0467-2-15-						0-W00733-05/26/77-12-	17-	- - -	-	-	5-1-1-4-1- - - - -3-2-2-2-	-1-	-	-	-	-	2.90
56-44.9467-109.0264-2-15-						0-W00734-05/26/77-12-	17-	- - -	-	-	3-1-1-4-1- - - - -3-2-2-2-	-1-	-	-	-	-	3.00
56-44.9292-109.0194-2-15-						0-W00735-05/26/77-13-	17-	- - -	-	-	3-1-1-4-1- - - - -3-3-3-2-	-1-	-	-	-	-	3.00
56-44.9356-109.0150-2-15-						0-W00736-05/26/77-13-	17-	- - -	-	-	2-1-1-4-1- - - - -3-3-3-2-	-1-	-	-	-	-	3.10
56-44.8958-109.0339-2-15-						0-W00737-05/26/77-13-	18-	- - -	-	-	6-1-6-4-1- - - - -3-2-2-2-	-1-	-	-	-	-	3.00
56-44.8950-109.0314-2-15-						0-W00738-05/26/77-13-	18-	- - -	-	-	4-1-6-4-1- - - - -3-2-2-2-	-1-	-	-	-	-	2.60
56-44.8597-109.0094-2-15-						0-W00739-05/26/77-14-	18-	- - -	-	-	6-1-6-4-1- - - - -3-2-2-2-	-1-	-	-	-	-	2.80
56-44.8581-109.0067-2-15-						0-W00740-05/26/77-14-	18-	- - -	-	-	7-1-6-4-1- - - - -3-2-2-2-	-1-	-	-	-	-	2.70
56-44.8644-109.0306-2-15-						0-W00741-05/26/77-14-	18-	- - -	-	-	3-1-6-4-1- - - - -3-2-2-2-	-1-	-	-	-	-	3.60
56-44.8692-109.0400-2-15-						0-W00742-05/26/77-14-	18-	- - -	-	-	3-1-6-4-1- - - - -3-2-2-2-	-1-	-	-	-	-	2.80
56-44.8731-109.1047-2-15-						0-W00743-05/26/77-15-	18-	- - -	-	-	7-1-6-4-1- - - - -3-2-3-2-	-1-	-	-	-	-	3.70
56-44.8708-109.1072-2-15-						0-W00744-05/26/77-15-	19-	- - -	-	-	6-1-6-4-1- - - - -3-2-3-2-	-1-	-	-	-	-	2.80
56-44.8361-109.1264-2-15-						0-W00745-05/26/77-15-	20-	- - -	-	-	3-1-1-4-1- - - - -3-2-2-3-	-1-	-	-	-	-	2.50
56-44.8358-109.1203-2-15-						0-W00746-05/26/77-16-	21-	- - -	-	-	5-1-1-4-1- - - - -3-2-3-3-	-1-	-	-	-	-	2.50
56-44.8394-109.1189-2-15-						0-W00747-05/26/77-17-	21-	- - -	-	-	4-1-1-4-1- - - - -3-2-3-3-	-1-	-	-	-	-	2.60
56-44.7850-109.1425-2-15-						0-W00748-05/27/77- 9-	17-	- - -	-	-	10-1-1-4-1- - - - -3-2-1-2-	-1-	-	-	-	-	3.30
56-44.7869-109.1350-2-15-						0-W00749-05/27/77- 9-	17-	- - -	-	-	4-1-1-4-1- - - - -3-2-1-2-	-1-	-	-	-	-	5.50

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)									Concentrations in weight ppm	
							Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.0969-109.3025-2-12-						0-W00698	-5	-5	-5	40	-20	15	16	-10	-15	2	20
56-44.1089-109.3511-2-12-						0-W00700	-5	-5	-5	17	-20	48	8	-10	-15	2	26
56-44.1256-109.3392-2-12-						0-W00701	-5	-5	-5	41	-20	-15	12	-10	-15	2	24
56-44.1253-109.2967-2-12-						0-W00702	-5	-5	-5	23	-20	-15	9	-10	-15	2	25
56-44.0919-109.2375-2-12-						0-W00703	-5	-5	-5	32	-20	40	-5	-10	-15	2	29
56-44.0939-109.2214-2-12-						0-W00704	-5	-5	-5	25	-20	-15	-5	-10	-15	2	28
56-44.1158-109.2181-2-12-						0-W00705	-5	-5	-5	31	-20	40	11	-10	-15	2	30
56-44.0597-109.2419-2-12-						0-W00706	-5	-5	-5	19	-20	-15	6	-10	-15	2	36
56-44.0811-109.1794-2-12-						0-W00707	-5	-5	-5	22	-20	36	13	-10	-15	2	26
56-44.0939-109.1433-2-12-						0-W00708	-5	-5	-5	26	-20	47	15	-10	-15	2	19
56-44.0214-109.1842-2-12-						0-W00709	-5	-5	-5	23	-20	27	11	-10	-15	2	23
56-44.0231-109.1861-2-12-						0-W00710	-5	-5	-5	31	-20	37	13	-10	-15	2	32
56-44.0350-109.1778-2-12-						0-W00711	-5	-5	-5	24	-20	18	7	-10	-15	2	39
56-44.0461-109.1786-2-12-						0-W00712	-5	-5	-5	29	-20	34	8	-10	-15	2	29
56-44.0536-109.1808-2-12-						0-W00713	-5	-5	-5	16	-20	16	-5	-10	-15	1	20
56-44.0356-109.1019-2-15-						0-W00714	-5	-5	-5	22	-20	-15	-5	-10	-15	2	27
56-44.0522-109.1119-2-12-						0-W00715	-5	-5	-5	21	-20	-15	5	-10	-15	2	51
56-44.0622-109.1264-2-15-						0-W00716	-5	-5	-5	16	-20	55	17	-10	-15	2	90
56-44.0656-109.1367-2-15-						0-W00717	-5	-5	-5	16	-20	17	7	-10	-15	-1	38
56-44.0789-109.1350-2-12-						0-W00718	-5	-5	-5	23	-20	31	15	-10	-15	2	34
56-44.0808-109.1428-2-12-						0-W00719	-5	-5	-5	24	-20	28	13	-10	-15	2	31
56-44.1142-109.0625-2-12-						0-W00720	-5	-5	-5	12	-20	-15	12	-10	-15	3	53
56-44.1581-109.0633-2-12-						0-W00721	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	15
56-44.0689-109.0056-2-15-						0-W00722	-5	-5	-5	21	-20	-15	13	-10	-15	2	25
56-44.0714-109.0078-2-12-						0-W00723	-5	-5	-5	14	-20	-15	7	-10	-15	2	14
56-44.0461-109.0117-2-15-						0-W00724	-5	-5	-5	13	-20	-15	9	-10	-15	1	18
56-44.1703-109.1006-2-12-						0-W00725	-5	-5	-5	17	-20	-15	7	-10	-15	1	26
56-44.1700-109.1094-2-12-						0-W00726	-5	-5	-5	15	-20	-15	6	-10	-15	2	19
56-44.1700-109.0231-2-12-						0-W00727	-5	-5	-5	21	-20	29	11	-10	-15	1	18
56-44.1375-109.0058-2-15-						0-W00728	-5	-5	-5	14	-20	-15	9	-10	-15	1	23
56-44.1844-109.0136-2-15-						0-W00729	-5	-5	-5	21	-20	-15	11	-10	-15	2	36
56-44.8981-109.1072-2-15-						0-W00730	-5	-5	-5	26	-20	-15	18	-10	-15	2	21
56-44.9325-109.0903-2-15-						0-W00731	-5	-5	-5	33	-20	20	14	-10	-15	2	29
56-44.9694-109.0558-2-15-						0-W00732	-5	-5	-5	24	-20	-15	9	-10	-15	1	22
56-44.9606-109.0467-2-15-						0-W00733	-5	-5	-5	39	26	21	11	-10	-15	2	33
56-44.9467-109.0264-2-15-						0-W00734	-5	-5	-5	19	21	21	5	-10	-15	2	21
56-44.9292-109.0194-2-15-						0-W00735	-5	-5	-5	21	22	-15	12	-10	-15	2	18
56-44.9356-109.0150-2-15-						0-W00736	-5	-5	-5	15	-20	-15	18	-10	-15	2	19
56-44.8958-109.0339-2-15-						0-W00737	-5	-5	-5	17	-20	25	9	-10	-15	2	31
56-44.8950-109.0314-2-15-						0-W00738	-5	-5	-5	19	31	19	6	-10	-15	2	22
56-44.8597-109.0094-2-15-						0-W00739	-5	-5	-5	13	-20	16	10	-10	-15	2	27
56-44.8581-109.0067-2-15-						0-W00740	-5	-5	-5	-10	-20	18	11	-10	-15	2	24
56-44.8644-109.0305-2-15-						0-W00741	-5	-5	-5	38	-20	26	13	-10	-15	2	41
56-44.8692-109.0400-2-15-						0-W00742	-5	-5	-5	16	27	-15	-5	-10	-15	2	20
56-44.8731-109.1047-2-15-						0-W00743	-5	-5	-5	44	24	46	10	-10	-15	2	44
56-44.8708-109.1072-2-15-						0-W00744	-5	-5	-5	28	-20	-15	12	-10	-15	2	22
56-44.8361-109.1264-2-15-						0-W00745	-5	-5	-5	26	-20	25	20	-10	-15	2	24
56-44.8358-109.1203-2-15-						0-W00746	-5	-5	-5	28	-20	20	15	-10	-15	2	27
56-44.8394-109.1189-2-15-						0-W00747	-5	-5	-5	18	-20	31	10	-10	-15	2	23
56-44.7850-109.1425-2-15-						0-W00748	-5	-5	-5	11	27	-15	14	-10	-15	2	19
56-44.7869-109.1350-2-15-						0-W00749	-5	-5	-5	10	-20	-15	12	-10	20	1	20

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.0969-	109.3025-2-	12-			0-W00699	99970	-0.06	1476	44770	73	-128	18.2	105	-1.6	-1	1.3	43850	3.4	13070	36	0.3
56-	44.1089-	109.3511-2-	12-			0-W00700	79830	-0.07	1318	44900	70	-124	23.4	265	-1.8	3	1.2	62980	5.3	11180	36	0.2
56-	44.1256-	109.3392-2-	12-			0-W00701	78600	-0.07	1145	41650	73	-108	20.2	130	-1.8	2	1.7	45820	4.3	13190	39	0.2
56-	44.1253-	109.2967-2-	12-			0-W00702	50350	-0.06	719	11390	104	-72	10.5	122	2.8	7	1.6	31480	24.6	17630	55	0.7
56-	44.0919-	109.2375-2-	12-			0-W00703	73210	-0.06	1299	31840	76	-113	19.2	246	2.7	3	1.2	49680	7.0	12110	35	0.2
56-	44.0939-	109.2214-2-	12-			0-W00704	53920	-0.05	885	28840	59	-93	10.3	99	2.4	3	1.0	25090	4.5	20950	28	0.2
56-	44.1158-	109.2181-2-	12-			0-W00705	73710	-0.07	1118	32920	95	-100	14.2	131	2.5	3	1.7	37620	5.9	14320	39	0.2
56-	44.0597-	109.2419-2-	12-			0-W00706	52650	-0.05	559	17950	76	-62	11.3	105	3.1	5	1.6	27530	11.9	14980	33	0.4
56-	44.0811-	109.1794-2-	12-			0-W00707	67280	-0.06	949	30860	78	-107	19.9	239	2.0	-1	1.1	53860	8.1	13580	39	0.3
56-	44.0939-	109.1433-2-	12-			0-W00708	57900	-0.05	648	16950	63	-93	12.5	125	3.7	5	1.3	27960	7.3	15630	35	0.3
56-	44.0214-	109.1842-2-	12-			0-W00709	89860	-0.07	1639	35770	88	-113	14.2	134	2.5	2	1.1	31460	4.2	13040	36	0.2
56-	44.0231-	109.1861-2-	12-			0-W00710	83330	-0.08	1098	41680	75	-103	20.6	254	-2.0	2	2.0	47000	4.5	11770	37	-0.1
56-	44.0350-	109.1778-2-	12-			0-W00711	59320	-0.05	758	14630	73	-87	11.0	105	3.8	4	1.3	30830	7.5	13460	31	-0.1
56-	44.0461-	109.1786-2-	12-			0-W00712	50110	-0.05	650	14260	61	-72	9.7	113	3.3	5	1.3	23250	9.2	19990	28	0.3
56-	44.0536-	109.1808-2-	12-			0-W00713	68220	-0.06	1096	30500	75	-94	11.7	155	-1.7	3	1.6	33900	12.1	14250	34	0.3
56-	44.0356-	109.1019-2-	15-			0-W00714	40920	-0.05	518	9291	50	-43	6.6	66	1.9	-1	1.1	18410	10.1	14220	27	0.3
56-	44.0522-	109.1119-2-	12-			0-W00715	41230	-0.04	584	8679	50	-54	5.7	64	2.7	4	1.2	16870	10.0	12580	24	0.3
56-	44.0622-	109.1264-2-	15-			0-W00716	66050	-0.06	941	20570	61	-69	11.1	143	6.0	5	0.9	30760	5.1	19210	32	0.3
56-	44.0656-	109.1367-2-	15-			0-W00717	56820	-0.06	644	84090	57	-61	6.4	60	3.5	4	1.1	19480	4.8	16470	26	0.3
56-	44.0789-	109.1350-2-	12-			0-W00718	74300	-0.07	1097	30110	76	-92	16.7	152	2.9	3	2.0	39140	6.6	14870	41	0.3
56-	44.0808-	109.1428-2-	12-			0-W00719	76370	-0.05	1163	30420	61	-106	12.7	127	-1.5	3	1.1	30150	6.0	13940	31	0.2
56-	44.1142-	109.0625-2-	12-			0-W00720	46510	-0.05	805	28060	53	-81	5.8	47	3.5	4	0.8	17840	7.3	15280	29	0.3
56-	44.1581-	109.0633-2-	12-			0-W00721	30620	-0.04	538	36350	81	-54	4.2	66	-1.0	4	1.3	15290	22.6	9502	36	0.4
56-	44.0689-	109.0056-2-	15-			0-W00722	38390	-0.05	508	11160	72	-36	6.1	53	3.3	4	1.2	13660	14.1	13560	31	0.4
56-	44.0714-	109.0078-2-	12-			0-W00723	34520	-0.04	528	13290	54	-44	11.5	52	3.1	4	1.1	14960	10.4	10790	24	0.3
56-	44.0461-	109.0117-2-	15-			0-W00724	30940	-0.03	379	49590	38	81	3.4	33	2.1	3	0.6	11660	8.6	12340	21	0.3
56-	44.1703-	109.1006-2-	12-			0-W00725	41740	-0.04	553	39500	58	141	5.2	46	2.4	3	1.2	13910	7.5	12680	23	0.2
56-	44.1700-	109.1094-2-	12-			0-W00726	32110	-0.05	527	33900	57	-60	5.8	72	2.0	3	1.2	16310	8.3	11580	30	0.3
56-	44.1700-	109.0231-2-	12-			0-W00727	59470	-0.06	745	40750	65	-96	15.2	163	-1.7	4	1.5	38360	13.7	12730	34	0.4
56-	44.1375-	109.0058-2-	15-			0-W00728	51190	-0.04	580	49820	49	73	3.5	30	3.4	4	1.1	13670	6.7	13780	24	0.3
56-	44.1844-	109.0136-2-	15-			0-W00729	48360	-0.05	1064	51150	61	115	7.8	38	3.4	4	1.4	21920	6.8	15820	26	0.3
56-	44.8981-	109.1072-2-	15-			0-W00730	44550	-0.04	630	22120	64	-71	8.2	67	2.5	4	1.3	18630	10.6	15870	29	0.4
56-	44.9325-	109.0903-2-	15-			0-W00731	50750	-0.05	613	19740	53	-57	7.1	59	3.0	4	1.1	20340	6.7	15610	25	0.3
56-	44.9694-	109.0558-2-	15-			0-W00732	42990	-0.05	587	19100	68	-56	8.2	76	2.6	4	1.4	22800	13.8	16100	31	0.4
56-	44.9606-	109.0467-2-	15-			0-W00733	53530	-0.05	652	12280	64	-58	6.7	63	4.2	5	1.4	19960	10.4	15510	28	0.4
56-	44.9467-	109.0264-2-	15-			0-W00734	38480	-0.04	513	10520	67	-62	5.4	56	2.0	4	1.1	17320	13.7	15450	30	0.3
56-	44.9292-	109.0194-2-	15-			0-W00735	39890	-0.05	505	12520	65	-58	5.6	62	1.9	4	1.1	16600	15.2	13370	31	0.4
56-	44.9356-	109.0150-2-	15-			0-W00736	40120	-0.05	565	11390	76	-54	8.2	72	2.8	4	1.4	23150	18.5	12870	36	0.5
56-	44.8958-	109.0339-2-	15-			0-W00737	58040	-0.05	633	15920	67	-62	9.0	75	4.5	4	1.3	25220	9.7	17070	29	0.3
56-	44.8950-	109.0314-2-	15-			0-W00738	39020	-0.04	519	9088	50	-56	5.9	42	2.2	4	1.1	14720	8.5	15030	26	0.3
56-	44.8597-	109.0094-2-	15-			0-W00739	48740	-0.05	602	25340	70	-63	7.6	60	2.5	4	1.3	19860	9.4	14280	28	0.3
56-	44.8581-	109.0067-2-	15-			0-W00740	45070	-0.05	555	29230	66	-58	7.7	69	3.1	4	1.3	23870	11.1	13870	35	0.4
56-	44.8644-	109.0306-2-	15-			0-W00741	56600	-0.05	753	19910	71	-64	12.5	77	5.1	6	1.6	27390	6.7	19680	32	0.4
56-	44.8692-	109.0400-2-	15-			0-W00742	37440	-0.04	733	19520	60	-69	7.5	75	-1.1	4	1.3	18740	14.2	14290	31	0.3
56-	44.8731-	109.1047-2-	15-			0-W00743	64170	-0.06	625	35850	79	-73	10.9	71	4.8	4	1.2	26350	6.8	19050	32	0.4
56-	44.8708-	109.1072-2-	15-			0-W00744	49220	-0.05	790	15660	72	-58	10.5	71	3.6	4	1.1	24190	10.8	18420	37	0.4
56-	44.8361-	109.1264-2-	15-			0-W00745	51920	-0.05	691	21940	64	-78	12.0	121	2.4	4	1.5	31060	10.9	14450	34	0.3
56-	44.8358-	109.1203-2-	15-			0-W00746	52820	-0.05	680	23900	56	-79	11.0	105	2.2	4	1.4	29480	10.1	14270	27	0.4
56-	44.8394-	109.1189-2-	15-			0-W00747	54430	-0.05	560	21900	73	-68	11.1	107	2.7	4	1.3	28800	9.6	16110	27	0.4
56-	44.7850-	109.1425-2-	15-			0-W00748	38650	-0.06	693	27200	89	-58	9.3	68	2.9	5	1.5	23220	20.9	11600	47	0.5
56-	44.7869-	109.1350-2-	15-			0-W00749	33220	-0.05	947	31160	150	-74	7.0	119	-1.2	7	1.8	29610	33.9	10600	73	0.7

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.0969-109.3025-2-12-					0-	W00699	30130	754	24200	-26	-1	13.3	4.7	-306	-1	-1	5.3	4179	119	-1.1	53	0.321
56-44.1089-109.3511-2-12-					0-	W00700	36950	815	22360	-30	-2	18.3	4.9	1084	-1	-1	7.0	5982	244	2.4	126	0.243
56-44.1256-109.3392-2-12-					0-	W00701	32790	678	21770	-27	-2	13.4	4.5	1357	-1	-1	5.9	4003	147	-1.7	-33	0.288
56-44.1253-109.2967-2-12-					0-	W00702	13060	560	9321	53	-2	10.1	7.7	-249	-1	-1	19.5	5578	70	7.4	-59	0.215
56-44.0919-109.2375-2-12-					0-	W00703	24770	706	18290	57	-2	13.9	4.3	735	-1	-1	7.1	6032	185	2.7	88	0.324
56-44.0939-109.2214-2-12-					0-	W00704	18980	450	13960	56	-1	9.2	4.6	696	-1	-1	7.8	2545	94	1.4	78	0.295
56-44.1158-109.2181-2-12-					0-	W00705	26770	501	20030	-26	-2	12.2	5.5	697	-1	-1	8.2	3879	127	2.5	-58	0.280
56-44.0597-109.2419-2-12-					0-	W00706	16100	379	7557	-25	-1	10.4	7.1	-207	-1	-1	12.4	4021	68	4.4	-34	0.250
56-44.0811-109.1794-2-12-					0-	W00707	32940	675	17780	47	-2	15.3	5.1	768	-1	-1	8.3	5143	192	2.9	128	0.277
56-44.0939-109.1433-2-12-					0-	W00708	23200	545	9513	-27	-2	9.1	5.4	-273	-1	-1	9.6	2924	97	2.3	108	0.333
56-44.0214-109.1942-2-12-					0-	W00709	33300	479	22560	-27	-2	9.5	4.8	1090	-1	-1	8.8	2997	72	2.0	92	0.273
56-44.0231-109.1861-2-12-					0-	W00710	32980	560	24540	-33	-2	13.3	4.6	1136	-1	-1	7.1	3752	108	-1.5	-36	0.239
56-44.0350-109.1778-2-12-					0-	W00711	15080	337	12140	57	-1	10.4	4.6	-220	-1	-1	10.2	3564	87	3.5	81	0.333
56-44.0461-109.1786-2-12-					0-	W00712	19940	335	5972	67	-1	8.1	5.0	-206	-1	-1	10.2	3134	64	3.0	-37	0.304
56-44.0536-109.1808-2-12-					0-	W00713	24170	516	17520	-24	-1	11.8	3.4	668	-1	-1	8.3	4116	118	2.5	-75	0.361
56-44.0356-109.1019-2-15-					0-	W00714	8988	152	4250	53	-1	6.1	4.5	-146	-1	-1	8.5	3010	50	3.1	-71	0.271
56-44.0522-109.1119-2-12-					0-	W00715	10470	169	4420	44	-1	6.0	3.8	-144	-1	-1	7.3	2853	71	3.0	-46	0.356
56-44.0622-109.1264-2-15-					0-	W00716	18910	356	6521	78	-1	10.9	5.5	-214	-1	-1	10.5	3323	168	2.7	145	0.314
56-44.0556-109.1367-2-15-					0-	W00717	19280	211	3035	-24	-1	7.7	4.4	430	-1	-1	7.1	3090	122	2.7	73	0.394
56-44.0789-109.1350-2-12-					0-	W00718	26280	442	17780	53	-2	14.3	6.0	979	-1	-1	9.9	3521	99	2.6	-39	0.232
56-44.0808-109.1428-2-12-					0-	W00719	21860	423	19460	-23	-1	10.7	4.2	1161	-1	-1	6.5	3702	95	2.0	111	0.338
56-44.1142-109.0625-2-12-					0-	W00720	21570	230	9014	60	-1	5.7	4.6	-199	-1	-1	9.0	2205	79	2.3	69	0.389
56-44.1581-109.0633-2-12-					0-	W00721	23010	322	6273	41	-1	5.1	5.8	-182	-1	-1	10.1	3786	58	3.8	39	0.337
56-44.0689-109.0056-2-15-					0-	W00722	11130	205	2404	-18	-1	6.0	5.3	-149	-1	-1	9.3	2482	56	3.8	92	0.301
56-44.0714-109.0078-2-12-					0-	W00723	13700	164	3004	42	-1	4.9	3.6	-132	-1		6.7	2118	55	2.4	74	0.373
56-44.0461-109.0117-2-15-					0-	W00724	31630	217	2127	34	-1	3.9	3.5	-142	-1	-1	6.9	1797	50	1.7	55	0.348
56-44.1703-109.1006-2-12-					0-	W00725	28160	354	7495	29	-1	5.1	3.8	-212	-1	-1	7.1	2203	64	2.7	51	0.338
56-44.1700-109.1094-2-12-					0-	W00726	25980	348	7447	43	-1	6.5	4.5	-191	-1	-1	8.0	2127	47	2.1	-48	0.250
56-44.1700-109.0231-2-12-					0-	W00727	34050	538	13940	-25	-1	15.6	4.7	964	-1	-1	7.4	5463	149	-1.1	120	0.338
56-44.1375-109.0058-2-15-					0-	W00728	34570	200	9445	53	-1	4.7	4.3	379	-1	-1	7.4	2776	66	1.9	81	0.378
56-44.1844-109.0136-2-15-					0-	W00729	34140	402	9256	58	-1	5.8	4.8	407	-1	-1	8.2	2574	82	2.5	144	0.402
56-44.8981-109.1072-2-15-					0-	W00730	20730	420	6797	43	-1	6.2	4.0	-212	-1	-1	7.6	3275	66	3.5	71	0.395
56-44.9325-109.0903-2-15-					0-	W00731	18910	323	6313	46	-1	7.1	4.2	-199	-1	-1	10.2	2815	84	3.6	67	0.255
56-44.9694-109.0558-2-15-					0-	W00732	16690	334	6593	65	-1	7.6	5.3	-137	-1	-1	11.6	2985	64	3.7		0.241
56-44.9606-109.0467-2-15-					0-	W00733	17030	240	5295	45	-1	7.8	5.1	-170	-1	-1	10.0	2916	94	3.2	70	0.290
56-44.9467-109.0264-2-15-					0-	W00734	11580	339	6161	43	-1	5.8	4.8	-174	-1	-1	11.5	2725	65	2.9	61	0.261
56-44.9292-109.0194-2-15-					0-	W00735	15070	364	6255	38	-1	5.5	4.8	-203	-1	-1	10.9	2975	64	3.6	51	0.275
56-44.9356-109.0150-2-15-					0-	W00736	14820	357	6224	54	-1	7.5	6.8	-184	-1	-1	14.1	3303	60	3.9	59	0.220
56-44.8958-109.0339-2-15-					0-	W00737	20450	313	5387	70	-1	8.7	5.0	-179	-1	-1	9.7	3322	91	2.9	-47	0.309
56-44.8950-109.0314-2-15-					0-	W00738	11600	131	6339	49	-1	4.9	4.5	-131	-1	-1	7.9	2532	51	3.0	72	0.329
56-44.8597-109.0094-2-15-					0-	W00739	19240	406	6695	57	-1	7.0	5.0	300	-1	-1	10.1	2665	69	3.0	-19	0.277
56-44.8581-109.0067-2-15-					0-	W00740	20370	433	6456	50	-1	7.7	5.0	-212	-1	-1	11.3	2827	60	3.2	63	0.239
56-44.8644-109.0306-2-15-					0-	W00741	26880	272	5584	69	-1	9.7	5.5	294	-1	-1	10.9	3862	104	3.2	109	0.330
56-44.8692-109.0400-2-15-					0-	W00742	15720	335	7555	41	-1	6.9	4.7	226	-1	-1	9.4	2918	65	3.1	76	0.298
56-44.8731-109.1047-2-15-					0-	W00743	23460	293	9722	65	-1	9.5	6.2	371	-1	-1	12.7	3817	100	2.4	129	0.291
56-44.8708-109.1072-2-15-					0-	W00744	16960	262	7059	102	-1	8.3	5.6	-184	-1	-1	9.5	3165	75	3.1	-30	0.295
56-44.8361-109.1264-2-15-					0-	W00745	25270	524	9578	51	-1	11.7	4.8	547	-1	-1	8.2	3420	113	3.7	65	0.305
56-44.8358-109.1203-2-15-					0-	W00746	25770	491	9240	58	-1	11.1	4.5	-210	-1	-1	8.6	3014	99	2.7	54	0.291
56-44.8394-109.1189-2-15-					0-	W00747	24150	485	8687	58	-1	10.8	5.1	353	-1	-1	9.1	3318	106	3.5	-26	0.286
56-44.7850-109.1425-2-15-					0-	W00748	18230	549	5526	-22	-1	7.7	6.6	-234	-1	-1	15.6	4123	56	4.5	-29	0.212
56-44.7869-109.1350-2-15-					0-	W00749	13150	603	6583	39	-1	7.2	10.5	-255	-1	1	34.3	5930	53	5.8	47	0.160

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	44.7928-	109.1228-	2-	15-		0-W00750-	05/27/77-	10-	18-		-	-	-	-	-	5-	1-	1-	4-	1-	-	-	-	-	-3-	2-	1-	2-	-1-	-	-	-	-	4.30
56-	44.7953-	109.1186-	2-	15-		0-W00751-	05/27/77-	10-	19-		-	-	-	-	-	8-	1-	1-	4-	1-	-	-	-	-	-3-	2-	2-	2-	-1-	-	-	-	-	2.60
56-	44.8044-	109.0617-	2-	15-		0-W00752-	05/27/77-	11-	20-		-	-	-	-	-	5-	1-	1-	4-	1-	-	-	-	-	-3-	2-	2-	2-	-1-	-	-	-	-	2.30
56-	44.8008-	109.0628-	2-	15-		0-W00753-	05/27/77-	11-	20-		-	-	-	-	-	4-	1-	1-	4-	1-	-	-	-	-	-3-	2-	2-	2-	-1-	-	-	-	-	2.90
56-	44.8008-	109.0539-	2-	15-		0-W00754-	05/27/77-	12-	20-		-	-	-	-	-	5-	1-	1-	4-	1-	-	-	-	-	-3-	2-	2-	2-	-1-	-	-	-	-	2.60
56-	44.7917-	109.0344-	2-	15-		0-W00755-	05/27/77-	12-	20-		-	-	-	-	-	4-	1-	4-	4-	1-	-	-	-	-	-3-	2-	3-	2-	-1-	-	-	-	-	4.80
56-	44.8092-	109.0308-	2-	15-		0-W00756-	05/27/77-	12-	20-		-	-	-	-	-	10-	1-	4-	4-	1-	-	-	-	-	-3-	2-	3-	2-	-1-	-	-	-	-	3.00
56-	44.8078-	109.0281-	2-	15-		0-W00757-	05/27/77-	13-	21-		-	-	-	-	-	9-	1-	4-	4-	1-	-	-	-	-	-3-	2-	3-	2-	-1-	-	-	-	-	2.90
56-	44.8131-	109.0256-	2-	15-		0-W00758-	05/27/77-	13-	20-		-	-	-	-	-	6-	1-	4-	4-	1-	-	-	-	-	-3-	2-	3-	2-	-1-	-	-	-	-	2.70
56-	44.8242-	109.0028-	2-	15-		0-W00759-	05/27/77-	13-	20-		-	-	-	-	-	8-	1-	4-	4-	1-	-	-	-	-	-3-	2-	3-	2-	-1-	-	-	-	-	2.90
56-	44.8433-	109.0389-	2-	15-		0-W00760-	05/27/77-	14-	21-		-	-	-	-	-	3-	1-	4-	4-	1-	-	-	-	-	-3-	2-	3-	2-	-1-	-	-	-	-	3.50
56-	44.8250-	109.0700-	2-	15-		0-W00761-	05/27/77-	14-	21-		-	-	-	-	-	9-	1-	4-	4-	1-	-	-	-	-	-3-	2-	3-	2-	-	-1-	-	-	-	2.70
56-	44.9164-	109.1361-	2-	12-		0-W00762-	05/27/77-	15-	19-	19.5-	-	-	6.1-	650-		2-	1-	1-	5-	7-	2-	2-	2-	2-	3-	1-	3-	-1-	-	-	-	-	5.50
56-	44.8983-	109.1425-	2-	12-		0-W00763-	05/27/77-	16-	20-	15.5-	-	-	5.9-	550-		8-	1-	1-	5-	6-	2-	3-	2-	3-	4-	3-	1-	2-	-1-	-	-	-	-	6.80
56-	44.8944-	109.1808-	2-	12-		0-W00764-	05/27/77-	17-	20-	15.0-	-	-	5.8-	500-		10-	1-	1-	5-	6-	2-	3-	2-	3-	4-	3-	1-	2-	-1-	-	-	-	-	6.40
56-	44.8950-	109.2089-	2-	12-		0-W00765-	05/27/77-	17-	20-	15.5-	-	-	5.9-	600-		6-	1-	1-	5-	6-	2-	3-	2-	3-	4-	3-	1-	2-	-1-	-	-	-	-	6.60
56-	44.8303-	109.3461-	2-	12-		0-W00766-	05/28/77-	10-	11-	8.0-	-	-	6.2-	750-		4-	2-	4-	4-	4-	3-	3-	1-	1-	3-	4-	5-	2-	-1-	-	-	-	-	5.10
56-	44.8394-	109.3367-	2-	12-		0-W00767-	05/28/77-	10-	11-	7.5-	-	-	6.0-	700-		4-	2-	4-	4-	4-	3-	3-	1-	1-	3-	4-	5-	2-	-1-	-	-	-	-	3.90
56-	44.8461-	109.3119-	2-	15-		0-W00768-	05/28/77-	12-	13-		-C-	-	-	-	-	2-	1-	4-	4-	4-	-	-	-	-	-3-	2-	5-	2-	-1-	-	-	-	-	1.60
56-	44.9022-	109.3236-	2-	12-		0-W00769-	05/28/77-	13-	12-	7.5-	-	-	5.8-	310-		8-	1-	4-	4-	4-	4-	4-	1-	2-	2-	4-	5-	3-	-1-	-	-	-	-	32.60
56-	44.9050-	109.3219-	2-	15-		0-W00770-	05/28/77-	13-	14-		-	-	-	-	-	6-	1-	4-	4-	4-	-	-	-	-	-3-	3-	5-	3-	-1-	-	-	-	-	2.60
56-	44.8997-	109.3008-	2-	15-		0-W00771-	05/28/77-	14-	14-		-	-	-	-	-	6-	1-	4-	4-	4-	-	-	-	-	-3-	3-	5-	3-	-1-	-	-	-	-	2.50
56-	44.9056-	109.2806-	2-	15-		0-W00772-	05/28/77-	14-	17-		-	-	-	-	-	5-	1-	4-	4-	4-	-	-	-	-	-3-	2-	4-	2-	-1-	-	-	-	-	3.10
56-	44.9053-	109.2161-	2-	12-		0-W00773-	05/28/77-	15-	18-	10.5-	-	-	6.5-	140-		6-	1-	4-	4-	4-	3-	3-	1-	2-	2-	3-	1-	2-	-1-	-	-	-	-	2.90
56-	44.9011-	109.2322-	2-	15-		0-W00774-	05/28/77-	15-	18-		-	-	-	-	-	4-	1-	4-	4-	3-	-	-	-	-	-3-	2-	4-	2-	-1-	-	-	-	-	2.60
56-	44.9542-	109.3144-	2-	12-		0-W00775-	05/28/77-	15-	18-	9.0-	-	-	6.7-	60-		3-	1-	4-	4-	4-	3-	3-	1-	2-	2-	3-	5-	2-	-1-	-	-	-	-	5.60
56-	44.9383-	109.3069-	2-	12-		0-W00776-	05/28/77-	16-	19-	9.5-	-	-	-	-		3-	1-	4-	4-	4-	3-	3-	1-	2-	2-	3-	5-	2-	-1-	-	-	-	-	3.70
56-	44.9350-	109.2639-	2-	12-		0-W00777-	05/28/77-	16-	18-	9.5-	-	-	-	-		4-	1-	4-	4-	4-	3-	3-	1-	2-	2-	3-	5-	2-	-1-	-	-	-	-	5.40
56-	44.9572-	109.2778-	2-	15-		0-W00778-	05/28/77-	16-	18-		-	-	-	-		6-	1-	4-	4-	4-	-	-	-	-	-3-	3-	4-	2-	-1-	-	-	-	-	3.20
56-	44.9281-	109.2419-	2-	12-		0-W00779-	05/28/77-	17-	19-	10.5-	-	-	-	-		4-	1-	4-	4-	4-	3-	3-	1-	2-	2-	3-	5-	2-	-1-	-	-	-	-	3.80
56-	44.9350-	109.2250-	2-	15-		0-W00780-	05/28/77-	17-	18-		-	-	-	-		6-	1-	4-	4-	4-	-	-	-	-	-3-	2-	4-	2-	-1-	-	-	-	-	2.80
56-	44.9494-	109.2092-	2-	15-		0-W00781-	05/28/77-	17-	17-		-	-	-	-		6-	1-	4-	4-	4-	-	-	-	-	-3-	2-	4-	2-	-1-	-	-	-	-	2.80
56-	44.9703-	109.2283-	2-	15-		0-W00782-	05/28/77-	18-	16-		-	-	-	-		5-	1-	4-	4-	4-	-	-	-	-	-3-	3-	4-	2-	-1-	-	-	-	-	2.80
56-	44.9872-	109.2653-	2-	15-		0-W00783-	05/28/77-	18-	16-		-	-	-	-		4-	1-	4-	4-	4-	-	-	-	-	-3-	3-	4-	2-	-1-	-	-	-	-	3.10
56-	44.9919-	109.2636-	2-	12-		0-W00784-	05/28/77-	18-	15-	10.0-	-	-	5.5-	35-		8-	1-	4-	4-	4-	3-	3-	1-	2-	2-	3-	5-	2-	-1-	-	-	-	-	5.70
56-	44.9925-	109.2594-	2-	12-		0-W00785-	05/28/77-	18-	15-	10.5-	-	-	5.7-	36-		12-	1-	4-	4-	4-	3-	3-	1-	2-	2-	3-	5-	2-	-1-	-	-	-	-	5.90
56-	44.9739-	109.2017-	2-	15-		0-W00786-	05/28/77-	19-	14-		-	-	-	-		11-	1-	4-	4-	4-	-	-	-	-	-3-	2-	4-	2-	-1-	-	-	-	-	2.60
56-	44.9867-	109.1881-	2-	15-		0-W00787-	05/28/77-	19-	15-		-	-	-	-		7-	1-	4-	4-	4-	-	-	-	-	-3-	2-	3-	2-	-1-	-	-	-	-	2.70
56-	44.7550-	109.2183-	2-	15-		0-W00788-	05/30/77-	9-	11-		-	-	-	-		6-	1-	1-	5-	1-	-	-	-	-	-3-	3-	3-	1-	-1-	-	-	-	-	2.70
56-	44.7631-	109.2133-	2-	15-		0-W00789-	05/30/77-	9-	11-		-	-	-	-		5-	1-	1-	4-	1-	-	-	-	-	-3-	3-	3-	1-	-1-	-	-	-	-	2.50
56-	44.7542-	109.2758-	2-	12-		0-W00790-	05/30/77-	10-	13-	9.0-	-	-	6.2-	550-		6-	1-	1-	4-	1-	3-	3-	1-	2-	4-	3-	5-	2-	-1-	-	-	-	-	2.80
56-	44.7556-	109.2800-	2-	12-		0-W00791-	05/30/77-	10-	13-	8.5-	-	-	6.0-	450-		4-	1-	1-	4-	1-	3-	3-	1-	2-	4-	3-	5-	2-	-1-	-	-	-	-	2.80
56-	44.7844-	109.2344-	2-	12-		0-W00792-	05/30/77-	11-	14-	9.0-	-	-	6.5-	500-		4-	1-	1-	4-	1-	3-	3-	1-	2-	3-	2-	4-	2-	-1-	-	-	-	-	2.60
56-	44.7900-	109.2450-	2-	15-		0-W00793-	05/30/77-	11-	13-		-	-	-	-		4-	1-	4-	4-	4-	-	-	-	-	-3-	2-	4-	2-	-1-	-	-	-	-	3.00
56-	44.8228-	109.2458-	2-	15-		0-W00794-	05/30/77-	11-	14-		-	-	-	-		6-	1-	4-	4-	4-	-	-	-	-	-3-	2-	4-	2-	-1-	-	-	-	-	2.90
56-	44.7744-	109.2933-	2-	15-		0-W00795-	05/30/77-	12-	15-		-	-	-	-		10-	1-	4-	4-	4-	-	-	-	-	-3-	2-	5-	2-	-1-	-	-	-	-	2.50
56-	44.7897-	109.2869-	2-	15-		0-W00796-	05/30/77-	12-	16-		-	-	-	-		12-	1-	4-	4-	4-	-	-	-	-	-3-	2-	5-	2-	-1-	-	-	-	-	2.40
56-	44.7989-	109.2797-	2-	15-		0-W00797-	05/30/77-	13-	17-		-	-	-	-		7-	1-	4-	4-	4-	-	-	-	-	-3-	2-	5-	2-	-1-	-	-	-	-	2.70
56-	44.8300-	109.2689-	2-	15-		0-W00798-	05/30/77-	14-	17-		-	-	-	-		6-	1-	4-	4-	4-	-	-	-	-	-3-	2-	5-	2-	-1-	-	-	-	-	2.70
56-	44.7564-	109.1450-	2-	15-		0-W00799-	05/30/77-	14-	18-		-	-	-	-		6-	1-	1-	4-	1-	-	-	-	-	-3-	2-	4-	2-	-1-	-	-	-	-	2.60
56-	44.8353-	109.4908-	2-	15-		0-W00800-	05/30/77-	15-	14-		-	-	-	-		4-	1-	1-	4-	1-	-	-	-	-	-1-	4-	5-	2-	-1-	-	-	-	-	2.70

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB. SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)									Concentrations in weight ppm	
							Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.7929-109.1228-2-15-						0-W00750	-5	-5	-5	14	-20	26	14	-10	-15	1	20
56-44.7953-109.1186-2-15-						0-W00751	-5	-5	-5	11	-20	41	14	-10	-15	2	24
56-44.8044-109.0617-2-15-						0-W00752	-5	-5	-5	23	-20	32	15	-10	-15	2	27
56-44.8009-109.0628-2-15-						0-W00753	-5	-5	-5	-10	29	-15	17	-10	-15	2	32
56-44.8008-109.0539-2-15-						0-W00754	-5	-5	-5	33	-20	30	11	-10	-15	2	33
56-44.7917-109.0344-2-15-						0-W00755	-5	-5	-5	21	-20	23	10	-10	-15	2	21
56-44.8092-109.0308-2-15-						0-W00756	-5	-5	-5	30	21	-15	19	-10	-15	2	28
56-44.8078-109.0281-2-15-						0-W00757	-5	-5	-5	10	27	21	12	-10	-15	2	27
56-44.8131-109.0256-2-15-						0-W00758	-5	-5	-5	25	-20	32	9	-10	-15	2	20
56-44.8242-109.0028-2-15-						0-W00759	-5	-5	-5	21	-20	37	11	-10	-15	2	20
56-44.8433-109.0389-2-15-						0-W00760	-5	-5	-5	18	-20	25	7	-10	-15	2	19
56-44.8250-109.0700-2-15-						0-W00761	-5	-5	-5	-10	31	-15	18	-10	-15	2	26
56-44.9164-109.1361-2-12-						0-W00762	-5	-5	6	17	-20	26	10	-10	-15	1	22
56-44.8983-109.1425-2-12-						0-W00763	-5	-5	-5	19	23	29	15	-10	-15	2	25
56-44.8944-109.1808-2-12-						0-W00764	-5	-5	-5	16	-20	43	17	-10	-15	2	22
56-44.8950-109.2089-2-12-						0-W00765	-5	-5	6	30	-20	33	-5	-10	-15	2	22
56-44.8303-109.3461-2-12-						0-W00766	-5	-5	-5	44	-20	23	7	12	-15	2	22
56-44.8394-109.3367-2-12-						0-W00767	-5	-5	-5	31	50	63	19	-10	-15	2	18
56-44.8461-109.3119-2-15-						0-W00768	-5	-5	-5	57	-20	43	18	-10	-15	2	25
56-44.9022-109.3236-2-12-						0-W00769	-5	-5	-5	32	-20	78	35	-10	16	2	19
56-44.9050-109.3219-2-15-						0-W00770	-5	-5	-5	26	-20	19	15	-10	-15	2	41
56-44.8997-109.3008-2-15-						0-W00771	-5	-5	-5	19	-20	35	9	-10	-15	2	45
56-44.9056-109.2806-2-15-						0-W00772	-5	-5	-5	39	-20	59	24	-10	-15	2	41
56-44.9053-109.2161-2-12-						0-W00773	-5	-5	-5	-10	-20	-15	6	-10	-15	1	21
56-44.9011-109.2322-2-15-						0-W00774	-5	-5	-5	23	-20	15	9	-10	-15	2	36
56-44.9542-109.3144-2-12-						0-W00775	-5	-5	-5	17	-20	29	10	-10	-15	1	18
56-44.9383-109.3069-2-12-						0-W00776	-5	-5	-5	11	-20	25	7	-10	-15	1	17
56-44.9350-109.2639-2-12-						0-W00777	-5	-5	-5	17	-20	-15	12	-10	-15	1	17
56-44.9572-109.2778-2-15-						0-W00778	-5	-5	-5	27	-20	24	12	-10	-15	2	36
56-44.9281-109.2419-2-12-						0-W00779	-5	-5	-5	16	-20	18	5	-10	-15	1	16
56-44.9350-109.2250-2-15-						0-W00780	-5	-5	-5	19	-20	25	12	-10	-15	2	28
56-44.9494-109.2092-2-15-						0-W00781	-5	-5	-5	22	-20	-15	21	-10	-15	1	21
56-44.9703-109.2283-2-15-						0-W00782	-5	-5	-5	22	-20	-15	11	-10	-15	1	22
56-44.9872-109.2653-2-15-						0-W00783	-5	-5	-5	21	-20	-15	14	-10	-15	2	28
56-44.9919-109.2636-2-12-						0-W00784	-5	-5	-5	13	-20	23	17	-10	-15	1	14
56-44.9925-109.2594-2-12-						0-W00785	-5	-5	-5	17	-20	37	9	-10	-15	1	15
56-44.9739-109.2017-2-15-						0-W00786	-5	-5	-5	26	-20	28	11	-10	-15	2	33
56-44.9867-109.1881-2-15-						0-W00787	-5	-5	-5	29	-20	27	20	-10	-15	2	30
56-44.7550-109.2183-2-15-						0-W00788	-5	-5	-5	22	-20	-15	13	-10	-15	2	27
56-44.7631-109.2133-2-15-						0-W00789	-5	-5	-5	22	-20	-15	7	-10	-15	2	20
56-44.7542-109.2758-2-12-						0-W00790	-5	-5	-5	18	-20	-15	8	-10	-15	2	23
56-44.7556-109.2800-2-12-						0-W00791	-5	-5	-5	17	-20	-15	5	-10	-15	2	24
56-44.7844-109.2344-2-12-						0-W00792	-5	-5	-5	13	-20	-15	5	-10	-15	2	27
56-44.7900-109.2450-2-15-						0-W00793	-5	-5	-5	22	-20	-15	16	-10	-15	2	22
56-44.8228-109.2458-2-15-						0-W00794	-5	-5	-5	17	-20	-15	13	-10	-15	2	24
56-44.7744-109.2933-2-15-						0-W00795	-5	-5	-5	11	-20	-15	6	-10	-15	1	15
56-44.7897-109.2869-2-15-						0-W00796	-5	-5	-5	20	-20	-15	12	-10	-15	1	16
56-44.7989-109.2797-2-15-						0-W00797	-5	-5	-5	20	-20	-15	15	-10	19	2	23
56-44.8300-109.2689-2-15-						0-W00798	-5	-5	-5	25	-20	15	10	-10	-15	2	21
56-44.7564-109.1450-2-15-						0-W00799	-5	-5	-5	17	-20	-15	16	-10	-15	2	19
56-44.8353-109.4908-2-15-						0-W00800	-5	-5	-5	26	-20	-15	12	-10	-15	2	49

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.7928-	109.1228-	2-	15-		0-W00750	35730	0.26	901	33910	91	-74	6.8	30	-1.1	6	0.9	20490	22.1	12130	44	0.5
56-	44.7953-	109.1186-	2-	15-		0-W00751	42220	-0.04	697	25720	57	102	5.8	50	-1.2	3	1.3	14800	7.7	16320	23	0.3
56-	44.8044-	109.0617-	2-	15-		0-W00752	45550	-0.05	663	25290	58	-67	9.3	55	3.3	3	1.3	21410	4.7	15050	27	0.3
56-	44.8008-	109.0628-	2-	15-		0-W00753	49370	-0.05	563	28680	65	-74	9.2	70	4.9	4	1.3	22160	7.1	16880	28	0.4
56-	44.8008-	109.0539-	2-	15-		0-W00754	52020	-0.07	617	29720	110	-79	19.8	126	7.0	4	2.6	46030	11.4	17750	58	0.6
56-	44.7917-	109.0344-	2-	15-		0-W00755	40390	-0.05	855	31060	128	-74	6.5	97	2.1	6	1.5	27890	28.5	11350	50	0.7
56-	44.8092-	109.0308-	2-	15-		0-W00756	50020	-0.06	635	27220	80	-67	9.1	95	3.7	4	1.5	26430	12.1	17980	41	0.4
56-	44.8078-	109.0281-	2-	15-		0-W00757	44100	-0.04	613	23580	66	-67	8.5	67	2.9	5	1.3	19370	10.2	16160	35	0.3
56-	44.8131-	109.0256-	2-	15-		0-W00758	40210	-0.04	604	19640	56	-68	5.5	50	1.6	4	1.2	16830	7.7	13310	28	0.3
56-	44.8242-	109.0028-	2-	15-		0-W00759	3473	-0.05	826	14790	86	-70	6.4	67	2.2	6	1.2	19360	11.7	12590	30	0.4
56-	44.8433-	109.0389-	2-	15-		0-W00760	25250	-0.03	675	19100	16	-66	1.8	15	-0.6	5	0.3	3975	4.6	12980	9	0.1
56-	44.8250-	109.0700-	2-	15-		0-W00761	51180	-0.05	640	20930	62	-75	7.2	67	2.7	5	1.2	22510	8.0	13770	28	0.3
56-	44.9164-	109.1361-	2-	12-		0-W00762	45200	-0.07	454	15580	82	-73	8.5	109	2.5	4	1.1	25180	12.0	14380	45	0.4
56-	44.8983-	109.1425-	2-	12-		0-W00763	52380	-0.07	536	19340	84	-81	10.8	119	-1.6	4	1.2	25590	11.0	15940	38	0.3
56-	44.8944-	109.1808-	2-	12-		0-W00764	49940	-0.07	592	21010	102	-75	10.5	157	-1.6	4	1.3	29790	14.7	14490	46	0.5
56-	44.8950-	109.2089-	2-	12-		0-W00765	48330	-0.08	434	18980	120	-88	14.4	190	-1.9	5	1.5	36480	18.8	14090	62	0.5
56-	44.8303-	109.3461-	2-	12-		0-W00766	82310	-0.08	1013	56340	53	-124	21.3	220	-2.1	-1	1.2	49040	3.0	13190	25	0.3
56-	44.8394-	109.3367-	2-	12-		0-W00767	74040	-0.08	988	63120	43	-111	22.6	271	-2.1	3	1.5	52040	2.9	11230	23	0.2
56-	44.8461-	109.3119-	2-	15-		0-W00768	65660	-0.09	726	71260	69	-95	25.7	296	-2.3	3	2.0	64520	4.0	14720	33	0.3
56-	44.9022-	109.3236-	2-	12-		0-W00769	55010	-0.09	388	25830	554	202	21.0	858	-2.1	20	3.2	68790	50.1	10490	336	1.3
56-	44.9050-	109.3219-	2-	15-		0-W00770	47570	-0.05	433	30540	57	-80	9.6	67	2.9	5	1.3	24940	7.1	16670	27	0.3
56-	44.8997-	109.3008-	2-	15-		0-W00771	47660	-0.05	438	66280	67	-73	8.8	62	2.6	4	1.2	23380	6.2	15760	26	0.3
56-	44.9056-	109.2806-	2-	15-		0-W00772	64140	-0.07	618	17230	100	-86	20.1	136	-2.0	5	1.7	44000	11.0	20180	50	0.4
56-	44.9053-	109.2161-	2-	12-		0-W00773	42190	-0.04	495	23090	68	-79	6.1	66	-1.0	3	0.6	18020	8.4	13860	34	0.3
56-	44.9011-	109.2322-	2-	15-		0-W00774	46070	-0.05	353	33530	60	-72	8.0	65	2.2	3	1.0	20870	7.2	14150	35	0.3
56-	44.9542-	109.3144-	2-	12-		0-W00775	42070	-0.06	459	19050	58	-71	7.3	89	1.1	4	1.1	19620	8.9	13010	29	0.3
56-	44.9383-	109.3069-	2-	12-		0-W00776	33090	-0.05	431	17310	69	-65	9.0	106	-1.4	3	1.1	25520	9.0	10560	32	0.3
56-	44.9350-	109.2639-	2-	12-		0-W00777	41000	-0.05	405	17960	53	-75	7.6	81	-1.2	3	0.9	19080	8.6	12630	29	0.3
56-	44.9572-	109.2778-	2-	15-		0-W00778	58850	-0.05	487	33960	81	-87	8.8	67	2.5	5	1.2	23950	10.1	16310	46	0.3
56-	44.9281-	109.2419-	2-	12-		0-W00779	37590	-0.05	416	19190	61	-69	6.7	77	-1.3	4	0.9	18230	8.0	10960	28	0.3
56-	44.9350-	109.2250-	2-	15-		0-W00780	59600	-0.06	564	32360	94	-75	12.2	82	3.0	4	1.3	29360	9.8	18020	42	0.3
56-	44.9494-	109.2092-	2-	15-		0-W00781	50140	-0.05	458	25580	93	-80	9.8	81	-1.2	4	1.1	23630	11.0	15480	44	0.4
56-	44.9703-	109.2283-	2-	15-		0-W00782	48540	-0.05	472	29130	98	-80	7.7	94	1.8	4	1.1	23250	10.5	15540	43	0.3
56-	44.9872-	109.2653-	2-	15-		0-W00783	49060	-0.05	521	30170	124	-73	8.6	91	-1.3	4	1.2	23850	13.2	14810	51	0.4
56-	44.9919-	109.2636-	2-	12-		0-W00784	44150	-0.06	404	16420	80	-69	10.9	114	-1.5	3	1.2	29640	9.4	14080	45	0.3
56-	44.9925-	109.2594-	2-	12-		0-W00785	43080	-0.05	359	16730	67	-77	8.9	102	-1.2	3	1.1	23240	6.7	12620	37	0.3
56-	44.9739-	109.2017-	2-	15-		0-W00786	56670	-0.05	509	27610	77	-84	9.8	88	3.0	4	1.3	27960	7.9	18000	40	0.2
56-	44.9867-	109.1381-	2-	15-		0-W00787	59940	-0.06	614	29440	82	-75	9.5	85	3.0	4	1.2	25200	7.6	17490	33	0.2
56-	44.7550-	109.2183-	2-	15-		0-W00788	45750	-0.05	546	25880	62	-52	5.1	38	3.5	4	1.1	16260	7.4	16070	25	0.3
56-	44.7631-	109.2133-	2-	15-		0-W00789	43790	-0.06	442	20440	67	-56	8.4	52	4.2	4	1.4	22690	10.2	15450	33	0.4
56-	44.7542-	109.2758-	2-	12-		0-W00790	39260	-0.05	470	91430	53	-79	6.6	52	2.2	5	1.2	17950	11.9	11460	23	0.3
56-	44.7556-	109.2800-	2-	12-		0-W00791	42560	-0.05	495	69510	49	-71	5.5	50	3.0	4	1.1	17520	10.6	13770	26	0.3
56-	44.7844-	109.2344-	2-	12-		0-W00792	43230	-0.05	600	54630	58	-67	5.9	47	3.6	4	1.1	16900	8.9	12060	23	0.3
56-	44.7900-	109.2450-	2-	15-		0-W00793	44310	-0.05	474	15840	67	-44	6.6	42	4.3	4	1.4	20630	11.0	12970	33	0.4
56-	44.8228-	109.2458-	2-	15-		0-W00794	44710	-0.04	461	17510	57	-46	5.5	39	3.5	5	1.3	17230	8.5	13570	24	0.3
56-	44.7744-	109.2933-	2-	15-		0-W00795	35880	-0.04	658	-379	39	-34	2.3	25	2.7	3	1.0	10620	5.5	15700	18	0.2
56-	44.7897-	109.2869-	2-	15-		0-W00796	34390	-0.04	678	2884	47	-33	1.9	33	2.8	3	1.1	10180	6.2	16350	22	0.2
56-	44.7989-	109.2797-	2-	15-		0-W00797	43170	-0.05	540	27510	67	-54	7.0	44	3.9	4	1.4	20020	12.3	13120	30	0.4
56-	44.8300-	109.2689-	2-	15-		0-W00798	45580	-0.04	590	29210	63	-56	6.8	48	3.4	5	1.3	17370	11.9	13930	31	0.4
56-	44.7564-	109.1450-	2-	15-		0-W00799	46900	-0.04	580	27500	56	-50	6.6	39	3.1	4	1.3	17050	10.5	16020	26	0.3
56-	44.8353-	109.4908-	2-	15-		0-W00800	61030	-0.07	575	30910	79	-74	9.9	78	5.5	5	1.4	24090	5.2	32190	35	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.7928-109.1229-2-15-						0-W00750	20290	603	6638	45	-1	5.9	7.3	-229	-1	-1	19.1	3818	56	4.0	88	0.225
56-44.7953-109.1186-2-15-						0-W00751	19110	395	7030	-16	-1	4.9	4.5	-217	-1	-1	8.5	2261	48	3.2		0.306
56-44.8044-109.0617-2-15-						0-W00752	16550	532	7742	77	-1	7.0	5.1	-239	-1	-1	9.5	2397	57	3.0	72	0.242
56-44.8008-109.0628-2-15-						0-W00753	19980	434	6602	72	-1	7.3	5.0	-224	-1	-1	9.6	3175	68	3.5	82	0.302
56-44.8008-109.0539-2-15-						0-W00754	21120	510	6902	130	-2	14.6	9.6	-235	-1	-1	18.3	3154	70	5.2	155	0.142
56-44.7917-109.0344-2-15-						0-W00755	17200	695	8302	48	-1	7.1	8.8	-272	-1	-1	25.8	5094	65	5.4	-44	0.186
56-44.8092-109.0308-2-15-						0-W00756	20140	489	7623	72	-1	8.6	5.6	-231	-1	-1	13.0	3641	64	3.4	38	0.231
56-44.8078-109.0281-2-15-						0-W00757	19890	440	6350	53	-1	5.4	4.9	-203	-1	-1	9.6	3519	58	2.9	65	0.302
56-44.8131-109.0256-2-15-						0-W00758	14250	436	6584	53	-1	5.3	4.7	-195	-1	-1	9.1	2271	53	2.8	111	0.297
56-44.8242-109.0028-2-15-						0-W00759	9431	661	9120	58	-1	6.9	5.1	-252	-1	-1	11.9	1803	17	3.5	83	0.244
56-44.8433-109.0389-2-15-						0-W00760	14070	573	8059	-10	-1	1.3	1.3	-238	-1		3.2	2852	40	1.0	-17	1.094
56-44.8250-109.0700-2-15-						0-W00761	15910	418	6957	61	-1	7.1	5.0	-210	-1	-1	11.2	2433	65	2.1	-38	0.241
56-44.9164-109.1361-2-12-						0-W00762	15760	287	11370	-27	-2	9.4	5.8	-213	-1	-1	18.9	2522	57	3.6	86	0.291
56-44.8983-109.1425-2-12-						0-W00763	21490	377	11830	-24	-2	9.9	7.1	369	-1	-1	16.7	2815	89	3.2	-96	0.407
56-44.8944-109.1808-2-12-						0-W00764	19250	402	11780	-24	-2	11.5	7.8	332	-1	-1	22.3	3368	103	3.7	62	0.287
56-44.8950-109.2089-2-12-						0-W00765	21590	377	11470	-31	-2	14.9	8.4	-222	-2	-1	29.9	3423	93	4.6	-37	0.221
56-44.8303-109.3461-2-12-						0-W00766	46290	740	22930	-30	-2	27.2	3.9	1128	-1	-1	6.2	4216	161	2.0	94	0.823
56-44.8394-109.3357-2-12-						0-W00767	54770	859	21040	-31	-2	32.0	4.0	983	-1	-1	6.2	4219	193	-1.6	-41	0.629
56-44.8461-109.3119-2-15-						0-W00768	63380	737	16350	-34	-2	27.4	5.6	388	-1	-1	8.7	4881	195	2.3	-41	0.184
56-44.9022-109.3236-2-12-						0-W00769	31750	731	19170	-36	-2	19.7	39.7	-303	-2	3	246.2	5465	145	10.8	-45	0.132
56-44.9050-109.3219-2-15-						0-W00770	27850	432	7754	62	-1	8.1	4.6	-229	-1	-1	10.5	2535	60	3.0	92	0.248
56-44.8997-109.3008-2-15-						0-W00771	26870	408	7526	50	-1	8.0	6.0	316	-1	-1	9.7	2706	59	3.0	-65	0.258
56-44.9056-109.2806-2-15-						0-W00772	24170	563	13800	89	-2	14.6	6.8	-265	-1	-1	19.8	3604	87	5.7	105	0.157
56-44.9053-109.2161-2-12-						0-W00773	21100	266	11770	-18	-1	5.6	4.5	-188	-1	-1	17.3	1891	44	3.5	32	0.168
56-44.9011-109.2322-2-15-						0-W00774	33850	317	7749	34	-1	5.7	4.7	265	-1	-1	14.8	2246	52	2.3	74	0.176
56-44.9542-109.3144-2-12-						0-W00775	22280	263	10400	-21	-1	7.1	6.1	-209	-1	-1	13.7	2311	51	3.3	83	0.409
56-44.9383-109.3069-2-12-						0-W00776	17890	253	10850	-22	-1	9.4	5.1	316	-1	-1	18.8	2029	44	-1.0	55	0.197
56-44.9350-109.2639-2-12-						0-W00777	19000	251	10020	-19	-1	5.9	3.8	-185	-1	-1	10.4	1989	53	2.4	-41	0.519
56-44.9572-109.2778-2-15-						0-W00778	28930	345	12340	47	-1	7.5	6.2	-204	-1	-1	23.8	2153	51	3.4	63	0.134
56-44.9281-109.2419-2-12-						0-W00779	18910	257	10660	-19	-1	5.9	4.4	-200	-1	-1	16.8	1932	53	3.1	64	0.226
56-44.9350-109.2250-2-15-						0-W00780	29210	354	13270	94	-1	9.0	5.2	-216	-1	-1	24.1	2627	55	5.2	-29	0.116
56-44.9494-109.2092-2-15-						0-W00781	23290	348	11730	55	-1	7.6	5.8	-200	-1	-1	24.9	2582	60	3.3	65	0.112
56-44.9703-109.2283-2-15-						0-W00782	17270	338	11980	41	-1	7.1	6.8	233	-1	-1	26.9	2115	62	3.2	56	0.104
56-44.9872-109.2653-2-15-						0-W00783	21820	342	11990	-20	-1	7.3	8.7	-212	-1	-1	34.2	2199	65	4.5	34	0.091
56-44.9919-109.2536-2-12-						0-W00784	19460	346	11960	47	-1	11.2	-0.6	414	-1	-1	21.5	2415	57	-1.1	-31	0.265
56-44.9925-109.2594-2-12-						0-W00785	16570	339	11590	35	-1	9.1	4.4	-194	-1	-1	15.1	2295	59	4.0	60	0.391
56-44.9739-109.2017-2-15-						0-W00786	21970	374	10900	58	-1	9.1	6.2	-202	-1	-1	20.0	2580	72	3.4	88	0.130
56-44.9867-109.1881-2-15-						0-W00787	26310	391	11100	41	-1	8.5	5.6	-228	-1	-1	17.8	2552	75	3.9	-76	0.152
56-44.7550-109.2193-2-15-						0-W00788	21020	327	4478	45	-1	5.8	4.5	-195	-1	-1	9.1	2819	66	2.3	-22	0.297
56-44.7631-109.2133-2-15-						0-W00789	19910	315	3997	70	-1	7.9	5.6	-181	-1	-1	10.7	2632	51	4.3	-51	0.234
56-44.7542-109.2758-2-12-						0-W00790	34980	427	5315	-22	-1	6.4	4.3	-225	-1	-1	6.9	2980	51	2.7	-26	0.406
56-44.7556-109.2800-2-12-						0-W00791	35330	437	5944	48	-1	6.3	5.1	-254	-1	-1	8.2	2472	55	2.6	81	0.341
56-44.7944-109.2344-2-12-						0-W00792	35260	440	5349	38	-1	5.9	4.4	475	-1	1	7.7	2629	64	2.6	65	0.338
56-44.7900-109.2450-2-15-						0-W00793	13630	213	2111	68	-1	7.3	5.2	-148	-1	-1	10.4	3046	63	3.8	-51	0.288
56-44.8228-109.2458-2-15-						0-W00794	15960	219	2150	53	-1	5.0	3.9	-147	-1	-1	7.4	2951	57	2.6	-57	0.392
56-44.7744-109.2933-2-15-						0-W00795	4571	55	2392	50	-1	4.1	3.4	-107	-1	1	7.2	3216	61	2.3	35	0.347
56-44.7897-109.2869-2-15-						0-W00796	7449	52	2261	52	-1	4.1	3.5	-100	-1	-1	7.5	3086	57	2.2	-32	0.320
56-44.7989-109.2797-2-15-						0-W00797	18930	278	3646	61	-1	7.0	5.3	-164	-1	-1	9.7	2979	60	2.7	-52	0.278
56-44.8300-109.2689-2-15-						0-W00798	15440	264	3590	46	-1	5.1	4.6	-160	-1	-1	7.6	2786	59	2.9	74	0.355
56-44.7564-109.1450-2-15-						0-W00799	19640	272	3849	48	-1	5.8	4.6	-181	-1	-1	8.6	3156	60	2.9	91	0.302
56-44.8353-109.4908-2-15-						0-W00800	27893	523	5314	-26	-2	9.7	5.7	440	-1	-1	8.5	4459	96	3.6	106	0.318

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	44.8142-	109.4581-2-11-				0-W00801-	05/30/77-	15-	13-	4.0-	-	-	6.3-	410-		2-	1-	1-	5-	1-	2-	2-	1-	1-	4-	3-	5-	2-	-1-	-	-	-	-	1.80
56-	44.8056-	109.4694-2-15-				0-W00802-	05/30/77-	16-	13-		-	-	-	-		3-	1-	1-	4-	1-	-	-	-	-	-1-	4-	5-	2-	-1-	-	-	-	-	2.50
56-	44.7967-	109.4467-2-12-				0-W00803-	05/30/77-	16-	13-	7.5-	-	-	6.3-	310-		4-	1-	1-	4-	1-	3-	3-	1-	1-	2-	3-	5-	2-	-	-	-	-	-	1.10
56-	44.7908-	109.4414-2-15-				0-W00804-	05/30/77-	17-	13-		-	-	-	-		5-	1-	1-	4-	1-	-	-	-	-	-1-	3-	5-	2-	-1-	-	-	-	-	1.30
56-	44.7564-	109.4808-2-12-				0-W00805-	05/30/77-	17-	15-	8.0-	-	-	6.8-	510-		5-	1-	1-	4-	1-	-	-	-	-	-2-	4-	5-	2-	-1-	-	-	-	-	2.00
56-	44.7669-	109.4600-2-15-				0-W00806-	05/30/77-	17-	15-		-	-	-	-		4-	1-	1-	4-	1-	-	-	-	-	-1-	2-	5-	2-	-1-	-	-	-	-	1.80
56-	44.7522-	109.4456-2-12-				0-W00807-	05/30/77-	17-	15-	13.0-	-	-	6.5-	550-		2-	1-	1-	4-	1-	3-	3-	1-	1-	2-	4-	5-	2-	-1-	-	-	-	-	2.30
56-	44.7522-	109.4192-2-12-				0-W00808-	05/30/77-	18-	15-	10.0-	-	-	6.3-	320-		3-	1-	1-	4-	1-	3-	3-	1-	1-	2-	4-	5-	2-	-1-	-	-	-	-	1.20
56-	44.7239-	109.3692-2-15-				0-W00809-	05/31/77-	10-	14-		-	-	-	-		2-	1-	4-	4-	4-	-	-	-	-	-4-	4-	5-	1-	-1-	-	-	-	-	2.30
56-	44.7411-	109.3239-2-11-				0-W00810-	05/31/77-	10-	15-	12.0-	-	-	6.5-	1400-		4-	1-	4-	4-	4-	2-	3-	2-	1-	1-	4-	5-	1-	-1-	-	-	-	-	2.10
56-	44.7186-	109.3583-2-11-				0-W00811-	05/31/77-	11-	16-	11.5-	-	-	6.3-	1250-		4-	1-	4-	4-	4-	2-	3-	2-	1-	1-	4-	5-	1-	-1-	-	-	-	-	2.10
56-	44.7111-	109.2950-2-12-				0-W00812-	05/31/77-	12-	17-	14.0-	-	-	6.8-	1900-		3-	1-	4-	4-	4-	2-	3-	5-	2-	4-	4-	5-	1-	-1-	-	-	-	-	2.30
56-	44.7206-	109.2531-2-15-				0-W00813-	05/31/77-	12-	18-		-	-	-	-		6-	1-	1-	4-	1-	-	-	-	-	-3-	2-	3-	1-	-1-	-	-	-	-	2.80
56-	44.7428-	109.2214-2-15-				0-W00814-	05/31/77-	13-	18-		-	-	-	-		6-	1-	1-	4-	1-	-	-	-	-	-3-	2-	3-	1-	-1-	-	-	-	-	3.10
56-	44.7108-	109.2414-2-12-				0-W00815-	05/31/77-	13-	19-	14.0-	-	-	6.3-	750-		3-	1-	1-	4-	1-	3-	3-	1-	1-	3-	3-	4-	2-	-1-	-	-	-	-	1.30
56-	44.7092-	109.2372-2-15-				0-W00816-	05/31/77-	14-	19-		-	-	-	-		5-	1-	1-	4-	1-	-	-	-	-	-3-	3-	4-	2-	-1-	-	-	-	-	2.90
56-	44.6872-	109.2669-2-12-				0-W00817-	05/31/77-	14-	19-	9.5-	-	-	6.5-	850-		4-	1-	1-	4-	1-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	2.30
56-	44.6897-	109.2978-2-12-				0-W00818-	05/31/77-	14-	19-	10.0-	-	-	6.5-	800-		4-	1-	1-	4-	1-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	3.30
56-	44.6856-	109.2642-2-12-				0-W00819-	05/31/77-	15-	19-	10.0-	-	-	6.2-	850-		4-	1-	1-	4-	1-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	2.40
56-	44.6806-	109.2672-2-11-				0-W00820-	05/31/77-	16-	15-	8.5-	-	-	6.9-	900-		5-	1-	1-	4-	1-	2-	2-	1-	2-	4-	3-	5-	2-	-1-	-	-	-	-	3.20
56-	44.6731-	109.2567-2-15-				0-W00821-	05/31/77-	16-	19-		-	-	-	-		2-	1-	1-	4-	1-	-	-	-	-	-3-	3-	5-	2-	-1-	-	-	-	-	2.70
56-	44.6714-	109.2525-2-12-				0-W00822-	05/31/77-	16-	19-	11.5-	-	-	6.8-	700-		5-	1-	1-	4-	1-	3-	3-	1-	1-	3-	3-	5-	2-	-1-	-	-	-	-	2.50
56-	44.6508-	109.2456-2-12-				0-W00823-	05/31/77-	17-	19-	13.0-	-	-	6.5-	850-		2-	1-	1-	4-	1-	3-	3-	1-	1-	3-	3-	5-	2-	-1-	-	-	-	-	2.10
56-	44.6497-	109.2611-2-12-				0-W00824-	05/31/77-	17-	19-	11.0-	-	-	6.5-	850-		5-	1-	1-	4-	1-	3-	3-	1-	1-	3-	3-	5-	2-	-1-	-	-	-	-	2.90
56-	44.7472-	109.1714-2-15-				0-W00825-	06/01/77-	9-	22-		-	-	-	-		6-	1-	1-	5-	1-	-1-	-	2-	3-	2-	4-	1-	-1-	-	-	-	-	-	2.60
56-	44.1936-	109.0167-2-15-				0-W00826-	05/30/77-	13-	12-		-	-	-	-		18-	4-	-4-	6-	-	-	-2-	4-	3-	3-	2-	-3-	-	-	-	-	-	4.90
56-	44.2078-	109.0189-2-12-				0-W00827-	05/30/77-	13-	13-	20.5-	-	-	7.8-	2350-		13-	4-	-6-	8-	2-	4-	2-	3-	4-	4-	3-	2-	-3-	-	-	-	-	-	3.30
56-	44.2328-	109.0378-2-12-				0-W00828-	05/30/77-	13-	11-	11.5-	C-	-	8.8-	500-		9-	-	-	-	-	-	-	-	-	-	-	-	-4-	-	-	-	-	-	2.40
56-	44.2519-	109.0897-2-12-				0-W00829-	05/30/77-	14-	10-	14.5-	C-	-	8.8-	125-		18-	4-	-2-	7-	3-	3-	1-	2-	2-	3-	3-	2-	-3-	-	-	-	-	-	2.40
56-	44.2683-	109.2136-2-12-				0-W00830-	05/30/77-	15-	15-	9.5-	-	-	9.0-	70-		22-	1-	4-	1-	7-	3-	3-	1-	2-	1-	3-	4-	2-	-1-	-	-	-	-	1.80
56-	44.2711-	109.2128-2-12-				0-W00831-	05/30/77-	15-	15-	13.5-	-	-	8.6-	70-		13-	1-	4-	1-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.60
56-	44.2754-	109.2025-2-12-				0-W00832-	05/30/77-	15-	15-	11.5-	-	-	8.4-	55-		9-	1-	4-	3-	6-	3-	3-	1-	2-	1-	3-	4-	2-	-1-	-	-	-	-	2.30
56-	44.2706-	109.1928-2-12-				0-W00833-	05/30/77-	16-	14-	11.5-	-	-	8.2-	75-		9-	4-	-2-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	-	2.10
56-	44.2667-	109.1522-2-12-				0-W00834-	05/30/77-	16-	16-	9.5-	C-	-	8.6-	240-		9-	4-	-3-	4-	3-	3-	2-	2-	1-	3-	3-	2-	-3-	-	-	-	-	-	3.80
56-	44.2869-	109.0417-2-12-				0-W00835-	05/30/77-	18-	18-	16.5-	-	-	8.4-	1200-		9-	4-	-3-	6-	3-	3-	1-	2-	2-	2-	4-	2-	-1-	-	-	-	-	-	2.60
56-	44.4769-	109.0186-2-15-				0-W00836-	05/31/77-	9-	15-		-C-	-	-	-		18-	4-	-5-	6-	-	-	-	-3-	3-	3-	2-	-9-	-	-	-	-	-	3.60
56-	44.4531-	109.0181-2-15-				0-W00837-	05/31/77-	9-	15-		-C-	-	-	-		18-	4-	-4-	6-	-	-	-	-3-	3-	3-	2-	-3-	-	-	-	-	-	2.80
56-	44.4492-	109.0150-2-15-				0-W00838-	05/31/77-	9-	17-		-	-	-	-		13-	4-	-5-	4-	-	-	-	-2-	4-	3-	2-	-2-	-	-	-	-	-	2.70
56-	44.4447-	109.0306-2-15-				0-W00839-	05/31/77-	9-	18-		-C-	-	-	-			-4-	-5-	4-	-	-	-	-2-	3-	3-	2-	-2-	-3-	-	-	-	-	-	2.30
56-	44.4167-	109.0142-2-15-				0-W00840-	05/31/77-	10-	19-		-	-	-	-		18-	4-	-3-	6-	-	-	-	-2-	3-	3-	3-	2-	-3-	-	-	-	-	-	4.00
56-	44.4156-	109.0114-2-15-				0-W00841-	05/31/77-	10-	20-		-	-	-	-		13-	1-	5-	4-	6-	-	-	-3-	4-	3-	3-	2-	-3-	-	-	-	-	-	3.10
56-	44.3639-	109.0494-2-12-				0-W00842-	05/31/77-	11-	20-	13.5-	-	-	8.2-	800-		9-	4-	-4-	6-	2-	3-	2-	2-	3-	3-	2-	2-	-3-	-	-	-	-	-	3.00
56-	44.3628-	109.0344-2-15-				0-W00843-	05/31/77-	11-	22-		-	-	-	-		9-	4-	-5-	6-	-	-	-	-2-	4-	3-	3-	2-	-3-	-	-	-	-	-	2.10
56-	44.3642-	109.0383-2-12-				0-W00844-	05/31/77-	11-	22-	24.5-	-	-	7.4-	25000-		18-	4-	-5-	6-	2-	4-	1-	2-	4-	4-	3-	2-	-1-	-3-	-	-	-	-	5.30
56-	44.3233-	109.0433-2-15-				0-W00845-	05/31/77-	12-	23-		-	-	-	-		18-	1-	1-	4-	6-	-	-	-2-	4-	3-	3-	1-	-3-	-	-	-	-	-	4.70
56-	44.2833-	109.1111-2-15-				0-W00846-	05/31/77-	13-	24-		-C-	-	-	-		18-	4-	-5-	6-	-	-	-	-2-	4-	3-	4-	1-	-4-	-	-	-	-	-	3.30
56-	44.3133-	109.0781-2-12-				0-W00847-	05/31/77-	13-	25-	13.5-	-	-	8.4-	450-		9-	4-	-4-	6-	3-	3-	2-	2-	2-	3-	3-	2-	-3-	-	-	-	-	-	3.30
56-	44.3150-	109.0742-2-15-				0-W00848-	05/31/77-	14-	23-		-	-	-	-		18-	1-	4-	4-	6-	-	-	-	3-	4-	3-	2-	1-	-3-	-	-	-	-	-	2.50
56-	44.3083-	109.0628-2-12-				0-W00849-	05/31/77-	14-	23-	22.5-	-	-	8.0-	2500-		13-	1-	6-	3-	6-	2-	4-	1-	2-	4-	3-	3-	1-	-3-	-	-	-	-	3.50
56-	44.3192-	109.0831-2-12-				0-W00850-	05/31/77-	14-	20-	20.5-	C-	-	8.6-	500-		9-	4-	-3-	6-	2-	3-	2-	1-	2-	2-	3-	2-	-3-	-	-	-	-	-	1.80
56-	44.3425-	109.0750-2-15-				0-W00851-	05/31/77-	14-	23-		-	-	-	-		13-	1-	2-	4-	6-	-	-	-2-	4-	3-	3-	2-	-3-	-	-	-	-	-	2.20

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.8142-109.4581-2-11-						0-W00901	-5	-5	-5	23	-20	25	7	-10	-15	2	15
56-44.8056-109.4594-2-15-						0-W00902	-5	5	-5	31	-20	20	11	-10	-15	3	65
56-44.7967-109.4467-2-12-						0-W00903	-5	-5	-5	45	-20	67	8	-10	-15	2	13
56-44.7908-109.4414-2-15-						0-W00904	-5	-5	-5	18	-20	-15	20	-10	-15	1	10
56-44.7664-109.4809-2-12-						0-W00905	-5	-5	-5	22	-20	17	11	-10	-15	1	20
56-44.7669-109.4600-2-15-						0-W00906	-5	-5	-5	22	-20	-15	-5	-10	-15	1	22
56-44.7522-109.4456-2-12-						0-W00907	-5	5	-5	44	-20	23	18	-10	-15	2	15
56-44.7522-109.4192-2-12-						0-W00908	-5	-5	-5	43	-20	21	10	-10	-15	2	18
56-44.7239-109.3692-2-15-						0-W00909	-5	-5	-5	32	-20	24	12	-10	-15	2	32
56-44.7411-109.3239-2-11-						0-W00910	-5	-5	-5	19	-20	-15	10	-10	-15	2	27
56-44.7186-109.3583-2-11-						0-W00911	-5	-5	-5	23	-20	25	-5	-10	-15	2	36
56-44.7111-109.2950-2-12-						0-W00912	-5	-5	-5	24	-20	-15	-5	-10	-15	1	37
56-44.7206-109.2531-2-15-						0-W00913	-5	-5	-5	17	-20	-15	7	-10	-15	2	28
56-44.7428-109.2214-2-15-						0-W00914	-5	-5	-5	29	-20	22	16	-10	-15	2	30
56-44.7108-109.2414-2-12-						0-W00915	-5	-5	-5	37	-20	25	13	-10	-15	2	17
56-44.7092-109.2372-2-15-						0-W00916	-5	-5	-5	15	-20	-15	7	-10	-15	1	36
56-44.6872-109.2669-2-12-						0-W00917	-5	-5	-5	23	-20	20	8	-10	15	1	23
56-44.6897-109.2978-2-12-						0-W00918	-5	-5	-5	17	-20	-15	15	-10	-15	2	33
56-44.6856-109.2642-2-12-						0-W00919	-5	-5	-5	25	-20	21	-5	-10	-15	2	23
56-44.6806-109.2672-2-11-						0-W00920	-5	-5	-5	10	-20	-15	5	-10	-15	2	17
56-44.6731-109.2567-2-15-						0-W00921	-5	-5	-5	14	-20	-15	-5	-10	-15	2	20
56-44.6714-109.2525-2-12-						0-W00922	-5	-5	-5	23	-20	-15	15	-10	-15	2	21
56-44.6508-109.2656-2-12-						0-W00923	-5	-5	-5	16	-20	-15	-5	-10	-15	2	24
56-44.6497-109.2611-2-12-						0-W00924	-5	-5	-5	14	-20	23	11	-10	-15	2	27
56-44.7472-109.1714-2-15-						0-W00925	-5	-5	-5	14	-20	30	10	-10	-15	2	23
56-44.1936-109.0167-2-15-						0-W00926	-5	-5	-5	16	-20	-15	6	-10	-15	2	17
56-44.2078-109.0189-2-12-						0-W00927	-5	-5	-5	18	-20	-15	11	-10	-15	2	49
56-44.2328-109.0378-2-12-						0-W00928	-5	-5	-5	23	-20	21	7	-10	-15	1	23
56-44.2519-109.0897-2-12-						0-W00929	-5	-5	-5	27	-20	22	12	-10	-15	2	23
56-44.2683-109.2136-2-12-						0-W00930	-5	-5	-5	37	-20	38	20	-10	-15	2	23
56-44.2711-109.2128-2-12-						0-W00931	-5	-5	-5	46	-20	33	7	-10	-15	1	21
56-44.2764-109.2025-2-12-						0-W00932	-5	5	-5	57	-20	-15	22	-10	-15	2	23
56-44.2706-109.1928-2-12-						0-W00933	-5	-5	-5	46	-20	33	14	-10	-15	2	22
56-44.2667-109.1522-2-12-						0-W00934	-5	-5	-5	20	-20	29	16	-10	-15	2	22
56-44.2869-109.0417-2-12-						0-W00935	-5	-5	-5	19	-20	-15	9	-10	-15	1	18
56-44.4769-109.0186-2-15-						0-W00936	-5	-5	-5	22	-20	-15	9	-10	-15	2	31
56-44.4531-109.0181-2-15-						0-W00937	-5	-5	-5	35	-20	20	15	-10	-15	2	31
56-44.4492-109.0150-2-15-						0-W00938	-5	-5	-5	32	-20	17	16	-10	-15	2	31
56-44.4447-109.0306-2-15-						0-W00939	-5	-5	-5	18	-20	-15	12	-10	-15	1	21
56-44.4167-109.0142-2-15-						0-W00940	-5	-5	-5	20	-20	-15	9	-10	-15	2	37
56-44.4156-109.0114-2-15-						0-W00941	-5	5	-5	23	-20	-15	13	-10	-15	1	37
56-44.3639-109.0494-2-12-						0-W00942	-5	-5	-5	17	-20	19	5	-10	-15	2	22
56-44.3629-109.0344-2-15-						0-W00943	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	15
56-44.3642-109.0383-2-12-						0-W00944	-5	7	-5	-10	-20	-15	9	-10	-15	2	17
56-44.3233-109.0433-2-15-						0-W00945	-5	-5	-5	15	-20	-15	7	-10	-15	2	17
56-44.2833-109.1111-2-15-						0-W00946	-5	-5	-5	12	-20	-15	7	-10	-15	2	43
56-44.3133-109.0781-2-12-						0-W00947	-5	-5	-5	18	-20	-15	9	-10	-15	3	43
56-44.3150-109.0742-2-15-						0-W00948	-5	-5	-5	19	-20	17	-5	-10	-15	2	29
56-44.3083-109.0628-2-12-						0-W00949	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	21
56-44.3192-109.0831-2-12-						0-W00950	-5	-5	-5	35	-20	26	16	-10	-15	1	14
56-44.3425-109.0750-2-15-						0-W00951	-5	-5	-5	20	-20	15	-5	-10	-15	1	25

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.8142-	109.4581-	2-	11-		0-W00890	52180	-0.07	782	107000	59	-99	12.3	109	2.9	3	0.9	29980	4.6	16860	27	0.2
56-	44.8056-	109.4694-	2-	15-		0-W00892	85120	-0.07	563	28460	86	-69	11.2	82	7.2	6	1.4	34790	3.9	39560	37	0.3
56-	44.7967-	109.4467-	2-	12-		0-W00893	76870	-0.07	930	65690	53	-109	22.1	262	-1.8	2	1.6	47740	2.6	15820	30	-0.1
56-	44.7908-	109.4414-	2-	15-		0-W00894	42680	-0.05	534	145600	45	-77	7.8	73	-1.3	3	0.9	19660	2.9	10520	15	0.2
56-	44.7664-	109.4808-	2-	12-		0-W00895	56410	-0.07	750	32010	66	-97	14.1	108	-1.7	4	1.7	33980	6.8	15930	30	0.3
56-	44.7669-	109.4600-	2-	15-		0-W00896	44460	-0.05	540	134700	47	113	7.9	62	1.8	4	1.1	20790	3.5	17600	20	0.2
56-	44.7522-	109.4456-	2-	12-		0-W00897	56490	-0.06	650	76920	49	-100	13.3	107	1.5	2	1.2	31970	3.5	15700	26	0.2
56-	44.7522-	109.4192-	2-	12-		0-W00898	74230	-0.08	1066	62800	60	-105	23.9	152	-2.0	3	1.6	56870	2.7	12060	27	0.1
56-	44.7239-	109.3692-	2-	15-		0-W00899	59560	-0.07	512	50150	59	-90	17.4	209	3.3	4	1.7	41100	7.3	11860	39	0.3
56-	44.7411-	109.3239-	2-	11-		0-W00910	37420	-0.05	409	52550	48	-94	7.6	58	3.1	3	1.1	19080	9.8	19170	20	0.3
56-	44.7186-	109.3583-	2-	11-		0-W00911	44750	-0.05	256	34570	50	-96	8.5	55	3.3	4	1.2	20440	9.8	15140	24	0.3
56-	44.7111-	109.2950-	2-	12-		0-W00912	36220	-0.05	364	61030	49	159	5.1	39	1.7	3	1.0	16840	7.7	15280	19	0.3
56-	44.7206-	109.2531-	2-	15-		0-W00913	49650	-0.05	509	35990	64	-63	6.1	43	4.3	4	1.3	20960	8.4	16180	31	0.3
56-	44.7428-	109.2214-	2-	15-		0-W00914	71550	-0.05	356	16830	59	-49	10.0	51	3.7	4	1.2	19900	8.8	10940	27	0.2
56-	44.7108-	109.2414-	2-	12-		0-W00915	31570	-0.08	1101	51940	54	-127	19.4	140	-2.0	3	1.7	48490	3.4	15360	25	0.2
56-	44.7092-	109.2372-	2-	15-		0-W00916	52190	-0.06	432	61430	64	-67	7.5	59	3.9	5	1.3	20110	5.3	15100	27	0.4
56-	44.6872-	109.2669-	2-	12-		0-W00917	40320	-0.06	510	61090	55	-73	9.9	92	-1.5	4	1.5	25750	9.5	9140	30	0.3
56-	44.6897-	109.2978-	2-	12-		0-W00918	47340	-0.05	480	49100	56	-68	7.8	49	3.9	5	1.2	20440	6.1	14690	23	0.3
56-	44.6856-	109.2642-	2-	12-		0-W00919	41960	-0.04	487	68860	43	-63	7.9	73	2.9	4	1.1	18550	7.3	11240	21	0.2
56-	44.6806-	109.2572-	2-	11-		0-W00920	39240	-0.05	795	35230	89	-62	5.8	59	-1.1	5	1.5	15180	18.5	13110	40	0.4
56-	44.6731-	109.2567-	2-	15-		0-W00921	31120	-0.05	766	50270	55	-62	9.5	106	-1.3	4	0.8	25050	17.2	8412	31	0.4
56-	44.6714-	109.2525-	2-	12-		0-W00922	39420	-0.05	612	55990	48	-70	6.9	78	2.4	4	1.2	19370	8.8	11840	22	0.3
56-	44.6508-	109.2656-	2-	12-		0-W00923	39050	-0.04	539	72490	41	-66	7.8	83	1.6	3	1.0	17870	6.5	12260	21	0.2
56-	44.6497-	109.2611-	2-	12-		0-W00924	42760	-0.05	522	51750	54	-63	7.7	73	3.2	4	1.1	20100	11.0	12060	25	0.3
56-	44.7472-	109.1714-	2-	15-		0-W00925	39310	-0.06	539	30950	74	-64	8.5	69	2.8	4	1.5	23280	13.1	13700	32	0.4
56-	44.1936-	109.0167-	2-	15-		0-W00926	33570	-0.05	642	25460	99	-75	6.2	91	1.8	6	1.7	18880	33.2	12530	50	0.7
56-	44.2078-	109.0189-	2-	12-		0-W00927	54370	-0.07	538	99760	51	-94	6.2	60	5.8	4	0.9	23650	3.8	15030	21	0.3
56-	44.2328-	109.0378-	2-	12-		0-W00928	42310	-0.06	541	48030	54	-71	5.9	62	2.9	4	1.0	17030	7.3	14140	21	0.2
56-	44.2519-	109.0897-	2-	12-		0-W00929	70100	-0.09	772	28470	78	-98	20.9	184	3.6	4	1.2	45220	6.7	16380	43	0.4
56-	44.2683-	109.2136-	2-	12-		0-W00930	82670	-0.28	1287	39820	59	-132	19.7	156	-2.0	3	1.5	45700	3.6	13410	-26	-0.2
56-	44.2711-	109.2128-	2-	12-		0-W00931	81540	-0.09	1149	44320	67	-141	27.8	146	-2.2	3	1.0	55970	3.0	13320	32	0.2
56-	44.2764-	109.2025-	2-	12-		0-W00932	86560	-0.08	1663	34030	93	-115	16.9	104	2.9	3	1.9	40360	4.6	22170	39	0.2
56-	44.2706-	109.1928-	2-	12-		0-W00933	80190	-0.11	1115	36130	84	-125	27.0	192	-2.8	3	1.1	54490	5.8	13490	42	0.2
56-	44.2667-	109.1522-	2-	12-		0-W00934	59840	-0.29	719	17870	108	-112	12.5	149	-2.1	6	1.7	36410	15.6	17100	-31	0.6
56-	44.2869-	109.0417-	2-	12-		0-W00935	46690	0.26	605	20980	62	-78	6.2	54	2.6	4	1.2	16670	9.2	15390	26	0.3
56-	44.4769-	109.0186-	2-	15-		0-W00936	48540	-0.07	659	14560	65	-95	8.9	68	3.1	4	1.5	22270	10.9	13090	26	0.4
56-	44.4531-	109.0181-	2-	15-		0-W00937	52790	-0.09	749	28230	78	-82	14.3	91	4.8	5	1.8	36050	7.7	19220	40	0.4
56-	44.4492-	109.0150-	2-	15-		0-W00938	60010	-0.17	551	24610	67	-75	9.3	52	3.8	4	1.4	24900	5.8	14130	64	0.3
56-	44.4447-	109.0306-	2-	15-		0-W00939	43380	-0.05	693	35840	51	-76	6.2	50	2.9	4	0.8	19090	8.7	11650	23	0.4
56-	44.4167-	109.0142-	2-	15-		0-W00940	43070	-0.06	817	27160	52	-88	8.3	47	2.3	5	1.4	23290	7.5	15160	25	0.3
56-	44.4156-	109.0114-	2-	15-		0-W00941	43830	-0.07	533	38000	58	322	8.4	53	3.9	4	0.9	21660	9.5	15090	29	0.4
56-	44.3639-	109.0494-	2-	12-		0-W00942	48560	-0.18	831	32120	93	-86	9.9	121	2.1	4	1.5	28910	19.5	13920	68	0.4
56-	44.3628-	109.0344-	2-	15-		0-W00943	41490	-0.04	532	11170	53	107	4.7	30	2.5	4	0.8	10860	4.6	12720	26	0.2
56-	44.3542-	109.0383-	2-	12-		0-W00944	42790	-0.06	856	12440	199	-77	6.2	61	1.9	7	2.0	19310	47.6	12790	83	0.9
56-	44.3233-	109.0433-	2-	15-		0-W00945	44100	-0.06	768	12630	202	-76	6.7	79	2.8	7	2.2	22690	40.9	14130	99	0.9
56-	44.2833-	109.1111-	2-	15-		0-W00946	56140	-0.21	581	20140	58	-105	6.1	44	4.3	4	1.2	16750	6.5	18730	-25	0.3
56-	44.3133-	109.0781-	2-	12-		0-W00947	54130	-0.05	572	19960	50	-77	6.3	43	4.8	5	0.8	17730	5.8	24610	27	0.3
56-	44.3150-	109.0742-	2-	15-		0-W00948	49840	-0.06	573	27350	56	92	4.2	37	4.0	3	1.2	14260	6.3	18210	24	0.3
56-	44.3083-	109.0628-	2-	12-		0-W00949	38210	-0.06	551	54070	73	119	5.2	54	3.6	4	1.6	20200	23.0	11840	41	0.4
56-	44.3192-	109.0831-	2-	12-		0-W00950	84200	-0.33	1234	46680	78	-135	24.8	211	-2.4	3	2.4	61290	4.2	13460	-34	-0.2
56-	44.3425-	109.0750-	2-	15-		0-W00951	51260	-0.06	731	27030	48	-97	8.1	82	2.0	4	1.4	21620	6.3	13590	28	0.2

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.8142-109.4581-2-11-						0-W00901	55450	405	10310	-27	-2	10.5	4.2	-253	-1	-1	7.1	2819	65	-1.2	136	0.254
56-44.8056-109.4694-2-15-						0-W00902	30970	328	3345	128	-2	12.8	5.3	-217	-1	-1	12.8	3669	77	3.4	91	0.195
56-44.7967-109.4467-2-12-						0-W00903	56540	771	20000	-28	-2	20.5	4.0	832	-1	-1	3.9	4134	155	-1.3	87	0.289
56-44.7908-109.4414-2-15-						0-W00904	62480	422	9200	-19	-1	7.6	2.8	389	-1	-1	3.6	2067	56	-1.0	-68	0.361
56-44.7664-109.4808-2-12-						0-W00905	34720	471	13210	-27	-2	14.1	5.7	761	-1	-1	9.3	3401	75	3.2	-34	0.215
56-44.7569-109.4600-2-15-						0-W00906	46780	517	6866	62	-1	7.7	4.1	-258	-1	-1	6.6	2169	46	2.9	49	0.273
56-44.7522-109.4456-2-12-						0-W00907	52040	901	11250	52	-1	12.0	3.7	-351	-1	-1	5.9	2935	118	1.9	131	0.390
56-44.7522-109.4192-2-12-						0-W00908	54380	966	18060	-29	-2	20.8	4.6	1217	-1	-1	4.3	5150	221	2.1	129	0.279
56-44.7239-109.3692-2-15-						0-W00909	54600	463	10260	-31	-2	15.4	5.6	-242	-1	-1	8.8	3335	95	2.6	-39	0.261
56-44.7411-109.3239-2-11-						0-W00910	43380	1252	5152	44	-1	5.7	-0.4	-337	-1	-1	7.4	2393	49	3.0	-28	0.284
56-44.7186-109.3583-2-11-						0-W00911	24260	1578	5552	65	-1	7.4	4.2	-448	-1	-1	6.8	2659	62	2.3	-28	0.309
56-44.7111-109.2950-2-12-						0-W00912	41010	403	8238	-21	-1	5.7	3.9	427	-1	-1	5.3	2696	46	2.9	24	0.434
56-44.7206-109.2531-2-15-						0-W00913	28130	307	5051	53	-1	6.6	5.5	-186	-1	-1	13.0	2356	44	3.1	78	0.215
56-44.7428-109.2214-2-15-						0-W00914	14660	335	1693	46	-1	9.4	3.8	-186	-1	-1	8.6	4705	96	3.3	69	0.360
56-44.7108-109.2414-2-12-						0-W00915	44390	832	24610	-31	-2	20.9	4.0	1400	-1	-1	3.7	4177	174	-1.5	-41	0.351
56-44.7092-109.2372-2-15-						0-W00916	23440	383	5053	40	-1	7.0	5.2	-233	-1	-1	8.7	3044	57	3.4	-56	0.333
56-44.6872-109.2669-2-12-						0-W00917	44480	335	5335	-25	-1	9.0	4.9	-201	-1	-1	8.9	2960	53	2.9	97	0.258
56-44.6897-109.2978-2-12-						0-W00918	22550	376	4399	-21	-1	5.7	-0.5	-207	-1	1	10.3	3016	56	2.6	47	0.320
56-44.6856-109.2642-2-12-						0-W00919	42790	367	5934	-19	-1	6.8	4.3	444	-1	-1	7.7	2412	60	3.0	66	0.312
56-44.6906-109.2672-2-11-						0-W00920	20780	356	8252	27	-1	5.8	6.1	-196	-1	-1	14.7	3000	43	3.6	42	0.218
56-44.6731-109.2567-2-15-						0-W00921	33770	367	4517	44	-1	8.2	4.7	-187	-1	-1	8.7	2461	56	3.2	-26	0.310
56-44.6714-109.2525-2-12-						0-W00922	34460	343	5518	-18	-1	6.9	3.7	-194	-1	-1	6.3	2292	54	2.4	-27	0.397
56-44.6508-109.2656-2-12-						0-W00923	51790	351	6735	-18	-1	6.8	3.7	-217	-1	-1	5.6	2578	53	2.2	-29	0.375
56-44.6497-109.2611-2-12-						0-W00924	36490	381	6309	29	-1	7.2	4.6	374	-1	-1	8.6	3053	61	3.4	77	0.337
56-44.7472-109.1714-2-15-						0-W00925	20610	391	5462	60	-1	7.9	5.5	-193	-1	-1	12.2	2631	54	3.5	-23	0.213
56-44.1936-109.0167-2-15-						0-W00926	15780	549	5998	52	-1	6.0	-0.5	-225	-1	-1	19.4	4500	51	5.7	29	0.253
56-44.2078-109.0189-2-12-						0-W00927	26790	487	4066	-33	-2	8.0	4.6	777	-1	-1	8.6	2751	121	-1.3	155	0.384
56-44.2328-109.0378-2-12-						0-W00928	32040	388	5458	46	-1	5.6	3.6	-250	-1	-1	6.5	2587	68	2.2	-68	0.369
56-44.2519-109.0897-2-12-						0-W00929	29810	611	16130	48	-2	17.4	5.4	461	-2	-1	10.8	4460	120	-1.7	53	0.222
56-44.2683-109.2136-2-12-						0-W00930	41300	756	21350	-37	-7	14.6	-2.7	1405	-1	-1	5.6	4232	151	-3.5	133	0.321
56-44.2711-109.2128-2-12-						0-W00931	49600	985	19790	-37	-2	19.4	4.6	1376	-1	-1	5.7	4626	170	-1.6	89	0.281
56-44.2764-109.2025-2-12-						0-W00932	34200	551	18340	65	-2	11.1	5.7	1147	-1	-1	10.9	4193	110	-1.9	-39	0.211
56-44.2706-109.1928-2-12-						0-W00933	41600	732	19020	-45	-3	13.7	5.3	1265	-2	-1	8.8	5334	152	2.5	-121	0.239
56-44.2667-109.1522-2-12-						0-W00934	13450	642	13520	-40	-7	13.6	9.5	-304	-1	-1	20.6	4982	75	5.3	-78	0.184
56-44.2869-109.0417-2-12-						0-W00935	15540	479	5225	50	-1	5.4	4.9	-249	-1	-1	9.8	2877	50	3.1	80	0.265
56-44.4769-109.0186-2-15-						0-W00936	13930	771	10950	-26	-2	6.6	5.0	-351	-1	-1	9.5	3140	76	3.2	66	0.379
56-44.4531-109.0181-2-15-						0-W00937	22960	548	7806	70	-2	12.1	6.4	-291	-1	-1	12.6	3427	93	-1.6	64	0.222
56-44.4492-109.0150-2-15-						0-W00938	18990	352	5891	-23	-4	9.3	6.8	-227	-1	-1	9.0	3259	78	-2.2	91	0.300
56-44.4447-109.0306-2-15-						0-W00939	18140	364	6251	57	-1	6.6	4.8	-211	-1	-1	7.1	3006	54	2.6	-81	0.324
56-44.4167-109.0142-2-15-						0-W00940	19800	1173	6221	44	-1	5.3	5.5	-408	-1	-1	8.1	1844	68	2.6	-54	0.494
56-44.4156-109.0114-2-15-						0-W00941	27110	402	13640	-28	-2	6.6	4.8	-274	-1	-1	9.3	1835	63	3.5	-73	0.333
56-44.3639-109.0494-2-12-						0-W00942	24340	509	11660	-25	-4	10.8	8.6	695	-1	-1	11.0	5003	105	4.7	54	0.273
56-44.3628-109.0344-2-15-						0-W00943	7067	235	11270	52	-1	3.9	3.9	-195	-1	-1	7.0	2224	38	2.2	-40	0.300
56-44.3642-109.0383-2-12-						0-W00944	7031	571	10590	-21	-1	6.0	14.0	-257	2	-1	22.2	3545	60	6.1	57	0.239
56-44.3233-109.0433-2-15-						0-W00945	7547	458	11620	-25	-1	6.8	12.6	-237	4	-1	22.5	5704	55	6.9	58	0.209
56-44.2833-109.1111-2-15-						0-W00946	17430	293	15230	66	-5	5.9	6.3	-240	-1	-1	9.8	3367	69	3.7	37	0.337
56-44.3133-109.0781-2-12-						0-W00947	19090	382	5973	74	-1	5.4	4.6	-218	-1		10.5	2758	71	3.0	99	0.314
56-44.3150-109.0742-2-15-						0-W00948	27020	263	6511	58	-1	5.0	3.8	-220	-1	-1	6.7	2292	71	2.4	-30	0.373
56-44.3083-109.0628-2-12-						0-W00949	35220	363	5270	-24	-1	5.9	5.7	-222	-1	-1	10.8	4017	66	4.1	115	0.324
56-44.3192-109.0831-2-12-						0-W00950	38790	807	21340	-46	-8	22.1	-3.3	956	-1	-1	6.8	4567	167	-4.2	166	0.265
56-44.3425-109.0750-2-15-						0-W00951	22670	305	12480	-23	-1	7.2	4.0	-229	-1	-1	6.4	2590	85	1.5	82	0.344

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU,ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	44.3450-	109.1050-	2-	12-		0-W00852-	05/31/77-	15-	20-	18.5-	-	-	8.4-	280-	9-	4-	-3-	6-	3-	3-	1-	2-	2-	2-	3-	2-	-3-	-	-	-	-	1.30
56-	44.3394-	109.1150-	2-	12-		0-W00853-	05/31/77-	16-	22-	17.5-	-	-	8.2-	260-	13-	4-	-2-	6-	3-	3-	1-	2-	2-	2-	2-	2-	-3-	-	-	-	-	1.70
56-	44.3231-	109.1509-	2-	15-		0-W00854-	05/31/77-	15-	24-	-	-	-	-	-	9-	4-	-3-	6-	-	-	-2-	4-	3-	4-	2-	-3-	-	-	-	-	-	2.10
56-	44.4172-	109.0678-	2-	15-		0-W00855-	05/31/77-	15-	24-	-	-	-	-	-	27-	1-	6-	4-	6-	-	-	-2-	4-	3-	3-	2-	-3-	-	-	-	-	2.60
56-	44.4219-	109.0881-	2-	15-		0-W00856-	05/31/77-	15-	23-	-	-	-	-	-	9-	4-	-4-	6-	-	-	-3-	3-	3-	2-	2-	-3-	-	-	-	-	-	3.00
56-	44.4158-	109.0847-	2-	12-		0-W00857-	05/31/77-	16-	21-	20.5-	C-	-	7.8-	31000+	4-	1-	6-	3-	6-	2-	3-	1-	2-	3-	2-	3-	2-	-3-	-	-	-	-	3.00
56-	44.3789-	109.0953-	2-	15-		0-W00858-	05/31/77-	17-	24-	-	-C-	-	-	-	9-	4-	-6-	3-	-	-	-3-	4-	3-	3-	2-	-4-	-	-	-	-	-	5.40
56-	44.4703-	109.0972-	2-	12-		0-W00859-	06/01/77-	9-	20-	11.5-	-	-	8.0-	2100-	4-	1-	4-	5-	6-	2-	3-	1-	2-	3-	3-	2-	1-	-3-	-	-	-	-	3.80
56-	44.4881-	109.0797-	2-	12-		0-W00860-	06/01/77-	9-	21-	15.5-	-	-	7.8-	1500-	13-	1-	4-	5-	6-	2-	3-	1-	2-	4-	3-	2-	1-	-3-	-	-	-	-	3.50
56-	44.4475-	109.0958-	2-	15-		0-W00861-	06/01/77-	10-	22-	-	-	-	-	-	13-	1-	1-	3-	6-	-	-	-2-	3-	4-	3-	1-	-3-	-	-	-	-	3.00
56-	44.4536-	109.1331-	2-	12-		0-W00862-	06/01/77-	10-	23-	14.5-	-	-	8.0-	800-	13-	4-	-5-	6-	4-	4-	4-	2-	4-	3-	2-	1-	-3-	-	-	-	-	2.70
56-	44.4733-	109.1397-	2-	15-		0-W00863-	06/01/77-	10-	22-	-	-	-	-	-	18-	1-	1-	4-	4-	-	-	-2-	3-	3-	3-	1-	-3-	-	-	-	-	2.60
56-	44.4836-	109.1203-	2-	15-		0-W00864-	06/01/77-	11-	25-	-	-	-	-	-	13-	1-	1-	4-	6-	-	-	-3-	4-	3-	4-	1-	-3-	-	-	-	-	2.60
56-	44.3714-	109.1258-	2-	12-		0-W00865-	06/01/77-	12-	23-	22.5-	-	-	8.4-	600-	4-	4-	-3-	6-	2-	3-	1-	2-	4-	3-	4-	1-	-3-	-	-	-	-	2.60
56-	44.3783-	109.1456-	2-	15-		0-W00866-	06/01/77-	12-	26-	-	-	-	-	-	9-	4-	-4-	6-	-	-	-3-	4-	3-	4-	1-	-3-	-	-	-	-	-	2.30
56-	44.3928-	109.1872-	2-	15-		0-W00867-	06/01/77-	12-	26-	-	-	-	-	-	13-	4-	-4-	6-	-	-	-3-	3-	3-	2-	1-	-3-	-	-	-	-	-	2.60
56-	44.3933-	109.1935-	2-	15-		0-W00868-	06/01/77-	12-	26-	-	-	-	-	-	9-	4-	-4-	6-	-	-	-3-	4-	3-	2-	1-	-3-	-	-	-	-	-	2.60
56-	44.3211-	109.2236-	2-	12-		0-W00869-	06/01/77-	13-	20-	10.0-	-	-	8.6-	100-	13-	4-	-3-	7-	4-	4-	3-	2-	1-	3-	4-	2-	-3-	-	-	-	-	2.60
56-	44.3369-	109.2094-	2-	12-		0-W00870-	06/01/77-	14-	19-	11.5-	-	-	8.2-	110-	9-	4-	-3-	7-	3-	3-	2-	2-	2-	3-	3-	2-	-3-	-	-	-	-	2.70
56-	44.3636-	109.1947-	2-	15-		0-W00871-	06/01/77-	14-	26-	-	-	-	-	-	13-	1-	1-	4-	1-	-	-	-4-	3-	4-	2-	-3-	-	-	-	-	-	4.30
56-	44.3611-	109.1928-	2-	12-		0-W00872-	06/01/77-	14-	20-	13.5-	-	-	8.0-	500-	4-	4-	-3-	6-	2-	3-	1-	2-	2-	3-	3-	2-	-3-	-	-	-	-	5.90
56-	44.3906-	109.2067-	2-	12-		0-W00873-	06/01/77-	15-	24-	23.5-	C-	-	8.0-	230-	9-	4-	-3-	7-	2-	3-	3-	2-	2-	3-	2-	2-	-3-	-	-	-	-	3.80
56-	44.3886-	109.2369-	2-	12-		0-W00874-	06/01/77-	15-	25-	20.5-	-	-	8.4-	190-	13-	4-	-3-	7-	3-	3-	3-	2-	2-	3-	3-	2-	-3-	-	-	-	-	2.80
56-	44.4050-	109.2681-	2-	12-		0-W00875-	06/01/77-	15-	27-	18.5-	-	-	8.4-	700-	9-	4-	-2-	7-	3-	3-	1-	2-	2-	3-	3-	2-	-3-	-	-	-	-	3.90
56-	44.4133-	109.2958-	2-	12-		0-W00876-	06/01/77-	16-	22-	25.5-	C-	-	7.6-	180-	9-	4-	-3-	6-	2-	2-	1-	2-	2-	3-	3-	2-	-3-	-	-	-	-	1.60
56-	44.6706-	109.6783-	2-	12-		0-W00877-	05/31/77-	18-	-	9.0-	-	-	6.6-	55-	4-	3-	7-	4-	6-	3-	2-	1-	2-	1-	4-	2-	2-	-1-	-	-	-	-	1.40
56-	44.7997-	109.5103-	2-	15-		0-W00878-	06/01/77-	10-	21-	-	-C-	-	-	-	13-	4-	-4-	6-	-1-	-	-2-	1-	3-	4-	1-	-1-	-1-	-	-	-	-	1.30
56-	44.6578-	109.7031-	2-	12-		0-W00879-	06/01/77-	12-	20-	8.5-	-	-	6.6-	65-	13-	3-	7-	4-	6-	3-	2-	1-	2-	1-	4-	5-	1-	-1-	-	-	-	-	1.00
56-	44.6681-	109.7478-	2-	12-		0-W00881-	06/01/77-	13-	19-	11.0-	-	-	6.9-	60-	13-	3-	7-	4-	6-	3-	2-	1-	-1-	3-	5-	1-	-1-	-	-	-	-	1.00
56-	44.6569-	109.6947-	2-	15-		0-W00882-	05/01/77-	13-	25-	-	-	-	-	-	4-	3-	7-	4-	6-	-1-	-2-	1-	3-	2-	1-	-1-	-	-	-	-	-	2.70
56-	44.6558-	109.7000-	2-	12-		0-W00883-	06/01/77-	13-	23-	9.0-	-	-	6.3-	150-	9-	3-	7-	4-	6-	2-	2-	1-	2-	1-	4-	2-	1-	-1-	-	-	-	-	2.70
56-	44.6639-	109.6836-	2-	12-		0-W00884-	06/01/77-	14-	23-	6.0-	C-	-	6.5-	120-	2-	4-	9-	4-	5-	2-	3-	1-	3-	1-	4-	2-	1-	-1-	-	-	-	-	2.90
56-	44.6644-	109.6686-	2-	12-		0-W00885-	06/01/77-	14-	18-	9.5-	-	-	5.7-	55-	9-	3-	7-	4-	6-	3-	2-	2-	2-	1-	4-	3-	1-	-1-	-	-	-	-	1.40
56-	44.6808-	109.6422-	2-	12-		0-W00886-	06/01/77-	15-	19-	13.5-	-	-	5.7-	50-	15-	3-	7-	4-	6-	3-	2-	2-	2-	1-	3-	2-	2-	-1-	-	-	-	-	1.20
56-	44.7039-	109.6047-	2-	12-		0-W00887-	06/01/77-	15-	23-	13.0-	-	-	6.6-	70-	9-	3-	7-	4-	6-	3-	2-	4-	2-	1-	2-	2-	2-	-1-	-	-	-	-	1.00
56-	44.6867-	109.5944-	2-	12-		0-W00888-	06/01/77-	16-	18-	10.0-	-	-	6.9-	70-	9-	1-	1-	4-	6-	4-	2-	2-	2-	1-	2-	3-	2-	-1-	-	-	-	-	1.20
56-	44.6856-	109.5981-	2-	12-		0-W00889-	06/01/77-	16-	16-	8.5-	-	-	6.6-	60-	6-	1-	1-	4-	6-	4-	2-	4-	2-	1-	2-	4-	2-	-1-	-	-	-	-	1.30
56-	44.7194-	109.5806-	2-	15-		0-W00890-	06/01/77-	17-	25-	-	-	-	-	-	13-	3-	7-	4-	6-	-1-	-2-	2-	3-	3-	2-	-1-	-	-	-	-	-	1.30
56-	44.4583-	109.5753-	2-	12-		0-W00891-	06/02/77-	10-	18-	8.0-	-	-	6.8-	70-	11-	3-	7-	4-	6-	3-	2-	4-	2-	1-	2-	3-	1-	-1-	-	-	-	-	1.10
56-	44.4506-	109.5961-	2-	12-		0-W00892-	06/02/77-	10-	20-	9.0-	-	-	6.9-	190-	6-	3-	6-	4-	6-	3-	2-	4-	2-	1-	2-	4-	1-	-1-	-	-	-	-	0.90
56-	44.4689-	109.6275-	2-	12-		0-W00893-	06/02/77-	10-	14-	10.5-	-	-	6.4-	75-	11-	3-	7-	4-	6-	3-	2-	4-	2-	2-	3-	2-	1-	-1-	-	-	-	-	1.20
56-	44.4717-	109.7000-	2-	12-		0-W00894-	06/02/77-	11-	23-	11.0-	-	-	7.2-	280-	9-	3-	6-	4-	6-	2-	2-	1-	2-	2-	2-	3-	1-	-1-	-	-	-	-	0.90
56-	44.4550-	109.7156-	2-	12-		0-W00895-	06/02/77-	11-	19-	11.5-	C-	-	6.9-	150-	4-	4-	9-	4-	6-	2-	2-	1-	2-	1-	3-	2-	1-	-1-	-	-	-	-	1.40
56-	44.4692-	109.7203-	2-	12-		0-W00896-	06/02/77-	12-	19-	15.0-	-	-	6.6-	80-	11-	3-	6-	4-	6-	3-	2-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	0.90
56-	44.4436-	109.7461-	2-	12-		0-W00897-	06/02/77-	12-	17-	11.0-	-	-	6.6-	60-	4-	3-	7-	4-	6-	4-	2-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.00
56-	44.4450-	109.7439-	2-	12-		0-W00898-	06/02/77-	12-	18-	16.0-	-	-	7.1-	225-	9-	3-	7-	4-	6-	3-	2-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.70
56-	44.4592-	109.5517-	2-	12-		0-W00899-	06/02/77-	13-	23-	16.0-	-	-	6.9-	190-	6-	3-	6-	4-	6-	2-	2-	1-	2-	1-	2-	3-	2-	-1-	-	-	-	-	6.20
56-	44.4592-	109.5414-	2-	15-		0-W00900-	06/02/77-	13-	29-	-	-	-	-	-	9-	3-	7-	4-	6-	-1-	-2-	1-	2-	3-	2-	-1-	-	-	-	-	-	1.30
56-	44.4494-	109.5256-	2-	12-		0-W00901-	06/02/77-	13-	21-	9.5-	-	-	6.9-	105-	11-	3-	7-	4-	6-	2-	2-	1-	2-	1-	2-	2-	2-	-1-	-	-	-	-	1.30
56-	44.4689-	109.5239-	2-	12-		0-W00902-	06/02/77-	14-	23-	14.0-	-	-	7.4-	360-	11-	-	-4-	5-	2-	2-	1-	2-	2-	3-	3-	2-	-1-	-	-	-	-	0.80
56-	44.4789-	109.5183-	2-	12-		0-W00905-	06/02/77-	17-	22-	15.0-	-	-	6.7-	80-	4-	3-	7-	4-	6-	3-	2-	1-	2-	2-	2-	2-	3-	-1-	-	-	-	-	1.00

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.3450-109.1050-2-12-					0-	W00952	-5	-5	-5	21	-20	23	7	-10	-15	2	19
56-44.3394-109.1150-2-12-					0-	W00953	-5	-5	-5	28	-20	40	-5	-10	-15	1	15
56-44.3231-109.1508-2-15-					0-	W00954	-5	-5	-5	18	-20	23	8	-10	-15	1	21
56-44.4172-109.0678-2-15-					0-	W00955	-5	-5	-5	12	-20	-15	-5	-10	-15	2	30
56-44.4219-109.0881-2-15-					0-	W00956	-5	-5	-5	-10	-20	-15	5	-10	-15	2	36
56-44.4158-109.0847-2-12-					0-	W00957	-5	-5	-5	24	-20	-15	12	-10	-15	2	37
56-44.3789-109.0953-2-15-					0-	W00958	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	31
56-44.4703-109.0972-2-12-					0-	W00959	-5	-5	-5	24	-20	-15	14	-10	-15	2	37
56-44.4881-109.0797-2-12-					0-	W00960	-5	-5	-5	16	-20	-15	6	-10	-15	2	23
56-44.4475-109.0958-2-15-					0-	W00961	-5	-5	-5	13	-20	-15	6	-10	-15	2	28
56-44.4536-109.1331-2-12-					0-	W00962	-5	-5	-5	14	-20	27	10	-10	-15	2	33
56-44.4733-109.1397-2-15-					0-	W00963	-5	-5	-5	19	-20	-15	7	-10	-15	2	26
56-44.4836-109.1203-2-15-					0-	W00964	-5	-5	-5	32	-20	26	14	-10	-15	1	26
56-44.3714-109.1258-2-12-					0-	W00965	-5	-5	-5	20	-20	32	9	-10	-15	1	25
56-44.3783-109.1456-2-15-					0-	W00966	-5	-5	-5	29	-20	59	6	-10	-15	1	19
56-44.3928-109.1872-2-15-					0-	W00967	-5	-5	-5	23	-20	29	13	-10	-15	2	39
56-44.3933-109.1936-2-15-					0-	W00968	-5	-5	-5	25	-20	19	6	-10	-15	2	29
56-44.3211-109.2236-2-12-					0-	W00969	-5	-5	-5	25	-20	35	6	-10	-15	1	23
56-44.3369-109.2094-2-12-					0-	W00970	-5	-5	-5	29	-20	24	11	-10	-15	2	25
56-44.3636-109.1947-2-15-					0-	W00971	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	23
56-44.3611-109.1928-2-12-					0-	W00972	-5	-5	-5	18	-20	16	9	-10	-15	1	27
56-44.3906-109.2067-2-12-					0-	W00973	-5	5	-5	29	-20	41	6	-10	-15	2	26
56-44.3886-109.2369-2-12-					0-	W00974	-5	-5	-5	25	-20	-15	9	-10	-15	2	23
56-44.4050-109.2681-2-12-					0-	W00975	-5	-5	-5	21	-20	57	10	-10	-15	2	16
56-44.4133-109.2958-2-12-					0-	W00976	-5	-5	-5	38	-20	26	5	-10	-15	2	15
56-44.6706-109.6783-2-12-					0-	W00977	-5	-5	-5	49	-20	-15	-5	-10	-15	2	19
56-44.7997-109.5103-2-15-					0-	W00978	-5	-5	-5	52	-20	47	10	-10	-15	2	15
56-44.6578-109.7031-2-12-					0-	W00979	-5	-5	-5	47	-20	38	-5	-10	-15	2	11
56-44.5681-109.7478-2-12-					0-	W00981	-5	-5	-5	40	-20	43	10	-10	-15	2	12
56-44.6569-109.6947-2-15-					0-	W00982	-5	-5	-5	67	-20	64	18	-10	-15	3	25
56-44.6558-109.7000-2-12-					0-	W00983	-5	-5	-5	22	-20	34	18	-10	-15	2	21
56-44.6639-109.6836-2-12-					0-	W00984	-5	-5	-5	50	-20	17	7	-10	-15	2	11
56-44.6644-109.6686-2-12-					0-	W00985	-5	-5	-5	68	-20	50	5	-10	-15	3	11
56-44.6808-109.6422-2-12-					0-	W00986	-5	-5	-5	70	-20	49	7	-10	-15	3	10
56-44.7039-109.6047-2-12-					0-	W00987	-5	-5	-5	63	-20	43	8	11	-15	3	9
56-44.6867-109.5944-2-12-					0-	W00988	-5	-5	-5	54	-20	39	9	-10	-15	3	10
56-44.6356-109.5981-2-12-					0-	W00989	-5	-5	-5	77	-20	45	-5	-10	-15	2	13
56-44.7194-109.5806-2-15-					0-	W00990	-5	-5	-5	56	-20	31	-5	-10	-15	2	12
56-44.4583-109.5753-2-12-					0-	W00991	-5	-5	-5	52	-20	38	-5	-10	-15	3	10
56-44.4506-109.5961-2-12-					0-	W00992	-5	-5	-5	70	-20	27	-5	-10	-15	3	8
56-44.4689-109.6275-2-12-					0-	W00993	-5	-5	5	92	-20	46	-5	-10	-15	3	10
56-44.4717-109.7000-2-12-					0-	W00994	-5	-5	-5	55	-20	22	6	-10	-15	2	11
56-44.4550-109.7156-2-12-					0-	W00995	-5	-5	-5	68	-20	18	-5	-10	-15	2	13
56-44.4692-109.7203-2-12-					0-	W00996	-5	-5	-5	74	-20	38	7	-10	-15	3	11
56-44.4436-109.7461-2-12-					0-	W00997	-5	-5	-5	38	-20	22	-5	-10	-15	3	15
56-44.4450-109.7439-2-12-					0-	W00998	-5	-5	5	32	-20	41	-5	-10	-15	3	9
56-44.4592-109.5317-2-12-					0-	W00999	-5	-5	-5	10	-20	-15	12	-10	-15	-1	10
56-44.4592-109.5414-2-15-					0-	W00900	-5	-5	-5	53	-20	16	-5	-10	-15	2	8
56-44.4494-109.5256-2-12-					0-	W00901	-5	-5	-5	54	-20	53	7	-10	-15	2	9
56-44.4689-109.5239-2-12-					0-	W00902	-5	-5	-5	41	-20	19	9	-10	-15	2	14
56-44.4789-109.5193-2-12-					0-	W00905	-5	-5	-5	39	-20	-15	11	-10	-15	1	7

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm))													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-44.3450-109.1050-2-12-						0-W00952	82150	-0.08	1251	50150	57	-109	16.9	174	-1.9	3	1.7	37940	3.3	11640	29	0.2
56-44.3394-109.1150-2-12-						0-W00953	75440	-0.10	1142	47000	78	-109	30.0	316	-2.6	3	1.4	67970	9.1	9368	43	0.4
56-44.3231-109.1508-2-15-						0-W00954	59660	-0.15	961	24700	55	-103	12.8	90	3.0	-1	1.3	27940	7.5	14790	-18	0.3
56-44.4172-109.0678-2-15-						0-W00955	42110	-0.04	589	11300	49	226	3.9	26	2.9	4	1.1	11530	5.0	20200	24	0.2
56-44.4219-109.0881-2-15-						0-W00956	48770	-0.05	821	11530	60	-61	4.9	37	2.6	3	1.3	15370	9.7	17270	26	0.3
56-44.4158-109.0847-2-12-						0-W00957	51170	-0.19	810	28480	53	-90	6.2	58	2.7	4	1.2	20550	6.8	14350	-24	0.3
56-44.3789-109.0953-2-15-						0-W00958	35980	-0.20	-156	107100	35	250	8.0	39	3.3	3	0.8	34830	2.8	10860	-26	0.2
56-44.4703-109.0972-2-12-						0-W00959	57770	-0.16	694	14580	60	-69	6.6	47	4.1	5	1.2	19760	7.8	17930	-19	0.3
56-44.4881-109.0797-2-12-						0-W00960	45910	-0.18	1576	15400	75	-61	9.4	96	2.5	4	1.9	26780	16.3	13050	61	0.4
56-44.4475-109.0959-2-15-						0-W00961	47840	-0.03	725	12570	49	-70	4.1	36	2.3	4	0.7	10920	5.6	16750	25	0.3
56-44.4536-109.1331-2-12-						0-W00962	51500	-0.05	798	21800	68	-63	8.2	79	2.7	4	1.2	24330	8.7	17340	27	0.3
56-44.4733-109.1397-2-15-						0-W00963	49510	-0.06	551	33030	49	-90	9.9	96	3.0	4	1.4	28980	7.6	13970	28	0.3
56-44.4836-109.1203-2-15-						0-W00964	54910	-0.06	903	24500	55	-89	13.7	127	2.7	3	1.5	36490	9.0	12790	29	0.3
56-44.3714-109.1258-2-12-						0-W00965	45090	-0.05	830	50470	57	-91	12.4	87	2.2	4	1.5	32070	7.9	14140	31	0.3
56-44.3783-109.1456-2-15-						0-W00966	59680	-0.06	797	29910	85	-82	16.5	188	-1.7	3	1.6	36310	9.3	13080	32	0.3
56-44.3928-109.1872-2-15-						0-W00967	61720	-0.07	896	27930	67	-83	8.3	66	4.5	4	1.3	21460	6.3	18720	31	0.3
56-44.3933-109.1936-2-15-						0-W00968	60130	-0.08	734	25200	72	-71	11.7	103	4.5	4	1.7	33240	9.7	18500	40	0.4
56-44.3211-109.2236-2-12-						0-W00969	77460	-0.26	1017	30770	74	-120	15.1	129	-1.9	4	1.4	37150	7.9	13310	-25	0.4
56-44.3369-109.2094-2-12-						0-W00970	72090	-0.07	921	20320	64	-108	14.0	102	2.6	4	0.9	31810	5.0	17820	31	0.3
56-44.3636-109.1947-2-15-						0-W00971	44130	-0.06	680	12560	64	-65	4.8	41	2.5	4	1.3	13960	24.5	19300	25	0.4
56-44.3611-109.1928-2-12-						0-W00972	53100	-0.09	1100	33650	167	-86	12.9	146	3.8	7	1.6	43290	44.4	15350	84	0.9
56-44.3906-109.2067-2-12-						0-W00973	59450	-0.28	738	24490	92	-97	15.9	145	3.8	6	1.7	37860	18.2	14110	105	0.6
56-44.3886-109.2369-2-12-						0-W00974	56730	-0.14	744	16010	67	-81	11.4	87	3.2	4	1.4	31060	6.7	17620	-14	0.3
56-44.4050-109.2681-2-12-						0-W00975	52220	-0.18	833	39510	102	-98	21.4	321	-1.7	5	1.7	61640	25.8	9876	62	0.5
56-44.4133-109.2958-2-12-						0-W00976	75560	-0.21	933	52750	59	-103	18.4	183	-2.0	3	1.5	44990	4.4	10480	-18	0.3
56-44.6706-109.6783-2-12-						0-W00977	82920	-0.27	1219	50010	79	-125	26.4	165	-2.6	3	2.1	61630	3.7	15180	51	0.4
56-44.7997-109.5103-2-15-						0-W00978	72190	-0.22	932	50970	73	-122	31.5	405	-2.1	3	1.9	64580	3.6	16340	46	-0.1
56-44.6578-109.7031-2-12-						0-W00979	81050	-0.20	1032	54350	50	-127	26.2	182	-1.9	3	1.7	58910	2.9	14810	-16	-0.1
56-44.6681-109.7478-2-12-						0-W00981	77090	-0.23	972	55050	54	-113	23.9	186	-2.1	3	1.6	57220	2.7	11500	-18	-0.2
56-44.6569-109.6947-2-15-						0-W00982	90910	-0.25	1550	32440	108	-119	30.2	400	5.8	3	2.7	79980	3.8	25630	72	-0.2
56-44.6558-109.7000-2-12-						0-W00983	78400	-0.16	1150	26940	98	-113	15.3	130	2.0	4	1.7	36210	9.5	18490	64	0.3
56-44.6639-109.6836-2-12-						0-W00984	81040	-0.23	1077	50260	61	-138	23.9	156	-2.3	3	1.7	56840	2.4	12040	43	-0.2
56-44.6644-109.6686-2-12-						0-W00985	73930	-0.24	1254	58290	57	-112	27.8	240	-2.2	2	1.8	68490	2.7	15110	-19	0.3
56-44.6808-109.6422-2-12-						0-W00986	69110	-0.30	1007	57650	70	-103	44.2	391	-2.7	2	2.1	106700	3.7	11480	-26	-0.2
56-44.7039-109.6047-2-12-						0-W00987	53200	-0.25	850	59680	60	-114	40.1	454	-2.3	3	1.9	107100	2.8	11080	-21	-0.2
56-44.6867-109.5944-2-12-						0-W00988	75510	-0.24	1050	59460	64	-122	33.4	324	3.8	3	1.8	76850	2.4	14200	34	-0.2
56-44.6856-109.5981-2-12-						0-W00989	93890	-0.22	1173	53370	55	-113	25.7	128	-2.0	3	1.6	56490	1.6	12670	-15	-0.2
56-44.7194-109.5806-2-15-						0-W00990	81670	-0.25	1300	51530	73	-108	32.1	212	-2.3	3	2.1	75050	3.2	15530	-21	-0.2
56-44.4583-109.5753-2-12-						0-W00991	70250	-0.24	957	55170	61	-118	40.2	442	-2.3	3	2.1	108900	2.6	13320	-20	-0.2
56-44.4506-109.5961-2-12-						0-W00992	72400	-0.22	1030	54200	48	-128	38.9	354	-2.1	2	1.6	108300	2.2	14020	-21	0.2
56-44.4689-109.6275-2-12-						0-W00993	53290	-0.26	805	53610	55	-104	40.2	671	-2.3	2	1.4	109000	2.2	9986	-20	-0.2
56-44.4717-109.7000-2-12-						0-W00994	95000	-0.29	994	63880	64	-119	39.9	184	-2.7	3	2.1	87790	3.6	14990	-27	-0.2
56-44.4550-109.7156-2-12-						0-W00995	79920	-0.22	1315	43370	69	-123	32.3	170	-2.1	3	1.9	68150	3.5	20370	53	0.3
56-44.4692-109.7203-2-12-						0-W00996	73050	-0.23	798	58430	51	-121	35.2	418	-2.2	-1	1.7	87560	2.3	15460	36	-0.2
56-44.4436-109.7461-2-12-						0-W00997	59380	-0.25	791	53850	51	-99	30.1	228	-2.3	2	1.6	74280	1.8	9143	-17	-0.2
56-44.4450-109.7439-2-12-						0-W00998	75060	-0.29	959	53590	49	-110	37.7	367	-2.6	2	1.3	101700	3.7	16500	33	-0.2
56-44.4592-109.5517-2-12-						0-W00999	26010	-0.13	372	67260	233	-54	3.6	152	-1.0	8	1.9	11600	37.7	13510	145	0.8
56-44.4592-109.5414-2-15-						0-W00900	78380	-0.23	1055	55930	61	-123	30.9	199	-2.2	2	2.0	77340	3.0	14220	-21	-0.1
56-44.4494-109.5256-2-12-						0-W00901	73180	-0.23	1022	47780	62	-129	38.1	382	-2.2	-1	1.7	87860	3.0	12460	36	-0.2
56-44.4689-109.5239-2-12-						0-W00902	79990	-0.21	824	58140	55	-106	20.2	116	-1.9	2	1.5	48460	2.4	10450	-17	-0.1
56-44.4789-109.5183-2-12-						0-W00905	82600	-0.26	954	52870	73	-108	31.6	180	-2.4	2	2.2	75730	3.4	12130	45	0.3

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	44.3450-	109.1050-	2-	12-		0-W00852	42550	631	22360	-27	-2	15.4	4.8	1210	-1	-1	5.0	3190	116	-1.5	-40	0.260
56-	44.3394-	109.1150-	2-	12-		0-W00853	44500	771	20580	86	-2	25.6	6.2	1092	-1	-1	9.9	5471	189	-2.1	-78	0.172
56-	44.3231-	109.1508-	2-	15-		0-W00854	24460	421	13760	55	-4	10.1	7.1	729	-1		6.7	3539	93	2.8	75	0.313
56-	44.4172-	109.0678-	2-	15-		0-W00855	9049	359	7341	-18	-1	3.7	4.0	-201	-1	-1	8.5	1355	43	2.3	60	0.306
56-	44.4219-	109.0881-	2-	15-		0-W00856	7829	182	9118	53	-1	4.6	5.3	-190	-1	-1	7.7	2450	71	2.8	58	0.390
56-	44.4158-	109.0847-	2-	12-		0-W00857	23070	293	9557	-28	-4	5.4	3.5	449	-1	-1	7.8	3013	97	-2.3	75	0.385
56-	44.3799-	109.0953-	2-	15-		0-W00858	19360	1549	5252	-30	-5	5.7	3.9	604	-1	-1	6.0	-1047	60	-2.5	51	0.900
56-	44.4703-	109.0972-	2-	12-		0-W00859	16020	422	9031	-20	-4	6.6	4.9	-228	-1	-1	10.1	2877	78	5.1	88	0.376
56-	44.4881-	109.0797-	2-	12-		0-W00860	14330	453	8874	-23	-4	9.2	7.0	-207	-1	-1	11.2	3452	77	3.6		0.313
56-	44.4475-	109.0953-	2-	15-		0-W00861	7072	359	11120	57	-1	4.3	4.0	-210	-1	-1	8.8	1780	39	2.0	53	0.341
56-	44.4536-	109.1331-	2-	12-		0-W00862	21350	322	9264	38	-1	8.2	5.5	529	-1	-1	8.2	3062	109	3.0	110	0.329
56-	44.4733-	109.1397-	2-	15-		0-W00863	27370	477	8895	-26	-1	9.0	4.5	747	-1	-1	7.2	3184	115	4.1	102	0.361
56-	44.4836-	109.1203-	2-	15-		0-W00864	23070	560	11560	43	-1	12.1	4.3	555	-1	1	5.8	3341	117	2.7	-24	0.448
56-	44.3714-	109.1258-	2-	12-		0-W00865	36090	531	14130	55	-1	10.9	4.8	528	-1	-1	8.0	3657	120	2.2	-66	0.325
56-	44.3783-	109.1456-	2-	15-		0-W00866	29970	440	14540	-24	-2	14.2	5.0	534	-1	-1	9.4	4236	122	3.1	58	0.245
56-	44.3928-	109.1872-	2-	15-		0-W00867	23130	345	10160	51	-2	7.4	4.7	-258	-1	-1	7.7	3148	94	-1.4	99	0.338
56-	44.3933-	109.1936-	2-	15-		0-W00868	25520	377	8638	76	-2	11.1	6.3	318	-1	-1	12.4	3635	102	2.9	-52	0.210
56-	44.3211-	109.2236-	2-	12-		0-W00869	30950	527	19220	-33	-5	13.3	7.2	813	-1	-1	9.6	4803	110	-3.2	110	0.271
56-	44.3369-	109.2094-	2-	12-		0-W00870	21810	503	14110	-28	-2	11.3	5.3	564	-1	-1	11.5	3471	79	-1.2	98	0.235
56-	44.3636-	109.1947-	2-	15-		0-W00871	8755	162	8454	56	-1	4.4	5.2	-186	-1	-1	8.7	3665	63	3.5	50	0.494
56-	44.3611-	109.1928-	2-	12-		0-W00872	28910	705	9899	78	-2	12.9	12.3	-310	-2	2	31.8	7435	103	6.8	208	0.186
56-	44.3906-	109.2067-	2-	12-		0-W00873	23050	561	10110	75	-7	12.4	8.4	-283	-1	-1	18.5	4224	102	5.4	-124	0.205
56-	44.3886-	109.2369-	2-	12-		0-W00874	13870	403	9310	85	-3	9.4	6.3	403	-1	-1	10.1	3083	102	4.2	48	0.277
56-	44.4050-	109.2681-	2-	12-		0-W00875	38350	956	13250	-31	-4	18.7	7.5	-272	-1	-1	15.4	6945	250	4.6	95	0.253
56-	44.4133-	109.2958-	2-	12-		0-W00876	49840	564	18750	-32	-5	21.2	5.0	987	-1	-1	5.6	4932	179	-3.3	-33	0.268
56-	44.6706-	109.6783-	2-	12-		0-W00877	44030	371	24330	-44	-7	27.8	-2.5	-362	-2	-1	5.5	5330	170	-3.5	118	0.255
56-	44.7997-	109.5103-	2-	15-		0-W00878	57360	750	17270	39	-6	27.1	4.0	885	-1	-1	4.9	4999	188	-2.9	-29	0.265
56-	44.6578-	109.7031-	2-	12-		0-W00879	47170	910	22360	-35	-5	25.5	5.1	923	-1	-1	3.2	4430	200	-2.7	96	0.313
56-	44.6681-	109.7478-	2-	12-		0-W00881	48460	741	21300	-34	-5	26.5	4.6	1378	-1	-1	2.9	5326	208	-3.0	-15	0.345
56-	44.6569-	109.6947-	2-	15-		0-W00882	48550	799	24420	-43	-6	25.0	-2.3	1231	-1	-1	9.4	4777	209	-3.4	168	0.287
56-	44.6558-	109.7000-	2-	12-		0-W00883	29490	507	19310	-28	-4	12.1	4.8	792	-1	-1	12.6	3923	94	-2.1	90	0.214
56-	44.6639-	109.6936-	2-	12-		0-W00884	45690	781	22450	-42	-6	23.6	-2.1	1160	-1	-1	4.1	4779	187	-3.1	128	0.707
56-	44.6644-	109.6686-	2-	12-		0-W00885	55230	1026	18300	-36	-6	27.9	4.9	984	-1	-1	4.2	5956	289	-3.2	-38	0.333
56-	44.6808-	109.6422-	2-	12-		0-W00886	114200	373	16270	-48	-7	44.4	6.8	895	-2	-1	5.5	7196	361	-3.9	142	0.218
56-	44.7039-	109.6047-	2-	12-		0-W00887	61130	1188	15580	-41	-6	42.2	6.4	735	-1	-1	3.4	8323	460	-3.1	-44	0.294
56-	44.6867-	109.5944-	2-	12-		0-W00888	52430	992	18550	-40	-6	32.7	5.6	985	-1	-1	3.8	5843	289	-3.1		0.316
56-	44.6956-	109.5981-	2-	12-		0-W00889	51590	969	19320	-35	-5	21.3	3.3	1167	-1	-1	5.7	5678	217	-2.9	38	0.229
56-	44.7194-	109.5806-	2-	15-		0-W00890	45610	979	21790	-41	-6	29.1	5.4	1032	-1	-1	5.5	6153	225	-3.3	-82	0.236
56-	44.4583-	109.5753-	2-	12-		0-W00891	56910	1137	17340	-40	-6	36.0	6.0	1026	-1	-1	4.6	9192	483	-3.1	-61	0.239
56-	44.4506-	109.5961-	2-	12-		0-W00892	45940	1150	18920	-42	-5	28.1	3.9	914	-1	-1	3.2	9410	596	-2.9	-26	0.281
56-	44.4689-	109.6275-	2-	12-		0-W00893	53920	1264	13340	-40	-6	33.7	4.1	809	-1	-1	3.6	9268	546	-3.4	-45	0.333
56-	44.4717-	109.7000-	2-	12-		0-W00894	53340	1096	20380	-48	-7	34.8	-2.5	1399	-2	-1	4.2	5640	271	-3.9	146	0.214
56-	44.4550-	109.7156-	2-	12-		0-W00895	51840	920	19550	-40	-6	23.6	6.5	1200	-1	-1	4.8	5941	196	-2.9	102	0.292
56-	44.4692-	109.7203-	2-	12-		0-W00896	60700	1087	17750	-41	-6	34.8	5.9	667	-1	-1	3.8	6893	391	-3.1		0.237
56-	44.4436-	109.7461-	2-	12-		0-W00897	55390	996	15280	-38	-6	31.3	3.7	869	-1	-1	2.3	6246	313	-3.3	-45	0.435
56-	44.4450-	109.7439-	2-	12-		0-W00898	46700	984	20770	-48	-7	33.6	-2.4	1111	-2	-1	3.7	8578	371	-3.8	-79	0.459
56-	44.4592-	109.5517-	2-	12-		0-W00899	33510	552	5158	-18	-3	4.8	18.6	-170	-1	1	89.1	2210	26	4.2	48	0.070
56-	44.4592-	109.5414-	2-	15-		0-W00900	42990	955	19990	-39	-6	30.1	4.8	1141	-1	-1	4.5	5405	261	-3.0	95	0.289
56-	44.4494-	109.5256-	2-	12-		0-W00901	50580	1038	18540	-42	-6	26.1	-2.1	1230	-1	-1	4.4	7036	359	-3.1	85	0.295
56-	44.4589-	109.5239-	2-	12-		0-W00902	39020	800	21900	-30	-5	24.2	3.6	1123	-1	-1	3.1	4059	171	-2.8	-36	0.258
56-	44.4789-	109.5183-	2-	12-		0-W00905	46810	937	22110	-42	-6	28.7	-2.3	1147	-2	-1	4.8	4865	194	-3.3	127	0.208

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																														U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	44.5000-	109.5156-	2-	12-	0-	W00907-	05/02/77-	18-	17-	9.5-	-	-	6.3-	40-	9-	3-	7-	4-	6-	4-	2-	4-	2-	1-	3-	3-	3-	-1-	-	-	-	-	0.90
56-	44.4811-	109.5081-	2-	12-	0-	W00908-	05/02/77-	19-	20-	10.5-	C-	-	6.5-	40-	9-	3-	6-	4-	6-	4-	2-	4-	2-	2-	3-	3-	3-	-3-	-	-	-	-	1.00
56-	44.4581-	109.7544-	2-	12-	0-	W00910-	05/03/77-	10-	17-	9.5-	-	-	6.9-	110-	4-	3-	6-	4-	6-	3-	2-	1-	2-	1-	2-	3-	1-	-1-	-	-	-	-	1.20
56-	44.4583-	109.7903-	2-	12-	0-	W00911-	05/03/77-	10-	20-	9.0-	-	-	6.4-	45-	11-	3-	7-	4-	6-	4-	2-	2-	2-	1-	2-	3-	1-	-1-	-	-	-	-	1.00
56-	44.4556-	109.8356-	2-	12-	0-	W00912-	05/03/77-	11-	14-	8.0-	-	-	6.5-	60-	6-	-	-	4-	6-	3-	2-	1-	2-	1-	2-	3-	2-	-1-	-	-	-	-	1.10
56-	44.4508-	109.8583-	2-	12-	0-	W00913-	05/03/77-	11-	13-	7.0-	-	-	6.9-	55-	13-	3-	7-	4-	6-	4-	2-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.20
56-	44.4333-	109.8650-	2-	12-	0-	W00914-	05/03/77-	11-	13-	7.0-	-	-	6.5-	50-	9-	3-	7-	4-	6-	4-	2-	1-	2-	1-	3-	4-	2-	-1-	-	-	-	-	1.30
56-	44.4644-	109.8581-	2-	12-	0-	W00915-	05/03/77-	12-	20-	14.0-	-	-	6.9-	90-	9-	3-	7-	4-	6-	3-	2-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.10
56-	44.4736-	109.8944-	2-	12-	0-	W00916-	05/03/77-	12-	16-	9.5-	-	-	7.1-	40-	13-	3-	7-	4-	6-	4-	2-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.20
56-	44.4944-	109.9333-	2-	12-	0-	W00917-	05/03/77-	12-	21-	10.0-	-	-	6.6-	45-	13-	3-	7-	4-	6-	4-	2-	2-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.10
56-	44.4875-	109.9306-	2-	12-	0-	W00918-	05/03/77-	13-	16-	9.0-	-	-	6.4-	40-	18-	3-	7-	4-	6-	4-	2-	1-	2-	1-	3-	4-	2-	-1-	-	-	-	-	1.50
56-	44.5067-	109.9622-	2-	12-	0-	W00920-	05/03/77-	17-	21-	11.5-	-	-	6.5-	45-	6-	3-	6-	4-	6-	3-	2-	4-	2-	1-	3-	4-	2-	-1-	-	-	-	-	0.90
56-	44.4931-	109.9917-	2-	12-	0-	W00921-	05/03/77-	16-	19-	9.5-	-	-	5.3-	40-	11-	3-	7-	4-	6-	3-	2-	2-	2-	1-	3-	2-	2-	-1-	-	-	-	-	1.70
56-	44.5131-	109.9217-	2-	12-	0-	W00922-	05/04/77-	10-	17-	5.0-	-	-	6.3-	31-	11-	3-	7-	4-	6-	4-	2-	1-	2-	1-	4-	3-	1-	-1-	-	-	-	-	1.40
56-	44.5142-	109.9183-	2-	12-	0-	W00923-	06/04/77-	10-	20-	7.0-	-	-	6.1-	42-	11-	3-	7-	4-	6-	4-	2-	2-	2-	1-	4-	3-	1-	-1-	-	-	-	-	1.10
56-	44.5042-	109.9544-	2-	15-	0-	W00924-	06/04/77-	11-	26-	-	C-	-	-	-	6-	3-	6-	7-	6-	-	1-	-	2-	1-	3-	3-	1-	-1-	-	-	-	-	2.50
56-	44.3878-	109.3175-	2-	15-	0-	W00927-	05/01/77-	16-	25-	-	-	-	-	-	4-	1-	6-	3-	6-	-	-	-	2-	2-	3-	3-	2-	-3-	-	-	-	-	2.00
56-	44.3842-	109.2625-	2-	12-	0-	W00928-	05/01/77-	17-	27-	27.5-	-	-	8.6-	550-	4-	-	3-	6-	2-	3-	1-	2-	4-	3-	3-	2-	-3-	-	-	-	-	-	2.80
56-	44.1753-	109.6025-	2-	11-	0-	W00929-	05/02/77-	10-	25-	11.5-	-	-	8.2-	125-	9-	1-	4-	-	-	2-	3-	1-	2-	2-	3-	4-	1-	-1-	-	-	-	-	2.20
56-	44.1911-	109.5886-	2-	12-	0-	W00930-	05/02/77-	10-	20-	12.0-	-	-	8.4-	45-	22-	1-	6-	3-	6-	3-	3-	3-	1-	2-	2-	2-	3-	1-	-1-	-	-	-	-	1.70
56-	44.1944-	109.5819-	2-	12-	0-	W00931-	05/02/77-	11-	21-	12.5-	-	-	8.2-	47-	9-	1-	6-	3-	6-	3-	3-	3-	1-	2-	2-	3-	3-	1-	-1-	-	-	-	-	1.30
56-	44.2083-	109.5597-	2-	12-	0-	W00932-	05/02/77-	11-	23-	16.5-	-	-	8.0-	90-	13-	1-	6-	3-	6-	3-	3-	3-	1-	2-	2-	3-	3-	1-	-1-	-	-	-	-	1.40
56-	44.1525-	109.6017-	2-	12-	0-	W00933-	05/02/77-	11-	23-	13.0-	-	-	8.4-	180-	9-	4-	-	5-	6-	2-	3-	1-	2-	4-	3-	3-	1-	-1-	-	-	-	-	2.00
56-	44.2208-	109.5492-	2-	15-	0-	W00934-	05/02/77-	-	27-	-	-	-	-	-	18-	1-	6-	4-	6-	-	-	-	3-	3-	3-	4-	1-	-3-	-	-	-	-	1.80
56-	44.2339-	109.5281-	2-	15-	0-	W00935-	05/02/77-	12-	27-	-	-	-	-	-	4-	1-	4-	4-	4-	-	-	-	3-	3-	3-	3-	2-	-3-	-	-	-	-	1.40
56-	44.2289-	109.5128-	2-	12-	0-	W00936-	05/02/77-	13-	27-	16.5-	-	-	8.2-	100-	18-	4-	-	2-	7-	3-	3-	1-	2-	3-	3-	3-	2-	-3-	-	-	-	-	1.60
56-	44.2447-	109.4897-	2-	12-	0-	W00937-	05/02/77-	13-	23-	14.0-	-	-	8.6-	80-	13-	4-	-	3-	7-	4-	4-	4-	2-	2-	3-	3-	2-	-3-	-	-	-	-	1.50
56-	44.2658-	109.4739-	2-	15-	0-	W00938-	05/02/77-	14-	25-	-	-	-	-	-	9-	4-	-	4-	6-	-	-	-	2-	3-	3-	3-	2-	-3-	-	-	-	-	1.60
56-	44.2603-	109.4506-	2-	15-	0-	W00939-	05/02/77-	15-	26-	-	-	-	-	-	4-	1-	4-	3-	6-	-	-	-	2-	3-	3-	3-	2-	-1-	-	-	-	-	1.40
56-	44.2614-	109.4483-	2-	12-	0-	W00940-	05/02/77-	15-	25-	17.5-	-	-	8.4-	85-	9-	1-	4-	3-	7-	4-	4-	4-	2-	2-	3-	3-	2-	-1-	-	-	-	-	1.60
56-	44.3272-	109.4719-	2-	12-	0-	W00941-	05/02/77-	17-	23-	10.5-	-	-	8.6-	55-	4-	1-	6-	4-	6-	4-	4-	4-	2-	2-	3-	3-	2-	-3-	-	-	-	-	1.40
56-	44.3250-	109.4814-	2-	15-	0-	W00942-	05/02/77-	17-	24-	-	-	-	-	-	18-	1-	6-	3-	7-	-	-	-	2-	1-	3-	4-	2-	-3-	-	-	-	-	3.10
56-	44.3278-	109.4811-	2-	12-	0-	W00943-	05/02/77-	17-	24-	14.5-	-	-	8.6-	130-	13-	1-	6-	3-	7-	3-	4-	3-	2-	1-	3-	4-	2-	-3-	-	-	-	-	2.10
56-	44.3031-	109.4944-	2-	12-	0-	W00944-	05/02/77-	18-	20-	15.5-	-	-	8.2-	135-	9-	1-	6-	3-	7-	3-	4-	4-	2-	2-	3-	3-	2-	-3-	-	-	-	-	1.90
56-	44.3019-	109.4961-	2-	12-	0-	W00945-	05/02/77-	18-	20-	17.5-	-	-	8.2-	330-	13-	-	-	-	-	-	-	-	-	-	-	-	-	-1-	-	-	-	-	2.80
56-	44.2928-	109.4633-	2-	15-	0-	W00946-	05/02/77-	19-	20-	-	-	-	-	-	13-	4-	-	4-	6-	-	-	-	3-	4-	3-	3-	2-	-3-	-	-	-	-	1.60
56-	44.2989-	109.4339-	2-	12-	0-	W00947-	05/03/77-	10-	16-	13.5-	-	-	8.4-	300-	9-	4-	-	3-	7-	2-	4-	3-	2-	3-	3-	3-	2-	-3-	-	-	-	-	2.20
56-	44.3178-	109.4086-	2-	15-	0-	W00948-	05/03/77-	10-	19-	-	-	-	-	-	4-	4-	-	3-	7-	-	-	-	-	3-	3-	3-	2-	-3-	-	-	-	-	2.20
56-	44.3306-	109.4144-	2-	15-	0-	W00949-	05/03/77-	11-	23-	-	-	-	-	-	13-	1-	4-	4-	6-	-	-	-	-	1-	2-	4-	2-	-1-	-	-	-	-	4.30
56-	44.3331-	109.4125-	2-	15-	0-	W00950-	05/03/77-	11-	23-	-	-	-	-	-	13-	1-	4-	4-	6-	-	-	-	-	1-	2-	4-	2-	-1-	-	-	-	-	2.70
56-	44.3592-	109.4117-	2-	12-	0-	W00951-	05/03/77-	12-	25-	14.5-	-	-	8.0-	330-	18-	4-	-	3-	7-	2-	3-	1-	2-	1-	2-	3-	2-	-3-	-	-	-	-	2.30
56-	44.3600-	109.4069-	2-	15-	0-	W00952-	06/03/77-	12-	24-	-	-	-	-	-	22-	4-	-	4-	6-	-	-	-	-	1-	2-	3-	2-	-3-	-	-	-	-	3.50
56-	44.3453-	109.3817-	2-	12-	0-	W00953-	05/03/77-	13-	22-	19.0-	-	-	8.6-	600-	13-	4-	-	3-	6-	2-	3-	1-	2-	2-	2-	3-	2-	-3-	-	-	-	-	3.30
56-	44.3447-	109.3886-	2-	12-	0-	W00954-	05/03/77-	13-	23-	20.5-	-	-	8.4-	380-	9-	4-	-	3-	7-	2-	3-	1-	2-	1-	3-	3-	2-	-3-	-	-	-	-	3.10
56-	44.2817-	109.3694-	2-	12-	0-	W00955-	05/03/77-	15-	23-	13.5-	-	-	8.4-	90-	18-	1-	4-	2-	7-	3-	4-	3-	2-	3-	3-	3-	2-	-3-	-	-	-	-	2.10
56-	44.2797-	109.3719-	2-	12-	0-	W00956-	05/03/77-	15-	23-	12.5-	-	-	8.2-	150-	13-	1-	4-	3-	7-	4-	3-	3-	2-	2-	3-	3-	2-	-3-	-	-	-	-	1.70
56-	44.3014-	109.3761-	2-	12-	0-	W00957-	05/03/77-	16-	23-	12.0-	-	-	8.6-	60-	9-	4-	-	3-	7-	4-	4-	3-	2-	2-	3-	3-	2-	-3-	-	-	-	-	2.00
56-	44.3022-	109.3739-	2-	15-	0-	W00958-	05/03/77-	16-	23-	-	C-	-	-	-	18-	1-	4-	3-	7-	-	-	-	-	2-	3-	3-	2-	-3-	-	-	-	-	1.90
56-	44.3000-	109.3144-	2-	12-	0-	W00959-	06/04/77-	9-	11-	9.5-	-	-	8.2-	110-	18-	4-	-	3-	6-	3-	4-	3-	2-	1-	3-	3-	2-	-1-	-	-	-	-	2.00
56-	44.3653-	109.3569-	2-	12-	0-	W00960-	06/04/77-	9-	18-	12.5-	-	-	8.4-	550-	9-	4-	-	4-	6-	2-	3-	1-	2-	4-	3-	3-	2-	-3-	-	-	-	-	2.90
56-	44.3700-	109.3428-	2-	12-	0-	W00961-	05/04/77-	10-	27-	18.5-	-	-	8.8-	650-	4-	4-	-	3-	7-	2-	3-	1-	2-	2-	3-	3-	2-	-3-	-	-	-	-	2.00

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.5000-109.5156-2-12-						0-W00907	-5	-5	-5	45	-20	32	11	-10	-15	1	7
56-44.4811-109.5081-2-12-						0-W00908	-5	-5	-5	54	-20	36	8	-10	-15	2	8
56-44.4581-109.7544-2-12-						0-W00910	-5	5	-5	72	-20	22	-5	-10	-15	2	8
56-44.4583-109.7903-2-12-						0-W00911	-5	-5	-5	58	-20	37	20	-10	17	2	9
56-44.4556-109.8356-2-12-						0-W00912	-5	-5	-5	65	-20	21	5	-10	-15	2	6
56-44.4508-109.8583-2-12-						0-W00913	-5	-5	-5	64	-20	38	-5	-10	-15	2	16
56-44.4333-109.8650-2-12-						0-W00914	-5	-5	-5	71	-20	33	7	-10	-15	2	10
56-44.4644-109.8581-2-12-						0-W00915	-5	-5	-5	58	-20	17	10	-10	-15	2	9
56-44.4736-109.8944-2-12-						0-W00916	-5	-5	-5	67	-20	-15	-5	-10	-15	2	7
56-44.4944-109.9333-2-12-						0-W00917	-5	-5	-5	56	-20	27	5	-10	-15	2	8
56-44.4875-109.9306-2-12-						0-W00918	-5	-5	-5	31	-20	31	8	-10	-15	2	16
56-44.5067-109.9622-2-12-						0-W00920	-5	-5	-5	44	-20	35	-5	-10	-15	2	9
56-44.4931-109.9917-2-12-						0-W00921	-5	-5	-5	43	-20	30	9	-10	-15	2	16
56-44.5131-109.9217-2-12-						0-W00922	-5	-5	-5	62	-20	24	-5	-10	-15	2	15
56-44.5142-109.9183-2-12-						0-W00923	-5	-5	-5	66	-20	15	6	-10	-15	2	8
56-44.5042-109.9544-2-15-						0-W00924	-5	-5	-5	56	-20	15	7	-10	-15	1	16
56-44.3878-109.3175-2-15-						0-W00927	-5	-5	-5	43	-20	50	17	-10	-15	2	24
56-44.3842-109.2625-2-12-						0-W00928	-5	-5	-5	33	-20	24	8	-10	-15	2	28
56-44.1753-109.6025-2-11-						0-W00929	-5	-5	-5	54	-20	38	12	-10	-15	1	17
56-44.1911-109.5886-2-12-						0-W00930	-5	-5	-5	48	-20	22	14	-10	-15	1	23
56-44.1944-109.5819-2-12-						0-W00931	-5	-5	-5	53	-20	31	-5	-10	-15	2	10
56-44.2083-109.5597-2-12-						0-W00932	-5	-5	-5	35	-20	44	15	-10	-15	2	17
56-44.1525-109.6017-2-12-						0-W00933	-5	-5	-5	36	-20	47	16	-10	-15	1	15
56-44.2208-109.5492-2-15-						0-W00934	-5	5	-5	35	-20	41	15	-10	-15	2	28
56-44.2339-109.5281-2-15-						0-W00935	-5	-5	-5	53	-20	47	9	-10	-15	2	20
56-44.2289-109.5128-2-12-						0-W00936	-5	-5	-5	58	-20	94	8	-10	-15	1	19
56-44.2447-109.4897-2-12-						0-W00937	-5	-5	-5	46	-20	65	-5	-10	-15	2	20
56-44.2658-109.4739-2-15-						0-W00938	-5	5	-5	31	-20	30	11	-10	-15	-1	23
56-44.2603-109.4506-2-15-						0-W00939	-5	-5	-5	27	-20	41	13	-10	-15	2	20
56-44.2614-109.4483-2-12-						0-W00940	-5	-5	-5	40	-20	35	11	-10	-15	2	21
56-44.3272-109.4719-2-12-						0-W00941	-5	-5	-5	66	-20	90	-5	-10	-15	3	14
56-44.3250-109.4814-2-15-						0-W00942	-5	-5	-5	43	-20	48	11	-10	-15	2	23
56-44.3278-109.4811-2-12-						0-W00943	-5	-5	-5	51	-20	54	9	-10	-15	3	21
56-44.3031-109.4944-2-12-						0-W00944	-5	-5	-5	75	-20	37	-5	-10	-15	2	16
56-44.3019-109.4961-2-12-						0-W00945	-5	-5	-5	34	-20	53	22	-10	-15	2	37
56-44.2928-109.4633-2-15-						0-W00946	-5	-5	-5	41	-20	38	14	-10	-15	2	24
56-44.2989-109.4339-2-12-						0-W00947	-5	-5	-5	27	-20	22	8	-10	-15	2	22
56-44.3178-109.4086-2-15-						0-W00948	-5	-5	-5	24	-20	-15	11	-10	-15	-1	30
56-44.3306-109.4144-2-15-						0-W00949	-5	-5	-5	22	-20	38	15	-10	-15	2	23
56-44.3331-109.4125-2-15-						0-W00950	-5	-5	-5	22	-20	16	13	-10	-15	2	23
56-44.3592-109.4117-2-12-						0-W00951	-5	-5	-5	37	-20	38	12	-10	-15	2	29
56-44.3600-109.4069-2-15-						0-W00952	-5	-5	-5	37	-20	44	9	-10	-15	3	32
56-44.3453-109.3817-2-12-						0-W00953	-5	-5	-5	36	-20	35	12	-10	-15	2	34
56-44.3447-109.3886-2-12-						0-W00954	-5	-5	-5	38	-20	40	17	-10	-15	2	25
56-44.2817-109.3694-2-12-						0-W00955	-5	-5	-5	30	-20	45	15	-10	-15	2	18
56-44.2797-109.3719-2-12-						0-W00956	-5	-5	-5	35	-20	61	8	-10	-15	2	25
56-44.3014-109.3761-2-12-						0-W00957	-5	-5	-5	32	-20	29	15	-10	-15	2	21
56-44.3022-109.3739-2-15-						0-W00958	-5	-5	-5	29	-20	74	9	-10	-15	2	21
56-44.3000-109.3144-2-12-						0-W00959	-5	-5	-5	30	-20	45	11	-10	-15	2	17
56-44.3653-109.3569-2-12-						0-W00960	-5	-5	-5	24	-20	32	14	-10	-15	2	28
56-44.3700-109.3428-2-12-						0-W00961	-5	-5	-5	41	-20	34	16	-10	-15	2	19

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.5000-	109.5156-2-12-				0-W00907	88640	-0.22	978	54700	72	-130	28.3	174	-2.1	2	2.0	66520	2.6	10050	-23	-0.1
56-	44.4811-	109.5081-2-12-				0-W00908	80340	-0.22	1007	59810	54	-127	28.7	182	-2.1	3	1.8	69990	2.3	9484	41	0.3
56-	44.4581-	109.7544-2-12-				0-W00910	74770	-0.10	1077	53890	49	-136	31.7	192	-2.5	3	1.7	74320	2.1	12920	28	0.2
56-	44.4583-	109.7903-2-12-				0-W00911	80720	-0.10	1069	56160	56	-125	27.2	172	-2.4	2	1.7	63580	2.0	11440	21	0.2
56-	44.4556-	109.8356-2-12-				0-W00912	76920	-0.12	1035	57190	65	-116	40.1	186	-3.0	2	1.4	91070	3.3	14040	31	0.3
56-	44.4508-	109.8583-2-12-				0-W00913	64710	-0.24	867	53090	51	-120	40.5	388	-1.9	2	1.8	102300	1.9	10250	-22	-0.2
56-	44.4333-	109.8650-2-12-				0-W00914	72200	-0.09	937	51730	53	-128	37.1	337	-2.4	3	1.1	88230	2.7	15710	31	0.2
56-	44.4644-	109.8581-2-12-				0-W00915	76130	-0.10	1072	54560	62	-122	30.7	197	-2.6	2	1.6	76790	3.1	14750	29	0.1
56-	44.4736-	109.8944-2-12-				0-W00916	79500	-0.12	1155	51900	65	-121	43.2	216	-3.1	3	2.0	97650	3.8	13790	31	-0.1
56-	44.4944-	109.9333-2-12-				0-W00917	79440	-0.28	1107	51670	54	-131	29.8	141	-2.2	2	1.0	73490	-1.0	13240	-30	-0.2
56-	44.4875-	109.9306-2-12-				0-W00918	78170	-0.09	1354	46130	62	-149	28.4	153	-2.2	-1	1.1	61640	2.9	10640	42	0.2
56-	44.5067-	109.9622-2-12-				0-W00920	85120	-0.10	989	57610	55	-131	24.6	134	-2.5	3	1.7	61850	2.1	13900	27	-0.1
56-	44.4931-	109.9917-2-12-				0-W00921	78560	-0.10	1317	38480	87	-131	35.8	277	-2.6	3	1.6	76550	4.8	9841	41	0.3
56-	44.5131-	109.9217-2-12-				0-W00922	77700	-0.33	1072	49530	60	-127	27.3	142	-2.5	2	1.7	66550	3.4	14290	-30	-0.2
56-	44.5142-	109.9183-2-12-				0-W00923	80370	-0.09	938	54270	52	-129	31.5	160	-2.2	2	1.6	78130	-0.9	9048	29	0.2
56-	44.5042-	109.9544-2-15-				0-W00924	79070	-0.09	1024	38460	58	-113	14.7	64	2.8	3	1.6	40220	4.0	14980	32	0.2
56-	44.3878-	109.3175-2-12-				0-W00927	74470	-0.09	1030	36300	75	-103	22.5	186	-1.9	3	1.8	47500	6.3	15190	31	0.4
56-	44.3842-	109.2625-2-12-				0-W00928	60240	-0.08	975	22750	61	-96	13.0	96	2.9	-1	1.5	33480	8.2	11190	35	0.3
56-	44.1753-	109.6025-2-11-				0-W00929	84300	-0.11	1379	44940	74	-141	19.6	185	-2.0	3	1.9	39550	3.6	13390	34	-0.1
56-	44.1911-	109.5886-2-12-				0-W00930																
56-	44.1944-	109.5819-2-12-				0-W00931	70030	-0.13	1051	55820	71	-112	43.5	390	-2.6	2	1.7	111300	3.6	14500	39	0.3
56-	44.2083-	109.5597-2-12-				0-W00932	79500	-0.10	1226	50730	75	-114	27.5	255	-2.0	2	1.3	70020	3.5	10690	41	0.2
56-	44.1525-	109.6017-2-12-				0-W00933	87100	-0.08	1470	45840	66	-128	17.5	180	-1.7	2	1.8	44140	3.8	15000	35	0.2
56-	44.2208-	109.5492-2-15-				0-W00934	79910	-0.09	1147	36350	77	-121	19.1	166	-1.8	3	1.8	47250	4.1	16630	38	0.2
56-	44.2339-	109.5281-2-15-				0-W00935	77370	-0.12	1222	54170	76	-115	37.4	283	-2.4	3	1.5	84550	4.0	16540	49	0.2
56-	44.2289-	109.5128-2-12-				0-W00936	76390	-0.10	1233	50180	70	-110	29.6	254	-2.0	2	1.2	64850	3.6	12110	34	0.2
56-	44.2447-	109.4897-2-12-				0-W00937	79670	-0.11	1163	51730	78	-121	33.4	279	-2.8	3	1.4	76510	4.7	13790	43	-0.1
56-	44.2658-	109.4739-2-15-				0-W00938	81560	-0.07	1223	40830	68	-111	20.7	140	-1.9	3	1.8	47350	4.4	15610	33	0.2
56-	44.2603-	109.4506-2-15-				0-W00939	82260	-0.07	1191	47410	70	-121	23.2	178	-1.9	3	1.3	51820	3.5	12820	28	0.2
56-	44.2614-	109.4483-2-12-				0-W00940	79030	-0.07	1183	48210	58	-121	25.5	251	-1.9	3	1.7	61100	4.3	9853	31	0.2
56-	44.3272-	109.4719-2-12-				0-W00941	67090	-0.08	1115	49670	76	-99	30.5	401	-2.2	2	1.6	70180	3.9	13760	32	0.2
56-	44.3250-	109.4814-2-15-				0-W00942	68100	-0.08	950	23660	106	-95	22.2	235	3.6	5	2.4	57910	12.7	18520	52	0.5
56-	44.3278-	109.4811-2-12-				0-W00943	74220	-0.07	987	37880	75	-116	25.7	351	-2.0	4	2.0	64490	8.5	14740	41	0.4
56-	44.3031-	109.4944-2-12-				0-W00944	70040	-0.08	872	63200	52	-121	34.1	292	-2.3	-1	1.4	89200	3.2	12130	27	0.2
56-	44.3019-	109.4961-2-12-				0-W00945	82590	-0.08	927	31490	104	-118	17.4	130	-2.1	4	1.6	44250	9.8	15850	38	0.3
56-	44.2928-	109.4633-2-15-				0-W00946	70130	-0.08	994	39940	77	-95	26.3	187	-2.1	3	1.2	60580	7.1	13120	38	0.3
56-	44.2989-	109.4339-2-12-				0-W00947	56790	-0.06	864	27920	63	-86	13.2	107	2.7	5	1.6	31090	8.7	13030	30	0.4
56-	44.3178-	109.4086-2-15-				0-W00948	44090	-0.04	591	12360	45	-78	10.3	63	2.0	4	1.1	23910	5.8	10550	20	0.3
56-	44.3306-	109.4144-2-15-				0-W00949	63900	-0.07	798	24340	119	-107	14.3	168	-1.7	6	1.8	36450	16.8	14660	50	0.6
56-	44.3331-	109.4125-2-15-				0-W00950	55290	-0.06	930	15690	81	-88	13.5	133	2.4	4	1.2	32230	13.2	17700	42	0.4
56-	44.3592-	109.4117-2-12-				0-W00951	77400	-0.07	912	26420	82	-111	17.9	178	-1.8	4	1.0	45780	6.4	14710	37	0.3
56-	44.3600-	109.4069-2-15-				0-W00952	66900	-0.06	763	15930	90	-104	13.8	112	2.7	6	1.6	35150	9.7	16680	41	0.4
56-	44.3453-	109.3817-2-12-				0-W00953	74950	-0.07	890	28090	113	-109	15.8	145	2.7	5	1.8	37700	15.1	17830	43	0.5
56-	44.3447-	109.3886-2-12-				0-W00954	71430	-0.08	787	23840	111	-95	21.6	207	3.5	5	2.0	50280	13.9	14660	55	0.6
56-	44.2817-	109.3694-2-12-				0-W00955	85640	-0.07	1346	41510	77	-127	20.8	159	-1.9	4	1.3	51580	4.8	15740	37	0.2
56-	44.2797-	109.3719-2-12-				0-W00956	82490	-0.35	1205	41000	87	-137	33.0	295	-2.6	3	2.0	68740	4.3	13010	-33	-0.2
56-	44.3014-	109.3761-2-12-				0-W00957																
56-	44.3022-	109.3739-2-15-				0-W00958	74190	-0.08	1151	44260	63	-140	18.9	213	-2.1	3	1.0	45010	3.5	11870	31	0.2
56-	44.3000-	109.3144-2-12-				0-W00959	78360	-0.09	1474	45590	71	-127	19.3	191	-2.2	3	1.8	44080	6.5	13230	34	0.3
56-	44.3653-	109.3569-2-12-				0-W00960	57900	-0.09	851	24350	81	-98	19.6	140	2.3	5	2.1	41930	9.4	13710	51	0.4
56-	44.3700-	109.3428-2-12-				0-W00961	71630	-0.19	1028	37210	77	-118	17.6	214	-1.5	3	1.7	42380	7.3	11920	-20	0.4

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.5000-109.5156-2-12-				0-		W00907	47890	878	23920	-38	-5	26.4	5.1	1205	-1	-1	3.2	4926	187	-2.8	144	0.281
56-44.4811-109.5081-2-12-				0-		W00908	50160	1018	20520	-38	-5	29.3	4.8	1265	-1	-1	3.3	5264	264	-2.8	-10	0.263
56-44.4581-109.7544-2-12-				0-		W00910	53540	1079	19500	-40	-2	29.1	4.1	1262	-2	-1	2.8	6329	318	-1.8	-50	0.429
56-44.4583-109.7903-2-12-				0-		W00911	52070	1063	19390	-37	-2	24.0	4.6	1422	-2	-1	3.5	5139	244	-1.9	-48	0.286
56-44.4556-109.8356-2-12-				0-		W00912	54920	1055	19170	-47	-3	34.7	5.8	1246	-2	-1	4.8	5983	294	-2.2	-55	0.229
56-44.4508-109.8583-2-12-				0-		W00913	65410	1174	15900	-33	-6	33.1	7.1	-349	-1	-1	3.7	8402	471	-3.0	-24	0.324
56-44.4333-109.8650-2-12-				0-		W00914	54390	1097	17540	-41	-2	26.5	5.3	957	-2	-1	4.5	7335	402	-1.7		0.289
56-44.4644-109.8581-2-12-				0-		W00915	49820	1030	18190	-39	-2	24.4	4.5	-413	-2	-1	4.4	7023	369	-1.9	-46	0.250
56-44.4736-109.8944-2-12-				0-		W00916	53330	1079	18940	-47	-3	32.1	5.4	979	-2	-1	4.7	7066	298	-2.3	-57	0.255
56-44.4944-109.9333-2-12-				0-		W00917	54060	1098	19320	-43	-7	24.7	4.7	1028	-1	-1	3.7	5912	278	-3.4	-26	0.297
56-44.4875-109.9306-2-12-				0-		W00918	49830	975	22470	-39	-2	18.5	4.4	1194	-2	-1	5.2	5223	223	-1.7	129	0.288
56-44.5067-109.9422-2-12-				0-		W00920	45640	993	23700	-36	-2	23.7	4.1	1269	-2	-1	2.4	5014	249	-1.9	-15	0.375
56-44.4931-109.9917-2-12-				0-		W00921	46950	1002	21850	-44	-2	19.7	5.6	1091	-2	-1	7.7	4619	179	-2.0	195	0.221
56-44.5131-109.9217-2-12-				0-		W00922	48760	1016	17110	-42	-8	24.4	-3.0	984	-2	-1	4.2	5656	271	-4.2	-44	0.333
56-44.5142-109.9183-2-12-				0-		W00923	47900	1100	19150	-36	-2	27.4	4.7	1201	-1	-1	4.0	6289	329	-1.5	-8	0.275
56-44.5042-109.9544-2-15-				0-		W00924	28300	639	18480	-30	-2	15.1	4.8	930	-1	-1	3.6	4025	127	2.7	-38	0.694
56-44.3873-109.3175-2-15-				0-		W00927	39140	764	17250	45	-2	17.0	4.3	642	-1	-1	7.6	4352	120	2.7	118	0.263
56-44.3842-109.2625-2-12-				0-		W00928	23420	644	10900	-27	-2	11.0	5.1	485	-1	-1	9.6	4326	116	2.4	93	0.292
56-44.1753-109.6025-2-11-				0-		W00929	37740	557	24600	-32	-2	14.3	4.2	1068	-1	-1	5.9	4991	138	-1.9	132	0.373
56-44.1911-109.5886-2-12-				0-		W00930																
56-44.1944-109.5819-2-12-				0-		W00931	51580	1089	18400	-44	-3	37.1	6.4	1022	-2	-1	5.9	8326	382	-2.3	-50	0.220
56-44.2083-109.5597-2-12-				0-		W00932	48900	931	22740	-32	-2	22.9	5.3	1106	-1	-1	5.4	5904	255	-1.7	117	0.259
56-44.1525-109.6017-2-12-				0-		W00933	39690	619	25210	-28	-2	15.5	4.6	1450	-1	-1	6.0	4587	149	-1.5	90	0.333
56-44.2208-109.5492-2-15-				0-		W00934	33950	693	20960	67	-2	14.7	5.2	832	-1	-1	7.5	3707	133	2.4	91	0.240
56-44.2339-109.5281-2-15-				0-		W00935	52410	949	20360	-41	-3	29.4	5.6	1612	-1	-1	6.7	5867	250	-2.2	105	0.209
56-44.2289-109.5128-2-12-				0-		W00936	52550	892	20990	-33	-2	22.0	4.9	1177	-1	-1	5.5	5121	214	-1.7	133	0.291
56-44.2447-109.4897-2-12-				0-		W00937	50550	956	20720	-43	-3	27.7	5.9	917	-1	-1	6.9	5600	259	-2.1	141	0.217
56-44.2658-109.4739-2-15-				0-		W00938	33060	716	22720	-29	-2	14.2	4.7	1190	-1	-1	6.1	4111	135	-1.3	-21	0.262
56-44.2503-109.4506-2-15-				0-		W00939	42060	782	21880	46	-2	20.6	4.3	943	-1	-1	5.7	5135	176	-1.4	126	0.246
56-44.2614-109.4483-2-12-				0-		W00940	44470	645	20330	-32	-2	21.2	5.1	781	-1	-1	5.7	5310	247	1.8		0.281
56-44.3272-109.4719-2-12-				0-		W00941	48220	503	17450	-31	-2	25.2	5.5	-312	-1	-1	4.9	5751	266	1.7	-37	0.292
56-44.3250-109.4814-2-15-				0-		W00942	25010	485	15920	81	-2	18.7	7.3	-296	-1	-1	17.9	5566	174	5.1	152	0.173
56-44.3278-109.4811-2-12-				0-		W00943	46830	660	18080	-31	-2	21.6	-0.5	1104	-1	-1	10.3	7145	268	2.5	76	0.204
56-44.3031-109.4944-2-12-				0-		W00944	51970	275	17350	-35	-2	34.0	4.9	-327	-1	-1	3.4	8336	435	-1.5	40	0.294
56-44.3019-109.4961-2-12-				0-		W00945	37970	711	16590	49	-2	12.8	6.6	486	-1	-1	12.1	4991	127	3.6	103	0.231
56-44.2928-109.4633-2-15-				0-		W00946	37430	591	17870	43	-2	19.9	5.6	1069	-1	-1	9.0	3952	148	3.6	208	0.179
56-44.2989-109.4339-2-12-				0-		W00947	25110	568	9631	52	-1	10.9	4.8	562	-1	-1	8.0	3550	114	3.1	86	0.275
56-44.3178-109.4086-2-15-				0-		W00948	8656	537	8773	39	-1	5.8	4.3	-224	-1	-1	6.9	2447	64	2.1	60	0.319
56-44.3306-109.4144-2-15-				0-		W00949	24310	708	15200	45	-2	13.3	7.6	557	-1	-1	17.8	5813	116	4.2	62	0.242
56-44.3331-109.4125-2-15-				0-		W00950	19910	455	18090	59	-1	10.9	6.0	-246	-1	1	12.5	3805	75	3.7	82	0.216
56-44.3592-109.4117-2-12-				0-		W00951	28340	674	14730	51	-2	15.9	5.2	670	-1	-1	10.6	4578	107	2.8	81	0.217
56-44.3600-109.4069-2-15-				0-		W00952	19550	500	15930	81	-1	11.5	6.6	-261	-1	-1	16.1	3721	82	4.3	-80	0.217
56-44.3453-109.3817-2-12-				0-		W00953	29470	723	16690	-29	-2	12.7	7.3	648	-1	-1	16.1	4918	113	3.4	-31	0.205
56-44.3447-109.3886-2-12-				0-		W00954	26320	629	16950	70	-2	17.3	7.8	-295	-1	-1	17.7	4912	103	4.5	68	0.175
56-44.2817-109.3694-2-12-				0-		W00955	32140	723	22770	53	-2	17.3	4.5	1418	-1	-1	8.6	4929	167	2.1	67	0.244
56-44.2797-109.3719-2-12-				0-		W00956	52770	904	21540	-48	-8	22.2	7.5	1338	-1	-1	9.0	5492	176	-4.4	-64	0.189
56-44.3014-109.3761-2-12-				0-		W00957																
56-44.3022-109.3739-2-15-				0-		W00958	46230	629	20820	-34	-2	15.0	4.1	1079	-1	-1	5.4	4228	160	-1.6	128	0.352
56-44.3000-109.3144-2-12-				0-		W00959	42600	751	21850	-33	-2	16.6	5.3	1392	-1	-1	8.0	4724	168	-1.6	72	0.250
56-44.3653-109.3569-2-12-				0-		W00960	25960	558	15100	59	-2	13.7	6.6	543	-1	-1	13.4	3796	101	3.2	98	0.216
56-44.3700-109.3428-2-12-				0-		W00961	37540	644	20170	-25	-5	18.8	7.6	790	-1	-1	9.6	4311	128	-2.3	98	0.208

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.3789-109.3283-2-15-						0-W00962-06/04/77-10-	27-		-	-	-		-	-		4-1-4-3-6-	-	-	-	-3-3-3-2-	-3-	-	-	-	-	1.60
56-44.3564-109.3200-2-12-						0-W00963-06/04/77-10-	27-15.0-		-	-	-		8.6-	400-		9-4-	-3-7-3-3-3-2-2-3-3-2-	-3-	-	-	-	-	2.80
56-44.3619-109.3019-2-12-						0-W00964-06/04/77-11-	25-15.5-		-	-	-		8.2-	280-		0-4-	-3-7-3-3-2-2-2-3-3-2-	-3-	-	-	-	-	4.60
56-44.4550-109.2556-2-15-						0-W00965-06/04/77-11-	25-		-	-	-		-	-		13-4-	-4-6-	-	-	-	-3-3-4-2-	-3-	-	-	-	-	3.00
56-44.4797-109.3100-2-15-						0-W00966-06/04/77-12-	28-		-	-	-		-	-		4-1-4-3-6-	-	-	-	-	-3-3-3-2-	-3-	-	-	-	-	1.90
56-44.4756-109.3711-2-12-						0-W00967-06/04/77-12-	27-24.5-		-	-	-		8.4-	800-		4-4-	-3-7-2-2-1-2-3-3-3-2-	-3-	-	-	-	-	2.00
56-44.4714-109.3881-2-15-						0-W00968-06/04/77-12-	31-		-	-	-		-	-		4-4-	-3-6-	-	-	-	-2-3-3-2-	-3-	-	-	-	-	1.80
56-44.4347-109.3931-2-12-						0-W00969-06/04/77-13-	29-17.5-		-	-	-		9.0-	360-		9-1-6-4-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-	2.80
56-44.4653-109.4031-2-12-						0-W00970-06/04/77-13-	28-23.5-		-	-	-		8.6-	240-		0-4-	-3-6-3-3-2-2-4-3-2-2-2-	-3-	-	-	-	-	2.70
56-44.4578-109.4036-2-15-						0-W00971-06/04/77-14-	28-		-	-	-		-	-		4-1-4-4-6-	-	-	-	-3-3-3-2-	-3-	-	-	-	-	1.60
56-44.4225-109.4247-2-12-						0-W00972-06/04/77-15-	21-10.5-		-	-	-		9.0-	110-		4-2-4-2-7-3-3-1-2-1-3-4-2-	-3-	-	-	-	-	1.30
56-44.4369-109.4278-2-15-						0-W00973-06/04/77-15-	28-		-	-	-		-	-		9-4-	-4-6-	-	-	-	-2-3-3-2-	-3-	-	-	-	-	1.60
56-44.4500-109.4392-2-15-						0-W00974-06/04/77-15-	25-		-	-	-		-	-		13-4-	-3-6-	-	-	-	-3-3-4-2-	-3-	-	-	-	-	3.10
56-44.7236-109.2156-2-15-						0-W00975-06/01/77- 9-	24-		-	-	-		-	-		3-1-1-5-1-	-1-	-2-3-2-4-1-	-1-	-	-	-	-	3.00
56-44.7083-109.2128-2-15-						0-W00976-06/01/77-10-	24-		-	-	-		-	-		7-1-1-5-1-	-1-	-2-3-2-4-1-	-1-	-	-	-	-	2.40
56-44.6872-109.2106-2-12-						0-W00977-06/01/77-10-	26-15.0-		-	-	-		6.8-	1800-		6-1-1-6-7-2-2-3-2-2-3-4-1-	-3-	-	-	-	-	3.40
56-44.6953-109.1872-2-15-						0-W00978-06/01/77-10-	24-		-C-	-			-	-		3-1-1-4-1-	-1-	-2-3-2-4-1-	-2-	-	-	-	-	2.30
56-44.6697-109.2019-2-15-						0-W00979-06/01/77-11-	24-		-	-	-		-	-		8-1-1-5-6-	-1-	-2-3-2-4-1-	-1-	-	-	-	-	3.30
56-44.6575-109.1914-2-12-						0-W00980-06/01/77-12-	25-		-	-	-		6.5-	2000-		3-1-1-5-6-2-2-3-2-4-4-3-1-	-1-	-	-	-	-	3.60
56-44.6564-109.1800-2-15-						0-W00981-06/01/77-12-	20-		-	-	-		-	-		5-1-1-4-1-	-1-	-2-3-2-4-1-	-1-	-	-	-	-	2.60
56-44.6417-109.1575-2-15-						0-W00982-06/01/77-12-	32-		-	-	-		-	-		4-1-1-5-1-	-1-	-2-3-3-2-1-	-1-	-	-	-	-	2.50
56-44.6250-109.1444-2-15-						0-W00983-06/01/77-13-	32-		-	-	-		-	-		8-1-1-4-1-	-1-	-2-3-2-4-1-	-1-	-	-	-	-	4.00
56-44.6278-109.1611-2-12-						0-W00984-06/01/77-13-	32-16.0-		-	-	-		6.3-	700-		9-1-1-6-6-2-2-1-2-2-4-3-1-	-3-	-	-	-	-	2.80
56-44.6161-109.1367-2-11-						0-W00985-06/01/77-14-	25-24.0-		-C-	-			6.5-	1300-		3-1-1-6-8-2-3-1-1-6-4-3-1-	-1-	-	-	-	-	3.80
56-44.6017-109.1239-2-15-						0-W00986-06/01/77-14-	33-		-	-	-		-	-		4-1-1-4-1-	-1-	-2-3-2-4-1-	-1-	-	-	-	-	2.60
56-44.5939-109.0972-2-15-						0-W00987-06/01/77-14-	30-		-	-	-		-	-		5-1-1-4-1-	-1-	-2-3-2-3-1-	-1-	-	-	-	-	3.20
56-44.6144-109.0869-2-15-						0-W00988-06/01/77-15-	32-		-	-	-		-	-		3-1-1-4-1-	-1-	-2-3-2-2-1-	-1-	-	-	-	-	2.50
56-44.5936-109.0444-2-15-						0-W00989-06/01/77-15-	33-		-	-	-		-	-		4-1-1-4-1-	-1-	-2-3-2-2-1-	-1-	-	-	-	-	3.00
56-44.5975-109.0706-2-15-						0-W00990-06/01/77-15-	33-		-	-	-		-	-		3-1-1-4-1-	-1-	-2-3-2-2-1-	-1-	-	-	-	-	2.50
56-44.6044-109.0214-2-15-						0-W00991-06/01/77-16-	33-		-	-	-		-	-		5-1-1-4-1-	-1-	-2-3-2-3-1-	-1-	-	-	-	-	2.80
56-44.5878-109.0697-2-15-						0-W00992-06/01/77-17-	33-		-C-	-			-	-		1-1-1-4-1-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	1.80
56-44.5858-109.0717-2-12-						0-W00993-06/01/77-17-	28-25.0-		-C-	-			6.3-	5000-		8-1-1-5-6-1-2-2-1-6-5-2-2-	-9-	-	-	-	-	3.20
56-44.6408-109.0331-2-15-						0-W00994-06/02/77-10-	22-		-	-	-		-	-		3-1-3-4-1-	-1-	-2-3-2-4-1-	-1-	-	-	-	-	3.20
56-44.6433-109.0333-2-15-						0-W00995-06/02/77-10-	22-		-	-	-		-	-		6-1-3-4-1-	-1-	-2-3-2-4-1-	-1-	-	-	-	-	3.10
56-44.6464-109.0264-2-12-						0-W00997-06/02/77-11-	22-20.0-		-	-	-		6.8-	1300-		2-1-1-5-6-2-2-2-2-3-2-2-1-	-3-	-	-	-	-	2.70
56-44.6997-109.0364-2-15-						0-W00998-06/02/77-12-	17-		-C-	-			-	-		5-1-1-	-	-	-1-	-2-3-2-1-2-	-1-	-	-	-	-	2.90
56-44.7381-109.0483-2-12-						0-W00999-06/02/77-13-	22-17.5-		-C-	-			5.9-	210-		6-1-1-3-1-3-3-1-2-4-4-2-2-	-3-	-	-	-	-	3.60
56-44.7406-109.0508-2-15-						0-W01000-06/02/77-13-	22-		-	-	-		-	-		5-1-1-	-	-	-1-	-2-3-2-3-2-	-1-	-	-	-	-	2.80
56-44.7186-109.1036-2-15-						0-W01001-06/02/77-14-	26-		-	-	-		-	-		6-1-1-4-1-	-1-	-2-3-2-3-2-	-3-	-	-	-	-	2.20
56-44.7183-109.1244-2-12-						0-W01002-06/02/77-14-	24-20.0-		-	-	-		6.3-	820-		8-1-3-	-	-2-2-1-2-3-2-4-2-	-3-	-	-	-	-	2.20
56-44.7022-109.1358-2-12-						0-W01003-06/02/77-15-	20-20.0-		-	-	-		6.3-	750-		7-1-1-5-6-3-2-1-2-3-2-4-2-	-3-	-	-	-	-	2.30
56-44.7011-109.1317-2-12-						0-W01004-06/02/77-15-	20-25.0-		-C-	-			6.5-	795-		9-1-1-5-7-2-2-2-2-3-2-4-2-	-3-	-	-	-	-	2.80
56-44.7183-109.0461-2-12-						0-W01005-06/02/77-16-	20-24.0-		-	-	-		6.5-	1340-		6-1-1-5-6-2-2-1-2-3-2-1-4-	-3-	-	-	-	-	2.80
56-44.7525-109.0403-2-15-						0-W01006-06/02/77-16-	20-		-	-	-		-	-		6-1-1-4-1-	-1-	-2-3-2-2-3-	-3-	-	-	-	-	2.90
56-44.6167-109.2039-2-11-						0-W01007-06/03/77- 9-	16- 9.0-		-C-	-			5.7-	390-		6-4-	-5-8-2-3-1-1-4-4-3-2-	-1-	-	-	-	-	2.60
56-44.6219-109.2275-2-11-						0-W01008-06/03/77- 9-	17-13.5-		-	-	-		5.9-	550-		11-1-3-5-8-2-2-1-1-4-4-4-2-	-1-	-	-	-	-	3.80
56-44.6172-109.2811-2-11-						0-W01009-06/03/77-10-	19-12.5-		-	-	-		6.3-	680-		6-1-3-5-3-2-3-1-2-4-3-5-2-	-1-	-	-	-	-	2.50
56-44.6342-109.3361-2-11-						0-W01010-06/03/77-11-	13- 3.5-		-	-	-		5.9-	315-		5-4-	-5-6-2-3-1-2-4-3-4-2-	-1-	-	-	-	-	1.80
56-44.6247-109.3572-2-11-						0-W01011-06/03/77-12-	17- 2.5-		-	-	-		5.9-	300-		7-1-1-5-6-2-2-3-2-4-3-4-2-	-1-	-	-	-	-	2.20
56-44.6131-109.2422-2-11-						0-W01012-06/03/77-13-	25-24.0-		-	-	-		6.8-	3000-		3-1-7-5-6-2-2-1-2-4-4-5-2-	-1-	-	-	-	-	4.50
56-44.5992-109.1308-2-15-						0-W01013-06/03/77-14-	25-		-	-	-		-	-		2-1-1-	-	-	-1-	-2-3-2-4-2-	-3-	-	-	-	-	3.70

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-	44.3789-	109.3283-	2-	15-	0-	W00962	-5	-5	-5	41	-20	15	10	-10	-15	2	20
56-	44.3564-	109.3200-	2-	12-	0-	W00963	-5	-5	-5	24	-20	-15	9	-10	-15	2	29
56-	44.3619-	109.3019-	2-	12-	0-	W00964	-5	-5	-5	20	-20	38	11	-10	-15	2	20
56-	44.4650-	109.2556-	2-	15-	0-	W00965	-5	-5	-5	13	-20	-15	7	-10	-15	2	30
56-	44.4797-	109.3100-	2-	15-	0-	W00966	-5	-5	-5	35	-20	28	13	-10	-15	2	28
56-	44.4755-	109.3711-	2-	12-	0-	W00967	-5	-5	-5	41	-20	50	13	-10	16	2	22
56-	44.4714-	109.3881-	2-	15-	0-	W00968	-5	-5	-5	36	-20	51	10	-10	28	2	23
56-	44.4347-	109.3831-	2-	12-	0-	W00969	-5	-5	-5	43	-20	53	21	-10	-15	2	31
56-	44.4653-	109.4031-	2-	12-	0-	W00970	-5	-5	-5	27	-20	30	15	-10	-15	2	23
56-	44.4678-	109.4036-	2-	15-	0-	W00971	-5	-5	-5	26	-20	32	18	-10	-15	2	17
56-	44.4225-	109.4247-	2-	12-	0-	W00972	-5	-5	-5	40	-20	44	-5	-10	-15	2	16
56-	44.4369-	109.4278-	2-	15-	0-	W00973	-5	-5	-5	28	-20	50	15	-10	-15	2	18
56-	44.4600-	109.4392-	2-	15-	0-	W00974	-5	-5	-5	34	-20	57	8	-10	18	2	26
56-	44.7236-	109.2156-	2-	15-	0-	W00975	-5	-5	-5	14	-20	-15	12	-10	-15	2	16
56-	44.7083-	109.2128-	2-	15-	0-	W00976	-5	-5	-5	-10	-20	-15	15	-10	-15	2	21
56-	44.6872-	109.2106-	2-	12-	0-	W00977	-5	-5	-5	12	-20	-15	13	-10	-15	2	25
56-	44.6853-	109.1872-	2-	15-	0-	W00978	-5	-5	-5	-10	-20	-15	7	-10	-15	2	14
56-	44.6697-	109.2019-	2-	15-	0-	W00979	-5	-5	-5	17	-20	-15	14	-10	-15	3	34
56-	44.6575-	109.1914-	2-	12-	0-	W00980	-5	-5	-5	16	-20	-15	10	-10	-15	2	38
56-	44.6564-	109.1800-	2-	15-	0-	W00981	-5	-5	-5	16	-20	-15	8	-10	-15	1	16
56-	44.6417-	109.1575-	2-	15-	0-	W00982	-5	-5	-5	24	-20	20	9	-10	-15	3	46
56-	44.6250-	109.1444-	2-	15-	0-	W00983	-5	-5	-5	10	-20	-15	5	-10	-15	2	17
56-	44.6278-	109.1611-	2-	12-	0-	W00984	-5	-5	-5	12	-20	-15	10	-10	-15	2	22
56-	44.6161-	109.1367-	2-	11-	0-	W00985	-5	-5	-5	13	-20	-15	18	-10	-15	2	23
56-	44.6017-	109.1239-	2-	15-	0-	W00986	-5	-5	-5	12	-20	-15	8	-10	-15	2	30
56-	44.6039-	109.0972-	2-	15-	0-	W00987	-5	-5	-5	21	-20	-15	11	-10	-15	2	24
56-	44.6144-	109.0869-	2-	15-	0-	W00988	-5	-5	-5	13	-20	-15	12	-10	-15	1	16
56-	44.5936-	109.0444-	2-	15-	0-	W00989	-5	-5	-5	25	-20	17	17	-10	-15	2	23
56-	44.5975-	109.0706-	2-	15-	0-	W00990	-5	-5	-5	27	-20	-15	9	-10	-15	2	27
56-	44.6044-	109.0214-	2-	15-	0-	W00991	-5	-5	-5	23	-20	-15	12	-10	-15	2	19
56-	44.5878-	109.0697-	2-	15-	0-	W00992	-5	-5	-5	10	-20	-15	5	-10	-15	2	17
56-	44.5858-	109.0717-	2-	12-	0-	W00993	-5	-5	-5	23	-20	-15	8	-10	-15	2	42
56-	44.6408-	109.0331-	2-	15-	0-	W00995	-5	-5	-5	20	-20	-15	15	-10	-15	2	25
56-	44.5433-	109.0333-	2-	15-	0-	W00996	-5	-5	-5	13	-20	-15	7	-10	-15	1	22
56-	44.6464-	109.0264-	2-	12-	0-	W00997	-5	-5	-5	26	-20	22	11	-10	-15	2	30
56-	44.6997-	109.0364-	2-	15-	0-	W00998	-5	-5	-5	26	-20	32	12	-10	-15	2	28
56-	44.7381-	109.0483-	2-	12-	0-	W00999	-5	-5	-5	13	-20	-15	6	-10	-15	2	20
56-	44.7406-	109.0508-	2-	15-	0-	W01000	-5	-5	-5	13	-20	-15	5	-10	-15	2	19
56-	44.7186-	109.1036-	2-	15-	0-	W01001	-5	-5	-5	21	-20	21	15	-10	-15	2	25
56-	44.7183-	109.1244-	2-	12-	0-	W01002	-5	-5	-5	16	-20	-15	7	-10	-15	-1	13
56-	44.7022-	109.1358-	2-	12-	0-	W01003	-5	-5	-5	10	-20	15	-5	-10	-15	1	17
56-	44.7011-	109.1317-	2-	12-	0-	W01004	-5	-5	-5	15	-20	16	-5	-10	-15	2	17
56-	44.7183-	109.0461-	2-	12-	0-	W01005	-5	-5	-5	20	-20	-15	12	-10	-15	2	28
56-	44.7525-	109.0403-	2-	15-	0-	W01006	-5	-5	-5	22	-20	-15	8	-10	-15	2	31
56-	44.6167-	109.2039-	2-	11-	0-	W01007	-5	-5	-5	14	-20	-15	6	-10	-15	1	18
56-	44.6219-	109.2275-	2-	11-	0-	W01008	-5	-5	-5	20	-20	-15	8	-10	-15	2	15
56-	44.6172-	109.2811-	2-	11-	0-	W01009	-5	-5	-5	16	-20	-15	5	-10	-15	2	24
56-	44.6342-	109.3361-	2-	11-	0-	W01010	-5	-5	-5	24	-20	18	-5	-10	-15	1	23
56-	44.6247-	109.3572-	2-	11-	0-	W01011	-5	-5	-5	24	-20	22	8	-10	-15	1	17
56-	44.6131-	109.2422-	2-	11-	0-	W01012	-5	-5	-5	20	-20	-15	17	-10	-15	2	23
56-	44.5992-	109.1308-	2-	15-	0-	W01013	-5	-5	-5	20	-20	16	9	-10	-15	2	24

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56	44.3789	109.3283	2	15	0	W00962	78160	-0.08	895	48290	64	-131	21.5	140	-2.1	4	1.2	49000	5.1	12240	35	0.2
56	44.3564	109.3200	2	12	0	W00963	53990	-0.05	584	23460	61	-77	8.0	51	3.4	5	1.2	18550	5.6	15470	23	0.3
56	44.3619	109.3019	2	12	0	W00964	54900	-0.11	382	37080	152	-114	26.1	332	-2.7	6	2.4	75400	32.3	14430	77	0.8
56	44.4650	109.2556	2	15	0	W00965	48830	-0.15	918	19480	48	231	4.7	38	2.9	3	0.8	14890	6.7	15340	-19	0.2
56	44.4797	109.3100	2	15	0	W00966	57770	-0.06	811	65460	52	-102	12.1	91	2.3	3	1.4	30670	4.3	18450	25	0.2
56	44.4756	109.3711	2	12	0	W00967	57760	-0.09	1031	51200	67	-108	17.5	153	-2.1	3	1.6	41120	6.0	11720	34	0.3
56	44.4714	109.3881	2	15	0	W00968	74980	-0.10	1131	44030	76	-109	27.0	185	-2.5	3	1.6	64860	7.3	16230	39	0.3
56	44.4347	109.3831	2	12	0	W00969	71050	-0.26	914	19390	81	-118	15.3	106	3.3	4	1.4	32410	4.5	19000	-25	0.5
56	44.4653	109.4031	2	12	0	W00970	78350	-0.06	1137	29930	79	162	13.4	114	-1.6	3	1.2	32080	7.7	14130	43	0.3
56	44.4678	109.4036	2	15	0	W00971	92770	-0.09	1066	53070	76	-122	16.0	195	-2.1	3	1.8	37260	8.8	13630	34	0.3
56	44.4225	109.4247	2	12	0	W00972	85560	-0.11	1285	54190	55	-123	25.6	242	-2.6	-1	1.3	57600	3.9	13670	30	-0.1
56	44.4369	109.4278	2	15	0	W00973	82590	-0.30	1215	38490	70	-130	22.1	181	-2.3	4	1.8	49260	5.0	13130	-31	-0.2
56	44.4600	109.4392	2	15	0	W00974	71850	-0.08	994	35230	86	-123	19.7	191	-1.9	5	1.8	50630	13.9	15700	46	0.4
56	44.7236	109.2156	2	15	0	W00975	50720	-0.05	634	22820	68	-68	5.8	46	2.7	4	1.3	13050	12.5	15020	31	0.4
56	44.7083	109.2128	2	15	0	W00976	43040	-0.07	466	24310	57	-56	7.1	43	4.0	4	1.1	16820	6.5	12370	32	0.3
56	44.6872	109.2106	2	12	0	W00977	46060	-0.14	647	13640	56	-80	5.3	48	4.1	4	1.2	15300	7.2	15250	-19	0.3
56	44.6853	109.1872	2	15	0	W00978	50180	-0.05	704	15120	49	-93	5.1	31	2.0	3	0.9	11510	7.3	17360	28	0.3
56	44.6697	109.2019	2	15	0	W00979	56490	-0.07	777	23120	73	-80	7.5	59	3.4	4	1.3	21550	9.2	16890	29	0.4
56	44.6675	109.1914	2	12	0	W00980	55640	-0.09	716	14800	84	-92	8.4	65	5.3	4	1.4	25010	10.6	19900	40	0.4
56	44.6664	109.1800	2	15	0	W00981	32750	-0.14	372	20650	48	75	4.2	37	2.9	4	0.9	10490	9.8	12060	-20	0.4
56	44.6417	109.1575	2	15	0	W00982	53300	-0.06	652	15320	53	-71	8.7	62	4.0	5	0.8	20820	6.9	19230	32	0.3
56	44.6250	109.1444	2	15	0	W00983	48970	0.10	1148	26490	112	-82	6.1	46	1.9	5	1.8	15910	28.6	14130	48	0.6
56	44.6278	109.1611	2	12	0	W00984	43390	-0.06	637	9104	70	-54	5.2	44	3.8	4	0.8	15640	11.6	15010	33	0.4
56	44.6161	109.1367	2	11	0	W00985	46920	-0.06	593	50030	46	-93	4.9	33	4.5	4	0.9	11990	4.9	16630	24	0.3
56	44.6017	109.1239	2	15	0	W00986	46730	-0.06	562	35430	62	-63	5.1	48	4.7	4	1.5	22380	8.2	13860	28	0.3
56	44.6039	109.0972	2	15	0	W00987	47210	-0.04	490	30870	60	-60	4.6	40	3.1	4	1.2	15990	12.1	15520	32	0.4
56	44.6144	109.0869	2	15	0	W00988	44570	-0.04	776	18500	68	-65	4.4	38	2.5	4	1.4	11480	9.5	16430	33	0.3
56	44.5936	109.0444	2	15	0	W00989	47190	-0.05	516	14360	69	-65	6.7	63	3.0	4	1.2	18700	15.5	14540	30	0.3
56	44.5975	109.0706	2	15	0	W00990	55250	-0.06	517	16150	70	-66	10.4	68	3.9	5	1.5	26550	9.1	16330	35	0.4
56	44.6044	109.0214	2	15	0	W00991	50630	-0.05	612	10290	60	-56	6.7	51	3.5	4	1.3	19960	11.1	14930	28	0.3
56	44.5878	109.0697	2	15	0	W00992	37350	-0.03	539	16330	53	-56	3.6	24	2.0	3	1.1	8960	5.5	12180	27	0.3
56	44.5858	109.0717	2	12	0	W00993	50100	-0.06	594	42460	61	-84	6.2	53	4.1	4	1.2	20190	5.7	16390	25	0.4
56	44.6408	109.0331	2	15	0	W00995	39810	-0.06	771	35540	70	-69	10.2	72	3.4	4	1.6	25980	15.1	12410	35	0.4
56	44.6433	109.0333	2	15	0	W00996	33770	-0.04	581	33450	61	-59	6.2	59	2.8	4	1.3	15700	12.6	14640	25	0.4
56	44.6464	109.0264	2	12	0	W00997	46590	-0.05	516	36440	56	-63	9.5	60	4.1	5	1.3	22460	5.3	16660	29	0.3
56	44.6997	109.0364	2	15	0	W00998	53600	-0.05	613	11760	72	-72	10.6	76	-1.3	4	1.4	26860	11.9	15660	34	0.4
56	44.7381	109.0483	2	12	0	W00999	44210	-0.05	566	33440	82	-71	7.7	79	2.1	5	1.2	22610	20.8	15280	40	0.5
56	44.7406	109.0508	2	15	0	W01000	42720	-0.05	597	20250	70	-66	6.4	50	2.8	4	1.0	15760	13.0	14210	26	0.4
56	44.7186	109.1036	2	15	0	W01001	43650	-0.05	473	42440	61	-72	8.4	62	-1.3	3	1.3	21150	6.0	13270	35	0.3
56	44.7183	109.1244	2	12	0	W01002	31060	-0.04	452	72070	43	-70	3.8	46	-1.0	2	0.5	11580	8.3	11360	22	0.3
56	44.7022	109.1358	2	12	0	W01003	37900	-0.05	462	67950	43	-70	5.6	48	-1.1	3	1.0	15160	8.1	13260	21	0.3
56	44.7011	109.1317	2	12	0	W01004	49450	-0.06	554	54870	67	-75	6.4	53	2.9	3	1.3	18530	12.0	10850	33	0.4
56	44.7183	109.0461	2	12	0	W01005	47030	-0.05	489	32820	53	-58	8.1	58	-1.3	4	1.3	20510	7.9	17870	29	0.3
56	44.7525	109.0403	2	15	0	W01006	54000	-0.05	559	23150	62	-62	8.8	71	3.4	4	1.3	24730	8.2	14530	31	0.4
56	44.6167	109.2039	2	11	0	W01007	39450	-0.05	707	7463	53	-60	4.7	32	3.2	3	1.1	16200	7.7	16040	20	0.2
56	44.6219	109.2275	2	11	0	W01008	48320	-0.07	559	10970	68	-64	5.6	44	5.3	4	1.2	16740	6.9	16950	31	0.3
56	44.6172	109.2811	2	11	0	W01009	50270	-0.06	698	50930	53	-46	7.0	46	8.1	4	1.2	22100	6.9	20330	26	0.4
56	44.6342	109.3361	2	11	0	W01010	43070	-0.05	589	44990	44	-64	8.2	60	2.5	4	1.1	20270	7.3	18420	19	0.3
56	44.6247	109.3572	2	11	0	W01011	43960	-0.07	497	91630	49	264	11.1	87	3.3	4	1.2	23290	5.6	18440	26	0.3
56	44.6131	109.2422	2	11	0	W01012	52280	-0.05	568	20980	62	-54	6.3	35	4.3	4	1.1	15780	5.9	20270	31	0.2
56	44.5992	109.1308	2	15	0	W01013	47130	-0.05	734	22060	58	-53	6.6	50	3.3	5	1.4	20310	10.2	17300	30	0.4

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.3789-109.3283-2-15-						0-W00962	40180	812	20590	-33	-2	20.8	5.1	1035	-1	-1	7.0	5036	152	-1.7	-43	0.229
56-44.3564-109.3200-2-12-						0-W00963	14560	452	7909	42	-1	6.2	5.1	-269	-1	-1	8.4	3177	70	3.1	97	0.333
56-44.3619-109.3019-2-12-						0-W00964	29860	996	17390	-45	-3	24.7	10.4	626	-2	-2	27.0	9514	208	6.8	-143	0.170
56-44.4550-109.2556-2-15-						0-W00965	14510	156	11350	-21	-3	4.6	6.0	-180	-1	-1	7.8	2382	65	-1.9	42	0.385
56-44.4797-109.3100-2-15-						0-W00966	52460	462	11210	-28	-2	10.0	4.0	393	-1	-1	6.5	2909	109	1.8	94	0.292
56-44.4756-109.3711-2-12-						0-W00967	43950	717	17800	-29	-2	18.1	5.6	617	-1	-1	8.1	4562	152	2.6	-36	0.247
56-44.4714-109.3881-2-15-						0-W00968	38960	750	19690	-41	-2	23.4	5.9	1059	-2	-1	8.7	4593	165	-1.8	-92	0.207
56-44.4347-109.3931-2-12-						0-W00969	24210	548	16030	73	-5	10.3	4.2	-301	-1	-1	10.0	4094	93	-3.3	55	0.280
56-44.4653-109.4031-2-12-						0-W00970	27370	505	19530	44	-1	10.6	5.7	948	-1	-1	12.5	3430	89	-1.2	104	0.216
56-44.4678-109.4036-2-15-						0-W00971	37270	597	24490	-29	-2	19.7	4.5	949	-1	-1	6.4	4913	160	-1.6	-38	0.250
56-44.4225-109.4247-2-12-						0-W00972	42620	723	23160	-43	-3	23.5	4.7	1331	-2	-1	5.4	4372	177	-2.1	115	0.241
56-44.4369-109.4279-2-15-						0-W00973	31420	632	20950	-42	-7	17.8	5.3	957	-1	-1	6.7	3642	110	-3.8	82	0.239
56-44.4630-109.4392-2-15-						0-W00974	34510	860	17330	-31	-2	15.7	6.5	845	-1	-1	15.2	6145	164	3.7	129	0.204
56-44.7236-109.2156-2-15-						0-W00975	23010	262	9235	37	-1	4.9	5.3	-214	-1	-1	7.6	3270	53	3.2	40	0.395
56-44.7083-109.2128-2-15-						0-W00976	21670	287	8162	53	-2	6.3	4.2	-211	-1	-1	8.5	2574	59	-1.4	-82	0.282
56-44.6872-109.2106-2-12-						0-W00977	12370	451	6031	81	-3	5.3	3.5	-248	-1		11.7	2204	55	-1.6	-20	0.291
56-44.6853-109.1872-2-15-						0-W00978	9700	287	10650	54	-1	3.9	4.1	-219	-1	-1	6.8	2302	43	-1.0	-23	0.338
56-44.6597-109.2019-2-15-						0-W00979	20990	460	7452	51	-2	7.0	5.4	409	-1	-1	11.7	3236	85	2.9	250	0.282
56-44.6675-109.1914-2-12-						0-W00980	23040	471	7253	-38	-2	8.0	5.3	-361	-2	-1	13.7	3254	82	3.9	69	0.263
56-44.6664-109.1300-2-15-						0-W00981	18000	173	1752	50	-3	4.0	4.0	-145	-1	-1	6.8	2475	47	2.7	66	0.382
56-44.6417-109.1575-2-15-						0-W00982	15950	217	5391	62	-1	7.5	4.5	-190	-1	-1	8.6	2821	122	-1.1	61	0.302
56-44.6250-109.1444-2-15-						0-W00983	16390	509	11910	67	-1	4.9	9.1	-260	-1	-1	16.5	5472	53	4.5	-44	0.242
56-44.6278-109.1611-2-12-						0-W00984	8811	126	5529	65	-1	5.5	4.5	261	-1	-1	8.0	2522	52	3.6	42	0.350
56-44.6151-109.1367-2-11-						0-W00985	20520	313	6535	66	-1	4.1	3.6	617	-1	-1	10.2	1737	36	2.6	80	0.373
56-44.6017-109.1239-2-15-						0-W00986	24140	272	5375	57	-1	6.9	-0.6	-172	-1	-1	10.3	2263	78	-1.0	102	0.252
56-44.6039-109.0972-2-15-						0-W00987	13180	319	6348	44	-1	5.3	4.5	-203	-1	-1	10.2	2317	52	2.8	-28	0.314
56-44.6144-109.0869-2-15-						0-W00988	7878	275	10230	61	-1	4.2	5.2	302	-1	-1	8.3	2680	44	2.2	48	0.301
56-44.5936-109.0444-2-15-						0-W00989	15030	350	5498	49	-1	6.6	5.0	-191	-1	-1	10.6	3213	66	3.4	58	0.283
56-44.5975-109.0706-2-15-						0-W00990	15730	335	5756	83	-1	9.0	5.4	-134	-1	-1	10.8	2637	67	3.2	81	0.231
56-44.6044-109.0214-2-15-						0-W00991	12260	274	5191	62	-1	5.9	4.3	-139	-1	-1	8.3	2935	63	2.7	-65	0.337
56-44.5878-109.0697-2-15-						0-W00992	10220	272	8515	-14	-1	3.2	3.9	286	-1		6.2	1757	30	2.1	26	0.290
56-44.5858-109.0717-2-12-						0-W00993	33180	326	7736	67	-1	5.9	4.5	-221	-1	-1	8.9	2522	90	2.5	-91	0.360
56-44.6408-109.0331-2-15-						0-W00995	20260	558	5539	79	-1	8.3	5.7	-221	-1	-1	14.1	2272	47	5.0	-26	0.227
56-44.6433-109.0333-2-15-						0-W00996	19770	424	5159	47	-1	5.1	4.5	-214	-1	-1	9.6	2538	44	3.6	44	0.323
56-44.6464-109.0264-2-12-						0-W00997	28150	495	5147	92	-1	5.8	4.5	-254	-1	-1	9.0	2893	66	2.9	-74	0.300
56-44.6997-109.0364-2-15-						0-W00998	15240	511	7519	46	-1	9.0	5.4	-246	-1	-1	11.5	4011	70	4.0	52	0.252
56-44.7381-109.0493-2-12-						0-W00999	17160	533	7515	52	-1	7.3	6.0	-247	-1	-1	16.7	3795	67	4.2	55	0.216
56-44.7406-109.0508-2-15-						0-W01000	17880	345	6958	42	-1	5.4	4.5	-183	-1	-1	10.1	2830	49	2.7	49	0.277
56-44.7186-109.1036-2-15-						0-W01001	29390	372	8243	67	-1	7.5	3.9	-187	-1	-1	9.5	1612	50	3.5	116	0.232
56-44.7183-109.1244-2-12-						0-W01002	30760	386	7704	37	-1	4.0	-0.4	-232	-1	-1	8.2	1939	32	2.2	-15	0.268
56-44.7022-109.1358-2-12-						0-W01003	35750	418	7412	54	-1	4.8	3.8	-231	-1	-1	7.4	2271	48	2.5	54	0.311
56-44.7011-109.1317-2-12-						0-W01004	19010	208	5994	-23	-1	5.2	5.0	675	-1	-1	10.1	3168	52	3.4	-35	0.277
56-44.7183-109.0461-2-12-						0-W01005	24060	448	5803	62	-1	6.8	4.3	-252	-1	-1	9.0	2557	55	2.7	64	0.311
56-44.7525-109.0403-2-15-						0-W01006	22270	445	5605	72	-1	8.1	5.1	-225	-1	-1	10.4	3166	68	2.6	-49	0.279
56-44.6167-109.2039-2-11-						0-W01007	7474	172	4535	61	-1	4.1	3.0	-165	-1	-1	6.5	2213	47	2.8	119	0.400
56-44.6219-109.2275-2-11-						0-W01008	7733	91	5356	106	-2	6.5	4.4	-150	-1	-1	11.0	2318	47	-1.1	156	0.345
56-44.6172-109.2811-2-11-						0-W01009	11790	407	944	72	-1	3.3	5.0	-232	-1	-1	8.3	3177	60	2.8	-32	0.301
56-44.6342-109.3361-2-11-						0-W01010	48010	340	5587	67	-1	7.3	3.6	-217	-1	-1	5.9	3233	60	1.9	121	0.305
56-44.6247-109.3572-2-11-						0-W01011	83430	241	5506	-27	-2	9.2	4.4	359	-1	-1	8.8	2444	69	-1.3	-25	0.250
56-44.6131-109.2422-2-11-						0-W01012	12320	151	4464	81	-1	5.9	4.1	-170	-1	-1	10.2	2294	53	3.0	-23	0.441
56-44.5992-109.1309-2-15-						0-W01013	13790	423	5139	51	-1	6.3	6.0	-208	-1	-1	10.4	2766	67	3.0	69	0.356

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.5469-109.1094-2-15-						0-W01014-06/03/77-14-	26-		-C-							8-1-1-4-1-	-1-	-2-3-2-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	2.70
56-44.5489-109.1392-2-15-						0-W01015-06/03/77-14-	28-		-	-	-	-	-	-	-	2-1-1-4-4-	-1-	-2-3-2-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-44.5572-109.1464-2-15-						0-W01016-06/03/77-15-	29-		-	-	-	-	-	-	-	3-1-4-4-4-	-1-	-2-3-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
56-44.5300-109.1789-2-15-						0-W01017-06/03/77-15-	24-		-	-	-	-	-	-	-	2-1-1-5-6-	-1-	-2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
56-44.5719-109.1822-2-12-						0-W01018-06/03/77-15-	27-	12.0	-	-	-	-	5.9	800	-	7-1-4-5-4-3-3-3-2-2-3-4-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10
56-44.5689-109.1806-2-15-						0-W01019-06/03/77-16-	27-		-	-	-	-	-	-	-	4-1-4-5-4-	-1-	-2-2-2-4-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
56-44.5861-109.2336-2-15-						0-W01020-06/03/77-17-	20-		-	-	-	-	-	-	-	3-1-4-5-6-	-1-	-1-2-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
56-44.5886-109.2322-2-15-						0-W01021-06/03/77-17-	20-		-	-	-	-	-	-	-	3-1-4-5-4-	-1-	-1-4-4-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
56-44.5900-109.2697-2-11-						0-W01022-06/03/77-17-	24-	9.0	-	-	-	-	5.9	2200	-	4-1-4-5-4-2-3-1-2-4-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56-44.6056-109.2711-2-15-						0-W01023-06/03/77-18-	26-		-	-	-	-	-	-	-	5-1-4-5-4-	-1-	-2-4-4-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
56-44.5347-109.1231-2-15-						0-W01024-06/04/77- 9-	19-		-	-	-	-	-	-	-	2-1-4-5-4-	-1-	-2-3-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
56-44.5231-109.1286-2-15-						0-W01025-06/04/77- 9-	19-		-	-	-	-	-	-	-	7-1-1-4-7-	-1-	-2-3-2-4-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-44.5136-109.1144-2-11-						0-W01026-06/04/77-10-	19-	27.0	-C-	-	-	-	6.3	1600	-	5-1-1-5-1-4-3-1-1-3-1-5-2-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20
56-44.5083-109.2189-2-15-						0-W01027-06/04/77-10-	26-		-	-	-	-	-	-	-	2-1-1-4-1-	-1-	-2-3-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
56-44.5047-109.2436-2-15-						0-W01028-06/04/77-10-	27-		-	-	-	-	-	-	-	3-1-1-5-1-	-1-	-2-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
56-44.5178-109.2658-2-15-						0-W01029-06/04/77-11-	27-		-	-	-	-	-	-	-	2-1-1-3-1-	-1-	-2-3-2-4-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
56-44.5192-109.2722-2-15-						0-W01030-06/04/77-11-	27-		-	-	-	-	-	-	-	4-1-1-5-1-	-1-	-2-3-2-4-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
56-44.5347-109.2825-2-15-						0-W01031-06/04/77-11-	30-		-	-	-	-	-	-	-	5-1-1-3-1-	-1-	-2-3-2-4-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40
56-44.5364-109.2878-2-12-						0-W01032-06/04/77-11-	34-	15.5	-	-	-	-	6.5	900	-	4-1-1-5-6-3-3-1-2-2-3-4-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
56-44.5389-109.2953-2-15-						0-W01033-06/04/77-12-	33-		-	-	-	-	-	-	-	4-1-1-4-1-	-1-	-2-3-2-4-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
56-44.5600-109.3097-2-15-						0-W01034-06/04/77-13-	27-		-	-	-	-	-	-	-	3-1-1-2-3-	-1-	-2-2-2-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
56-44.5575-109.3131-2-12-						0-W01035-06/04/77-13-	26-	17.5	-	-	-	-	6.5	910	-	2-1-7-5-7-3-3-3-2-2-2-4-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
56-44.5819-109.3492-2-15-						0-W01037-06/04/77-14-	28-		-	-	-	-	-	-	-	9-1-1-5-7-	-1-	-2-3-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-44.6000-109.3656-2-15-						0-W01038-06/04/77-14-	31-		-	-	-	-	-	-	-	5-1-1-	-	-	-1-	-2-1-2-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
56-44.6117-109.3847-2-11-						0-W01039-06/04/77-14-	28-	8.0	-	-	-	-	5.7	310	-	2-1-1-5-6-3-3-1-2-2-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70
56-44.6175-109.3942-2-12-						0-W01040-06/04/77-15-	22-	10.0	-	-	-	-	5.7	180	-	6-1-1-5-6-3-3-1-2-2-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20
56-44.6178-109.3897-2-15-						0-W01041-06/04/77-15-	22-		-	-	-	-	-	-	-	4-1-1-2-1-	-1-	-2-1-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
56-44.6700-109.7767-2-12-						0-W01042-06/05/77-13-	23-	8.5	-C-	-	-	-	5.5	170	-	1-1-7-5-6-5-4-3-2-1-4-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56-44.6653-109.7983-2-12-						0-W01043-06/05/77-14-	20-	9.0	-	-	-	-	5.5	28	-	5-1-7-2-7-4-4-3-2-1-4-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56-44.6631-109.7967-2-12-						0-W01044-06/05/77-14-	22-	8.5	-	-	-	-	5.5	28	-	5-1-7-2-7-4-4-3-2-1-4-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56-44.6633-109.7883-2-12-						0-W01045-06/05/77-14-	20-	8.0	-	-	-	-	5.7	23	-	6-1-7-3-7-4-4-3-2-1-4-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56-44.6658-109.7633-2-12-						0-W01046-06/05/77-15-	22-	8.5	-	-	-	-	5.5	26	-	7-1-7-2-7-4-4-3-2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
56-44.4525-109.4919-2-12-						0-W01047-06/04/77-13-	21-	15.0	-C-	-	-	-	6.9	175	-	15-4-9-4-6-2-2-1-2-2-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56-44.4719-109.4344-2-15-						0-W01049-06/04/77-15-	32-		-	-	-	-	-	-	-	6-3-7-4-6-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56-44.4803-109.4250-2-15-						0-W01050-06/04/77-16-	28-		-	-	-	-	-	-	-	15-3-7-4-6-	-1-	-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
56-44.4806-109.3956-2-12-						0-W01051-06/04/77-16-	28-	24.0	-C-	-	-	-	7.4	125	-	13-4-9-4-6-2-2-1-2-4-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
56-44.4892-109.3500-2-12-						0-W01052-06/04/77-17-	23-	18.0	-C-	-	-	-	6.6	100	-	2-4-9-4-6-3-2-2-2-2-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70
56-44.4892-109.3306-2-15-						0-W01053-06/04/77-17-	32-		-C-	-	-	-	-	-	-	2-1-1-4-6-	-1-	-2-4-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56-44.3231-109.8994-2-12-						0-W01054-07/27/77-12-	22-	12.0	-	-	-	-	5.7	90	-	1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.35
56-44.3103-109.9229-2-12-						0-W01055-07/27/77-12-	22-	12.0	-	-	-	-	5.7	90	-	1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.94
56-44.3089-109.8759-2-12-						0-W01056-07/27/77-12-	22-	12.0	-	-	-	-	5.7	90	-	1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.38
56-44.3022-109.8694-2-12-						0-W01057-07/27/77-13-	22-	12.0	-	-	-	-	5.5	50	-	1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.96
56-44.3017-109.8708-2-12-						0-W01058-07/27/77-13-	22-	12.0	-	-	-	-	5.5	50	-	1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.09
56-44.2922-109.7603-2-12-						0-W01059-07/27/77-14-	19-	11.0	-	-	-	-	6.1	250	-	1-1-6-3-6-3-2-1-2-1-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.06
56-44.2786-109.7939-2-12-						0-W01060-07/27/77-14-	18-	9.0	-	-	-	-	6.1	250	-	1-1-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.51
56-44.2772-109.8033-2-12-						0-W01061-07/27/77-15-	16-	11.0	-	-	-	-	6.1	240	-	1-1-6-3-6-5-2-1-2-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45
56-44.2733-109.8128-2-12-						0-W01062-07/27/77-15-	16-	11.0	-	-	-	-	6.1	250	-	1-1-6-3-6-3-3-2-1-2-2-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.11
56-44.3672-109.6844-2-12-						0-W01063-07/27/77-10-	15-	11.0	-	-	-	-	6.1	250	-	1-2-6-4-6-3-3-2-1-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.26
56-44.3658-109.6869-2-12-						0-W01064-07/27/77-10-	16-	11.0	-	-	-	-	6.1	250	-	1-2-6-4-6-3-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.27
56-44.3542-109.6717-2-15-						0-W01065-07/27/77-10-	15-		-C-	-	-	-	-	-	-	1-2-6-4-6-	-1-	-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.44
56-44.3514-109.6728-2-12-						0-W01066-07/27/77-10-	16-	11.0	-	-	-	-	5.5	50	-	1-3-6-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.99

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

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.5469-109.1094-2-15-						0-W01014	-5	-5	-5	21	-20	22	10	-10	-15	1	23
56-44.5489-109.1392-2-15-						0-W01015	-5	-5	-5	19	-20	26	14	-10	-15	1	23
56-44.5572-109.1464-2-15-						0-W01016	-5	-5	-5	16	-20	-15	5	-10	-15	1	21
56-44.5300-109.1789-2-15-						0-W01017	-5	-5	-5	27	-20	15	15	-10	-15	1	14
56-44.5719-109.1822-2-12-						0-W01018	-5	-5	-5	14	-20	-15	9	-10	-15	-1	15
56-44.5689-109.1906-2-15-						0-W01019	-5	-5	-5	27	-20	-15	-5	-10	-15	1	29
56-44.5861-109.2336-2-15-						0-W01020	-5	-5	-5	25	-20	-15	-5	-10	-15	1	17
56-44.5886-109.2322-2-15-						0-W01021	-5	-5	-5	29	-20	-15	12	-10	-15	1	30
56-44.5900-109.2697-2-11-						0-W01022										-1	8
56-44.6056-109.2711-2-15-						0-W01023	-5	-5	-5	24	-20	-15	9	-10	-15	2	35
56-44.5347-109.1231-2-15-						0-W01024	-5	-5	-5	19	-20	-15	10	-10	-15	2	35
56-44.5231-109.1286-2-15-						0-W01025	-5	-5	-5	20	-20	16	13	-10	-15	1	15
56-44.5136-109.1144-2-11-						0-W01026	-5	-5	-5	37	-20	25	9	-10	-15	1	23
56-44.5083-109.2189-2-15-						0-W01027	-5	-5	-5	35	-20	21	9	-10	-15	2	16
56-44.5047-109.2436-2-15-						0-W01028	-5	-5	-5	39	-20	15	10	-10	-15	2	29
56-44.5178-109.2658-2-15-						0-W01029	-5	-5	-5	27	-20	-15	9	-10	-15	1	23
56-44.5192-109.2722-2-15-						0-W01030	-5	5	-5	21	-20	35	10	-10	-15	2	16
56-44.5347-109.2825-2-15-						0-W01031	-5	-5	-5	20	-20	-15	19	-10	-15	2	19
56-44.5364-109.2878-2-12-						0-W01032	-5	-5	-5	18	-20	-15	8	-10	-15	2	19
56-44.5389-109.2953-2-15-						0-W01033	-5	-5	-5	14	-20	-15	14	-10	-15	2	20
56-44.5600-109.3097-2-15-						0-W01034	-5	-5	-5	28	-20	-15	11	-10	21	-1	16
56-44.5575-109.3131-2-12-						0-W01035	-5	-5	-5	22	-20	26	10	-10	-15	1	22
56-44.5819-109.3492-2-15-						0-W01037	-5	7	-5	30	-20	20	12	-10	-15	2	27
56-44.6000-109.3655-2-15-						0-W01038	5	-5	-5	27	-20	18	12	-10	-15	1	27
56-44.6117-109.3847-2-11-						0-W01039	-5	-5	-5	33	-20	28	10	-10	-15	2	16
56-44.6175-109.3942-2-12-						0-W01040	-5	-5	-5	53	32	48	8	-10	-15	1	15
56-44.6178-109.3897-2-15-						0-W01041	-5	-5	-5	38	-20	55	15	-10	18	2	30
56-44.6700-109.7767-2-12-						0-W01042	-5	-5	-5	57	-20	46	12	-10	-15	2	17
56-44.6653-109.7983-2-12-						0-W01043	-5	-5	-5	48	-20	36	16	-10	-15	2	11
56-44.6631-109.7967-2-12-						0-W01044	-5	-5	-5	51	-20	31	16	-10	-15	2	10
56-44.6633-109.7883-2-12-						0-W01045	-5	-5	-5	40	-20	43	5	-10	-15	2	13
56-44.6658-109.7533-2-12-						0-W01046	-5	-5	-5	54	-20	43	6	-10	-15	2	15
56-44.4525-109.4919-2-12-						0-W01047	-5	-5	-5	54	-20	72	11	-10	-15	2	15
56-44.4719-109.4344-2-15-						0-W01048	-5	-5	-5	28	-20	26	9	-10	-15	2	26
56-44.4803-109.4250-2-15-						0-W01050	-5	-5	-5	32	-20	33	15	-10	20	2	27
56-44.4806-109.3956-2-12-						0-W01051	-5	-5	-5	19	-20	37	14	-10	-15	2	27
56-44.4892-109.3500-2-12-						0-W01052	-5	-5	-5	49	-20	20	13	-10	-15	3	30
56-44.4892-109.3306-2-15-						0-W01053	-5	-5	-5	38	-20	27	8	-10	-15	2	37
56-44.3231-109.8994-2-12-						0-W01054										2	20
56-44.3103-109.9228-2-12-						0-W01055	-5	-5	-5	36	-20	39	20	-10	-15	2	23
56-44.3089-109.8758-2-12-						0-W01056	-5	-5	-5	43	-20	46	7	-10	-15	2	28
56-44.3022-109.8694-2-12-						0-W01057	-5	-5	-5	10	-20	35	12	-10	-15	2	21
56-44.3017-109.8708-2-12-						0-W01058	-5	-5	-5	21	-20	33	8	-10	-15	2	32
56-44.2922-109.7603-2-12-						0-W01059	-5	-5	-5	19	-20	37	8	-10	-15	2	23
56-44.2786-109.7939-2-12-						0-W01060	-5	-5	-5	22	-20	34	15	-10	-15	2	29
56-44.2772-109.8033-2-12-						0-W01061	-5	-5	-5	26	-20	37	15	-10	-15	2	28
56-44.2733-109.8128-2-12-						0-W01062	-5	-5	-5	15	-20	25	11	-10	-15	2	21
56-44.3672-109.6844-2-12-						0-W01063	-5	-5	-5	22	-20	31	11	-10	-15	2	21
56-44.3658-109.6869-2-12-						0-W01064	-5	-5	-5	31	-20	39	19	-10	-15	2	26
56-44.3542-109.6717-2-15-						0-W01065	-5	-5	-5	21	-20	-15	10	-10	-15	2	16
56-44.3514-109.6728-2-12-						0-W01066	-5	-5	7	10	-20	-15	-5	-10	-15	2	26

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.5469-	109.1094-	2-	15-	0-	W01014	46530	-0.06	506	25250	70	-72	10.4	49	2.3	5	1.2	24810	8.0	14840	31	0.4
56-	44.5489-	109.1392-	2-	15-	0-	W01015	40460	-0.06	337	16630	46	-58	9.1	86	-1.5	4	1.2	28230	12.7	7205	26	0.4
56-	44.5572-	109.1464-	2-	15-	0-	W01016	34780	-0.04	333	47990	46	-55	6.5	48	2.7	3	1.0	16380	9.2	13980	18	0.4
56-	44.5300-	109.1789-	2-	15-	0-	W01017	52250	-0.07	953	18110	38	-103	11.0	81	-1.7	2	1.1	24750	4.8	14040	18	-0.1
56-	44.5719-	109.1822-	2-	12-	0-	W01018	28030	-0.05	416	49350	50	-52	4.7	37	1.9	3	1.3	13380	12.1	11800	22	0.3
56-	44.5689-	109.1806-	2-	15-	0-	W01019	38380	-0.06	304	89740	54	-68	6.7	50	3.2	4	1.2	21820	6.9	14330	30	0.3
56-	44.5861-	109.2336-	2-	15-	0-	W01020	29710	-0.05	287	27240	36	-53	6.9	55	-1.2	2	0.7	17000	12.8	9434	17	0.3
56-	44.5886-	109.2322-	2-	15-	0-	W01021	50500	-0.06	534	10740	51	-79	9.6	56	2.6	5	1.1	24880	6.3	19040	24	-0.1
56-	44.5900-	109.2697-	2-	11-	0-	W01022	17250	-0.09	-156	173700	20	-107	4.0	32	-2.2	-1	-0.4	7438	-1.5	-3181	-8	-0.1
56-	44.6056-	109.2711-	2-	15-	0-	W01023	44660	-0.07	358	38040	58	-53	9.0	59	4.2	4	1.2	27120	9.2	19210	35	0.4
56-	44.5347-	109.1231-	2-	15-	0-	W01024	43430	-0.05	404	52770	52	-67	6.7	40	3.0	5	1.1	19670	8.1	16930	22	0.4
56-	44.5231-	109.1286-	2-	15-	0-	W01025	47540	-0.06	730	55330	48	-91	11.5	98	2.8	2	1.2	29190	5.4	9627	24	-0.1
56-	44.5136-	109.1144-	2-	11-	0-	W01026	35510	-0.07	476	86410	45	164	8.2	59	4.0	3	1.1	21870	5.1	10770	20	0.2
56-	44.5083-	109.2189-	2-	15-	0-	W01027	58150	-0.08	850	57900	63	-92	19.2	144	-2.0	4	1.1	46280	7.3	13880	31	0.3
56-	44.5047-	109.2436-	2-	15-	0-	W01028	56720	-0.06	862	43330	53	-89	12.9	101	2.6	4	1.2	34230	7.0	14950	25	0.3
56-	44.5178-	109.2658-	2-	15-	0-	W01029	44770	-0.06	519	94220	48	-71	10.7	88	2.2	3	1.1	28620	5.4	14940	26	0.2
56-	44.5192-	109.2722-	2-	15-	0-	W01030	50540	-0.06	705	63160	49	-74	12.4	105	2.3	3	1.2	30420	7.4	11060	21	0.3
56-	44.5347-	109.2825-	2-	15-	0-	W01031	51760	-0.07	693	44150	71	-73	9.2	67	4.3	4	0.8	27500	8.0	14160	34	0.3
56-	44.5364-	109.2878-	2-	12-	0-	W01032	53250	-0.06	772	59510	48	-90	11.1	116	-1.5	3	1.3	28070	5.8	12660	21	0.2
56-	44.5389-	109.2953-	2-	15-	0-	W01033	57290	-0.06	854	48450	47	-87	12.6	117	1.9	3	1.3	29700	6.5	13780	24	0.2
56-	44.5600-	109.3097-	2-	15-	0-	W01034	40170	-0.05	602	41780	53	-56	9.3	66	3.0	4	1.1	20680	11.1	14160	23	0.4
56-	44.5575-	109.3131-	2-	12-	0-	W01035	62970	-0.09	821	55350	75	-109	18.1	148	3.4	3	1.1	42230	6.6	13990	33	0.2
56-	44.5819-	109.3492-	2-	15-	0-	W01037	58220	-0.06	664	19560	63	-81	9.8	56	3.9	5	1.4	23320	7.1	15390	27	0.4
56-	44.6000-	109.3656-	2-	15-	0-	W01038	57340	-0.06	938	36230	54	-78	13.1	79	3.4	4	1.5	31410	8.2	16640	28	0.3
56-	44.6117-	109.3847-	2-	11-	0-	W01039	55670	-0.08	837	51090	46	-92	11.8	90	-1.9	3	1.2	28130	5.5	14910	25	-0.1
56-	44.6175-	109.3942-	2-	12-	0-	W01040	85010	-0.10	1025	53160	72	-130	30.1	214	-2.6	2	1.4	63680	3.3	13370	35	0.2
56-	44.6178-	109.3897-	2-	15-	0-	W01041	71330	-0.07	1050	27440	67	-100	18.5	153	3.3	3	1.0	38660	4.6	15660	28	0.2
56-	44.6700-	109.7767-	2-	12-	0-	W01042	83150	-0.08	1019	50280	56	-120	26.8	176	-2.0	3	1.7	59860	2.9	11100	31	-0.1
56-	44.6653-	109.7983-	2-	12-	0-	W01043	76820	-0.09	951	57070	63	-113	27.2	224	-2.3	2	1.7	69200	2.7	12520	27	0.2
56-	44.6631-	109.7967-	2-	12-	0-	W01044	93210	-0.10	998	49620	55	-129	25.7	161	-2.0	3	1.8	59790	2.4	9682	26	-0.1
56-	44.6633-	109.7883-	2-	12-	0-	W01045	84400	-0.11	873	58360	64	-136	24.7	150	-2.2	3	1.9	56950	1.9	15650	23	0.3
56-	44.6658-	109.7633-	2-	12-	0-	W01046	92290	-0.13	921	51980	71	-118	36.5	236	-2.5	3	2.0	77540	3.8	14340	43	0.3
56-	44.4525-	109.4919-	2-	12-	0-	W01047	74330	-0.12	1117	50060	65	-115	32.9	371	-2.4	3	1.3	82580	3.5	11720	32	0.3
56-	44.4719-	109.4344-	2-	15-	0-	W01049	82680	-0.12	1174	49040	41	-177	23.7	85	-2.6	4	1.3	42490	2.7	11360	29	-0.1
56-	44.4803-	109.4250-	2-	15-	0-	W01050	75430	-0.09	1054	40560	70	-118	18.0	161	-1.9	4	1.7	46200	7.3	15640	40	0.2
56-	44.4806-	109.3956-	2-	12-	0-	W01051	63550	-0.09	845	26030	76	-96	16.1	108	-1.7	4	1.0	32920	8.5	17380	42	0.3
56-	44.4892-	109.3500-	2-	12-	0-	W01052	57080	-0.10	953	47400	56	-99	26.6	253	-2.0	4	1.1	63870	4.5	10410	29	0.2
56-	44.4892-	109.3306-	2-	15-	0-	W01053	57850	-0.07	798	31000	57	-81	14.2	120	3.3	4	1.4	32650	5.3	14630	33	0.3
56-	44.3231-	109.8994-	2-	12-	0-	W01054	75270	-0.09	995	36590	99	-121	24.1	196	-2.4	4	1.5	51770	9.3	17120	50	0.2
56-	44.3103-	109.9228-	2-	12-	0-	W01055	69660	-0.11	760	21100	108	-123	9.3	97	-1.7	4	1.7	27380	12.4	17290	47	0.3
56-	44.3089-	109.8758-	2-	12-	0-	W01056	70770	-0.07	1127	36260	88	-124	16.4	142	-1.8	4	1.4	40750	8.6	14130	37	0.2
56-	44.3022-	109.8694-	2-	12-	0-	W01057	72640	-0.08	780	33920	127	-123	10.0	90	-2.0	7	2.6	34600	28.8	10790	50	0.3
56-	44.3017-	109.8708-	2-	12-	0-	W01058	70190	-0.08	878	35130	112	195	20.2	166	-2.0	4	1.9	50010	23.2	13140	57	0.4
56-	44.2922-	109.7603-	2-	12-	0-	W01059	59930	-0.12	925	31120	67	-100	16.7	158	2.7	3	1.7	36290	7.7	12920	39	0.4
56-	44.2786-	109.7939-	2-	12-	0-	W01060	61790	-0.06	838	34980	73	-105	14.5	136	-1.6	4	1.1	32680	9.6	17160	34	0.2
56-	44.2772-	109.8033-	2-	12-	0-	W01061	59740	-0.06	896	33860	74	-91	12.2	124	2.0	4	1.5	28660	8.2	14530	24	0.2
56-	44.2733-	109.8128-	2-	12-	0-	W01062	56110	-0.07	733	35580	70	-85	17.1	164	-1.9	4	1.8	37150	9.8	11790	39	0.3
56-	44.3672-	109.6844-	2-	12-	0-	W01063	58550	-0.08	804	32050	66	-102	14.2	137	3.6	4	1.6	31630	8.7	13350	33	0.2
56-	44.3658-	109.6869-	2-	12-	0-	W01064	50890	-0.07	716	35960	57	-108	13.6	124	3.3	5	1.4	30900	7.6	15030	31	0.3
56-	44.3542-	109.6717-	2-	15-	0-	W01065	65490	-0.07	599	30430	119	297	6.8	68	-1.7	6	2.5	23560	20.1	11820	51	0.5
56-	44.3514-	109.6728-	2-	12-	0-	W01066	71800	-0.09	476	29800	163	307	11.8	90	-2.4	7	3.4	47150	39.5	15420	75	0.5

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.5469-109.1094-2-15-						0-W01014	23090	593	5192	48	-1	7.7	5.4	-251	-1	-1	7.9	3470	62	2.6	69	0.342
56-44.5489-109.1392-2-15-						0-W01015	16690	325	4404	-23	-1	9.9	4.7	-175	-1	-1	8.5	2484	67	-1.5	-27	0.282
56-44.5572-109.1464-2-15-						0-W01016	35950	397	3880	37	-1	6.3	4.0	-216	-1	-1	6.3	2811	44	2.8	44	0.349
56-44.5300-109.1789-2-15-						0-W01017	18190	866	10190	-28	-2	8.2	2.5	-384	-1	-1	5.7	3802	75	-1.3	150	0.316
56-44.5719-109.1922-2-12-						0-W01018	27370	314	4043	-17	-1	4.8	4.7	-179	-1	-1	6.2	2399	42	2.6	-39	0.339
56-44.5689-109.1806-2-15-						0-W01019	29090	310	3637	56	-1	8.1	4.4	348	-1	-1	7.5	2673	53	2.7	73	0.293
56-44.5861-109.2336-2-15-						0-W01020	29820	470	2904	48	-1	5.9	2.7	-242	-1		5.2	2168	46	2.3	-56	0.500
56-44.5886-109.2322-2-15-						0-W01021	18410	715	7104	-28	-2	9.3	4.6	-315	-1	-1	7.5	4025	71	2.7	105	0.307
56-44.5900-109.2697-2-11-						0-W01022	14120	173	1930	-35	-2	2.4	-1.4	1722	-2	-1	2.8	1172	33	-1.9	-58	0.393
56-44.6056-109.2711-2-15-						0-W01023	29820	381	2305	101	-2	9.7	5.8	-197	-1	-1	10.0	3127	58	4.3	-35	0.190
56-44.5347-109.1231-2-15-						0-W01024	24560	344	4713	55	-1	6.9	4.2	-188	-1	-1	6.3	3230	54	2.5	45	0.349
56-44.5231-109.1286-2-15-						0-W01025	53070	552	10520	-26	-1	9.9	3.4	643	-1	-1	5.0	3084	99	1.8	-68	0.580
56-44.5136-109.1144-2-11-						0-W01026	34440	560	4979	-25	-1	6.6	-0.6	-291	-1	-1	6.1	2426	78	1.6	69	0.689
56-44.5083-109.2189-2-15-						0-W01027	43340	542	12250	-32	-2	16.3	5.2	591	-1	-1	8.3	3778	143	2.7	63	0.217
56-44.5047-109.2436-2-15-						0-W01028	38940	512	10950	43	-1	11.1	3.6	603	-1	-1	7.4	2940	132	2.6	51	0.270
56-44.5178-109.2658-2-15-						0-W01029	55780	492	6553	40	-1	9.5	4.0	-253	-1		6.8	3187	87	2.6	81	0.265
56-44.5192-109.2722-2-15-						0-W01030	49540	543	9857	-22	-1	10.6	4.2	598	-1	-1	5.8	3373	104	2.7	-81	0.328
56-44.5347-109.2825-2-15-						0-W01031	34840	335	6191	67	-2	9.5	5.7	-209	-1	-1	12.7	2658	68	3.9	-66	0.268
56-44.5364-109.2878-2-12-						0-W01032	34390	445	11720	-23	-1	12.3	3.5	634	-1	-1	5.7	3219	109	-1.1	54	0.316
56-44.5389-109.2953-2-15-						0-W01033	30310	470	12420	-25	-1	12.2	3.9	712	-1	-1	5.7	3139	107	-1.1	75	0.316
56-44.5600-109.3097-2-15-						0-W01034	32930	442	4187	71	-1	6.8	4.4	-216	-1	-1	7.7	3138	55	3.2	-21	0.299
56-44.5575-109.3131-2-12-						0-W01035	34550	594	11670	-35	-2	16.5	5.1	868	-1	-1	8.2	4142	125	-1.7	-45	0.280
56-44.5819-109.3492-2-15-						0-W01037	19830	474	8739	41	-1	9.9	5.0	398	-1	-1	9.4	2464	77	3.2	-76	0.319
56-44.6000-109.3656-2-15-						0-W01038	28000	611	9192	60	-1	11.0	4.8	-275	-1	-1	6.9	3817	100	2.8	105	0.290
56-44.6117-109.3847-2-11-						0-W01039	33260	540	11400	-28	-2	10.6	3.6	648	-1	-1	5.5	3750	103	2.4	117	0.309
56-44.6175-109.3942-2-12-						0-W01040	47220	687	22640	-41	-2	23.2	4.9	1218	-2	-1	5.7	4979	174	-2.3	-49	0.211
56-44.6178-109.3897-2-15-						0-W01041	31680	607	11740	-27	-2	12.1	-0.5	459	-1	-1	8.9	3912	99	2.8	80	0.213
56-44.6700-109.7767-2-12-						0-W01042	52640	930	22850	-33	-2	23.4	4.2	1019	-1	-1	3.4	4603	191	-1.5		0.324
56-44.6653-109.7983-2-12-						0-W01043	55080	1014	21380	-33	-2	30.3	4.6	1210	-1	3	3.0	5609	264	-1.7	-41	0.300
56-44.6631-109.7967-2-12-						0-W01044	43030	891	22660	-33	-2	25.6	4.9	1345	-1	-1	2.6	4827	206	-1.7	-41	0.346
56-44.6633-109.7883-2-12-						0-W01045	48010	864	23350	-32	-3	22.7	3.8	1033	-1	-1	2.8	5268	187	-1.9	-38	0.321
56-44.6658-109.7633-2-12-						0-W01046	46150	922	22300	-41	-3	33.1	4.9	1266	-1	-1	5.3	4492	190	-2.2	96	0.189
56-44.4525-109.4919-2-12-						0-W01047	52870	977	19550	-40	-3	32.0	-0.7	1148	-2	-1	4.8	7199	328	-2.0	122	0.229
56-44.4719-109.4344-2-15-						0-W01049	53250	793	21830	-42	-3	15.2	2.8	-470	-2	-1	3.7	4168	129	-2.2	129	0.297
56-44.4803-109.4250-2-15-						0-W01050	23800	725	13430	-28	-2	16.5	5.4	856	-1	-1	9.1	4394	147	2.8	56	0.253
56-44.4806-109.3956-2-12-						0-W01051	22420	509	16480	53	-2	12.1	6.9	-286	-1	-1	12.3	3248	77	3.9	99	0.203
56-44.4892-109.3500-2-12-						0-W01052	51420	739	14940	-35	-2	21.3	-0.7	702	-1	-1	5.8	6247	263	-1.7	88	0.293
56-44.4892-109.3306-2-15-						0-W01053	32120	493	9153	-24	-2	11.5	4.6	456	-1	-1	8.0	4046	138	2.5	-79	0.300
56-44.3231-109.8994-2-12-						0-W01054	31230	738	20790	-37	-2	15.4	7.4	836	-1	-1	11.8	4627	123	2.8	166	0.199
56-44.3103-109.9228-2-12-						0-W01055	22620	542	18400	65	-3	8.7	6.7	-299	-1	-1	12.9	3971	86	3.4	-62	0.230
56-44.3089-109.8759-2-12-						0-W01056	36250	604	19730	-31	-2	12.5	6.6	712	-1	-1	10.2	4214	129	-1.5	68	0.233
56-44.3022-109.8694-2-12-						0-W01057	25940	642	23450	-29	-2	11.6	11.5	-359	-1	-1	18.2	7484	98	4.0	-36	0.218
56-44.3017-109.8708-2-12-						0-W01058	33060	637	20390	-33	-2	16.3	9.3	902	-1	-1	15.5	5161	109	2.5	163	0.199
56-44.2922-109.7603-2-12-						0-W01059	31560	469	13900	-33	-3	12.4	5.1	534	-1	-1	8.4	3154	81	-1.9	80	0.245
56-44.2786-109.7939-2-12-						0-W01060	30220	531	13760	-27	-2	10.6	5.5	668	-1	-1	11.0	3682	96	3.0	129	0.228
56-44.2772-109.8033-2-12-						0-W01061	31250	517	12960	-24	-2	9.7	5.1	463	-1	-1	8.5	3299	89	1.8	-31	0.288
56-44.2733-109.8128-2-12-						0-W01062	32930	548	12520	-30	-2	12.8	5.7	673	-1	-1	9.1	3889	86	2.4	129	0.232
56-44.3672-109.6844-2-12-						0-W01063	31620	497	12730	-21	-2	10.8	-1.0	517	-1	-1	8.7	3084	91	2.3	68	0.260
56-44.3658-109.6869-2-12-						0-W01064	37510	540	12020	-31	-2	10.4	5.5	429	-1	-1	8.2	3432	92	3.3	67	0.277
56-44.3542-109.6717-2-15-						0-W01065	15330	455	23570	-25	-2	9.4	10.9	-305	-1	-1	13.8	4701	59	3.1	82	0.322
56-44.3514-109.6728-2-12-						0-W01066	15730	710	26270	-37	-2	15.8	16.5	704	-2	-1	22.2	8239	89	4.8	121	0.180

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	44.4644-	109.5953-	2-	12-		0-W01067-	07/04/77-	7-	14-	11.0-	-	-	5.9-	80-		0-3-7-2-6-3-3-2-2-1-3-4-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	3.02
56-	44.4639-	109.5989-	2-	12-		0-W01068-	07/04/77-	7-	16-	10.0-	-	-	5.8-	56-		0-3-7-2-6-3-3-2-2-1-3-4-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.27
56-	44.4972-	109.6106-	2-	12-		0-W01069-	07/04/77-	8-	16-	10.0-	-	-	6.0-	110-		0-3-1-3-4-3-2-1-2-1-3-4-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.53
56-	44.4983-	109.6122-	2-	12-		0-W01070-	07/04/77-	8-	15-	10.0-	-	-	6.1-	110-		0-3-1-3-4-2-2-1-2-1-3-4-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	2.04
56-	44.4572-	109.6317-	2-	12-		0-W01071-	07/04/77-	8-	16-	11.0-	-	-	5.9-	80-		0-2-7-2-7-3-3-1-2-1-3-4-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	2.21
56-	44.4431-	109.6444-	2-	12-		0-W01072-	07/04/77-	9-	18-	11.0-	-	-	6.3-	120-		0-2-7-2-7-3-3-1-2-1-3-4-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	2.68
56-	44.4269-	109.6564-	2-	12-		0-W01073-	07/04/77-	9-	18-	11.0-	C	-	6.2-	70-		0-2-7-2-7-3-3-1-2-1-3-4-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.22
56-	44.4275-	109.6606-	2-	12-		0-W01074-	07/04/77-	9-	18-	11.0-	-	-	6.2-	67-		0-2-7-2-7-3-3-1-2-1-3-4-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.14
56-	44.4053-	109.6725-	2-	12-		0-W01075-	07/04/77-	9-	18-	11.0-	-	-	6.9-	175-		0-2-7-4-8-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	3.16
56-	44.4042-	109.6694-	2-	12-		0-W01076-	07/04/77-	9-	18-	11.0-	-	-	5.7-	70-		0-2-7-3-4-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	0.90
56-	44.3833-	109.6786-	2-	12-		0-W01077-	07/04/77-	9-	18-	10.0-	-	-	6.1-	70-		0-2-7-3-4-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	3.73
56-	44.3828-	109.6761-	2-	12-		0-W01078-	07/04/77-	9-	18-	11.0-	-	-	5.9-	90-		0-2-7-3-4-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	3.71
56-	44.4664-	109.7003-	2-	12-		0-W01079-	07/04/77-	10-	18-	11.0-	-	-	5.9-	80-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	2.50
56-	44.5081-	109.6536-	2-	12-		0-W01080-	07/04/77-	10-	18-	11.0-	-	-	5.9-	58-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.34
56-	44.5261-	109.6597-	2-	12-		0-W01081-	07/04/77-	10-	18-	11.0-	-	-	5.9-	58-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.72
56-	44.5258-	109.6631-	2-	12-		0-W01082-	07/04/77-	10-	18-	11.0-	-	-	5.9-	60-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	2.28
56-	44.5392-	109.6744-	2-	12-		0-W01083-	07/04/77-	10-	18-	11.0-	-	-	5.8-	55-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.01
56-	44.5411-	109.6706-	2-	12-		0-W01084-	07/04/77-	10-	18-	11.0-	-	-	5.6-	85-		0-2-7-2-7-3-3-1-2-1-3-3-3-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.27
56-	44.4258-	109.7606-	2-	12-		0-W01085-	07/04/77-	12-	22-	12.0-	-	-	6.2-	175-		0-2-7-3-4-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	3.42
56-	44.4256-	109.7586-	2-	12-		0-W01086-	07/04/77-	12-	22-	11.5-	-	-	6.2-	175-		0-2-7-3-4-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.17
56-	44.4558-	109.7717-	2-	12-		0-W01087-	07/04/77-	12-	22-	11.0-	-	-	6.2-	112-		0-2-7-3-4-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	0.79
56-	44.4278-	109.7875-	2-	12-		0-W01088-	07/04/77-	13-	23-	11.0-	-	-	5.9-	64-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.79
56-	44.4169-	109.7939-	2-	12-		0-W01089-	07/04/77-	13-	23-	11.0-	-	-	5.9-	65-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.75
56-	44.4514-	109.7944-	2-	12-		0-W01090-	07/04/77-	14-	24-	11.0-	-	-	5.7-	65-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	2.69
56-	44.4497-	109.8333-	2-	12-		0-W01091-	07/04/77-	14-	24-	11.0-	-	-	6.1-	70-		0-2-7-3-4-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.20
56-	44.4197-	109.8536-	2-	12-		0-W01092-	07/04/77-	15-	24-	11.0-	-	-	5.7-	75-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.20
56-	44.3953-	109.8603-	2-	12-		0-W01093-	07/04/77-	15-	24-	11.0-	-	-	5.7-	65-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.20
56-	44.3942-	109.8639-	2-	12-		0-W01094-	07/04/77-	15-	25-	11.0-	-	-	5.7-	65-		0-2-7-3-4-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	0.80
56-	44.3936-	109.8617-	2-	12-		0-W01095-	07/04/77-	15-	24-	11.0-	-	-	5.6-	75-		0-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.20
56-	44.1886-	109.5367-	2-	12-		0-W01096-	07/06/77-	6-	14-	11.0-	-	-	5.7-	130-		1-2-6-3-6-3-2-1-2-1-3-3-1-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.60
56-	44.1333-	109.6139-	2-	12-		0-W01097-	07/06/77-	14-	22-	11.0-	C	-	5.7-	140-		1-2-6-5-6-3-2-4-1-4-3-2-1-				-3-	-	-	-	-	-	-	-	-	-	-	-	1.60
56-	44.0339-	109.5928-	2-	12-		0-W01098-	07/06/77-	18-	16-	12.0-	-	-	5.7-	140-		1-2-6-2-5-3-2-1-2-1-5-4-1-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.60
56-	44.0322-	109.5933-	2-	12-		0-W01099-	07/06/77-	18-	18-	12.0-	-	-	5.7-	140-		1-2-6-2-6-3-2-1-2-1-5-4-1-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.90
56-	44.0336-	109.5858-	2-	12-		0-W01100-	07/06/77-	18-	16-	12.0-	-	-	5.7-	130-		1-2-6-2-6-3-2-1-2-1-5-4-1-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.60
56-	44.0069-	109.5697-	2-	12-		0-W01101-	07/06/77-	19-	14-	9.0-	-	-	5.7-	100-		1-2-6-3-6-3-2-1-2-1-4-3-1-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.10
56-	44.0058-	109.5711-	2-	12-		0-W01102-	07/06/77-	14-	14-	9.0-	-	-	5.7-	90-		1-2-6-3-6-3-2-1-2-1-4-3-1-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.20
56-	44.1281-	109.6547-	2-	12-		0-W01103-	07/05/77-	18-	16-	14.0-	C	-	5.7-	140-		1-2-6-5-6-2-2-3-2-4-3-2-2-				-3-	-	-	-	-	-	-	-	-	-	-	-	1.80
56-	44.1261-	109.6556-	2-	12-		0-W01104-	07/05/77-	18-	16-	14.0-	C	-	5.7-	140-		1-2-6-5-6-2-2-2-1-3-3-2-2-				-3-	-	-	-	-	-	-	-	-	-	-	-	2.60
56-	44.1208-	109.6781-	2-	12-		0-W01105-	07/05/77-	19-	16-	16.0-	C	-	5.7-	130-		1-2-6-5-6-2-2-2-1-3-3-3-2-				-3-	-	-	-	-	-	-	-	-	-	-	-	1.70
56-	44.1172-	109.6814-	2-	12-		0-W01106-	07/05/77-	19-	16-	12.0-	C	-	5.7-	140-		1-2-6-5-6-2-2-2-1-3-3-2-2-				-3-	-	-	-	-	-	-	-	-	-	-	-	1.70
56-	44.1169-	109.6792-	2-	12-		0-W01107-	07/05/77-	19-	16-	13.0-	C	-	5.7-	140-		1-2-6-5-6-3-2-2-2-3-4-3-2-				-3-	-	-	-	-	-	-	-	-	-	-	-	1.70
56-	44.1086-	109.7175-	2-	12-		0-W01108-	07/05/77-	20-	12-	11.0-	-	-	5.7-	160-		1-2-6-3-6-3-2-1-2-1-3-4-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.50
56-	44.1103-	109.7189-	2-	12-		0-W01109-	07/05/77-	20-	12-	11.0-	-	-	5.7-	140-		1-2-6-5-6-3-2-2-1-3-4-2-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	2.60
56-	44.1114-	109.7175-	2-	12-		0-W01110-	07/05/77-	20-	12-	11.0-	-	-	5.7-	100-		1-2-6-4-6-4-2-1-2-1-2-4-2-				-1-	-	-	-	-	-	-	-	-	-	-	-	2.70
56-	44.1031-	109.6361-	2-	12-		0-W01111-	07/06/77-	5-	9-	12.0-	-	-	5.7-	130-		1-2-6-4-6-2-2-2-1-4-2-2-1-				-3-	-	-	-	-	-	-	-	-	-	-	-	1.70
56-	44.0978-	109.6428-	2-	12-		0-W01112-	07/06/77-	6-	10-	12.0-	-	-	5.7-	150-		1-2-6-5-6-1-2-2-1-4-2-3-1-				-3-	-	-	-	-	-	-	-	-	-	-	-	1.80
56-	44.0772-	109.6453-	2-	12-		0-W01113-	07/06/77-	7-	10-	13.0-	-	-	5.7-	140-		1-2-6-4-6-2-2-1-2-2-2-2-1-				-3-	-	-	-	-	-	-	-	-	-	-	-	1.70
56-	44.0686-	109.6492-	2-	12-		0-W01114-	07/06/77-	9-	10-	12.0-	-	-	5.7-	140-		1-2-6-4-6-2-2-1-2-3-2-2-1-				-3-	-	-	-	-	-	-	-	-	-	-	-	3.00
56-	44.0267-	109.6708-	2-	12-		0-W01115-	07/06/77-	8-	13-	10.0-	-	-	5.7-	60-		1-2-6-4-6-3-2-1-2-3-3-3-1-				-1-	-	-	-	-	-	-	-	-	-	-	-	2.70
56-	44.0281-	109.6775-	2-	12-		0-W01116-	07/06/77-	8-	13-	10.0-	-	-	5.7-	90-		-2-6-4-6-3-2-1-2-3-2-3-1-				-1-	-	-	-	-	-	-	-	-	-	-	-	1.20
56-	44.0264-	109.6769-	2-	12-		0-W01117-	07/06/77-	8-	13-	10.0-	-	-	5.7-	95-		1-2-6-4-6-3-2-1-2-3-2-3-1-				-1-	-	-	-	-	-	-	-	-	-	-	-	3.30

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

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-	44.4644-	109.5953-	2-	12-	0-	W01067	-5	-5	7	24	-20	18	8	-10	-15	2	30
56-	44.4639-	109.5989-	2-	12-	0-	W01068	-5	-5	-5	63	-20	39	-5	-10	-15	2	15
56-	44.4972-	109.6106-	2-	12-	0-	W01069	-5	-5	-5	21	25	47	-5	-10	-15	2	23
56-	44.4983-	109.6122-	2-	12-	0-	W01070	-5	-5	-5	40	20	23	-5	-10	-15	2	25
56-	44.4572-	109.6317-	2-	12-	0-	W01071	-5	-5	-5	35	-20	-15	12	-10	-15	2	18
56-	44.4431-	109.6444-	2-	12-	0-	W01072	-5	-5	-5	21	-20	15	14	-10	-15	2	21
56-	44.4269-	109.6564-	2-	12-	0-	W01073	-5	5	-5	48	24	16	8	-10	-15	1	16
56-	44.4275-	109.6606-	2-	12-	0-	W01074	-5	-5	-5	66	-20	-15	-5	-10	-15	2	13
56-	44.4053-	109.6725-	2-	12-	0-	W01075	-5	-5	-5	22	-20	32	10	-10	-15	2	29
56-	44.4042-	109.6694-	2-	12-	0-	W01076	-5	-5	-5	75	-20	-15	-5	-10	-15	2	15
56-	44.3933-	109.6786-	2-	12-	0-	W01077	-5	-5	-5	18	-20	-15	9	-10	-15	2	36
56-	44.3828-	109.6761-	2-	12-	0-	W01078	-5	-5	-5	47	-20	18	12	-10	-15	2	22
56-	44.4664-	109.7303-	2-	12-	0-	W01079	-5	-5	-5	51	-20	29	14	-10	-15	2	35
56-	44.5081-	109.6536-	2-	12-	0-	W01080	-5	-5	-5	31	-20	101	18	-10	-15	1	21
56-	44.5261-	109.6597-	2-	12-	0-	W01081	-5	-5	-5	35	-20	63	16	-10	-15	2	24
56-	44.5258-	109.6631-	2-	12-	0-	W01082	-5	-5	-5	26	-20	31	12	-10	-15	2	35
56-	44.5392-	109.6744-	2-	12-	0-	W01083	-5	-5	-5	29	-20	39	7	-10	-15	2	16
56-	44.5411-	109.6706-	2-	12-	0-	W01084	-5	-5	-5	68	-20	-15	9	-10	-15	2	22
56-	44.4258-	109.7506-	2-	12-	0-	W01085	-5	-5	-5	17	-20	-15	20	-10	-15	1	33
56-	44.4256-	109.7586-	2-	12-	0-	W01086	-5	-5	-5	42	-20	106	11	-10	-15	1	19
56-	44.4558-	109.7717-	2-	12-	0-	W01087	-5	-5	-5	43	-20	23	-5	-10	-15	1	12
56-	44.4278-	109.7875-	2-	12-	0-	W01088	-5	-5	-5	38	-20	29	11	-10	-15	2	27
56-	44.4169-	109.7939-	2-	12-	0-	W01089	-5	-5	-5	26	-20	29	16	-10	-15	1	19
56-	44.4514-	109.7944-	2-	12-	0-	W01090	-5	-5	-5	29	-20	31	10	-10	-15	1	24
56-	44.4497-	109.8333-	2-	12-	0-	W01091	-5	-5	-5	29	-20	39	-5	-10	-15	1	17
56-	44.4197-	109.8536-	2-	12-	0-	W01092	-5	-5	-5	40	-20	58	-5	-10	-15	2	19
56-	44.3953-	109.8603-	2-	12-	0-	W01093	-5	-5	-5	43	-20	67	8	-10	-15	2	20
56-	44.3942-	109.8639-	2-	12-	0-	W01094	-5	-5	-5	44	-20	21	-5	-10	-15	2	16
56-	44.3936-	109.8617-	2-	12-	0-	W01095	-5	-5	-5	51	-20	56	-5	-10	-15	2	16
56-	44.1886-	109.5367-	2-	12-	0-	W01096										2	25
56-	44.1333-	109.6139-	2-	12-	0-	W01097	-5	-5	-5	50	-20	25	-5	-10	-15	2	21
56-	44.0339-	109.5928-	2-	12-	0-	W01098	-5	-5	-5	43	-20	59	-5	-10	-15	2	25
56-	44.0322-	109.5933-	2-	12-	0-	W01099	-5	-5	-5	44	-20	29	13	-10	-15	2	22
56-	44.0336-	109.5858-	2-	12-	0-	W01100	-5	-5	-5	51	-20	27	13	-10	-15	2	22
56-	44.0069-	109.5697-	2-	12-	0-	W01101	-5	-5	-5	40	-20	85	-5	-10	-15	2	24
56-	44.0058-	109.5711-	2-	12-	0-	W01102	-5	-5	-5	37	-20	78	-5	-10	-15	3	29
56-	44.1281-	109.6547-	2-	12-	0-	W01103	-5	-5	-5	58	-20	26	13	-10	-15	3	24
56-	44.1261-	109.6556-	2-	12-	0-	W01104	-5	-5	-5	22	-20	20	11	-10	-15	2	59
56-	44.1208-	109.6781-	2-	12-	0-	W01105	-5	-5	-5	40	-20	57	12	-10	-15	2	27
56-	44.1172-	109.6814-	2-	12-	0-	W01106	-5	-5	-5	39	-20	47	8	-10	-15	2	32
56-	44.1169-	109.6792-	2-	12-	0-	W01107	-5	-5	-5	53	-20	55	-5	-10	-15	3	27
56-	44.1086-	109.7175-	2-	12-	0-	W01108	-5	-5	-5	27	-20	48	9	-10	-15	2	21
56-	44.1103-	109.7189-	2-	12-	0-	W01109	-5	-5	-5	25	-20	25	16	-10	-15	2	24
56-	44.1114-	109.7175-	2-	12-	0-	W01110	-5	-5	-5	22	-20	-15	11	-10	-15	2	28
56-	44.1031-	109.6361-	2-	12-	0-	W01111	-5	-5	-5	51	-20	48	6	-10	-15	3	23
56-	44.0978-	109.6428-	2-	12-	0-	W01112	-5	-5	-5	46	-20	65	-5	-10	-15	3	22
56-	44.0772-	109.6453-	2-	12-	0-	W01113	-5	-5	-5	39	-20	41	9	-10	-15	2	21
56-	44.0686-	109.6492-	2-	12-	0-	W01114	-5	-5	-5	23	-20	-15	8	-10	-15	2	31
56-	44.0267-	109.6708-	2-	12-	0-	W01115	-5	-5	-5	24	-20	17	10	-10	-15	2	24
56-	44.0281-	109.6775-	2-	12-	0-	W01116	-5	-5	-5	31	-20	81	14	-10	-15	2	21
56-	44.0264-	109.6769-	2-	12-	0-	W01117	-5	-5	-5	23	-20	19	10	-10	-15	2	32

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.4644-	109.5953-2-12-				0-W01067	72990	-0.11	917	31070	99	-124	14.2	130	-1.7	4	2.1	41010	17.2	17050	53	0.3
56-	44.4633-	109.5989-2-12-				0-W01068	73770	-0.08	1123	52120	56	-125	29.8	324	-2.2	3	1.1	72340	3.1	10090	31	0.2
56-	44.4972-	109.6106-2-12-				0-W01069	84000	-0.07	1352	47220	94	-120	20.8	207	-2.0	2	1.8	40960	3.6	13810	40	-0.1
56-	44.4983-	109.6122-2-12-				0-W01070	73590	-0.09	850	31530	103	-116	17.8	165	2.5	4	2.5	49360	11.3	14660	54	0.4
56-	44.4572-	109.6317-2-12-				0-W01071	69750	-0.12	1044	39160	80	-119	16.3	135	-1.8	3	1.7	37310	7.5	10570	38	0.2
56-	44.4431-	109.6444-2-12-				0-W01072	67770	-0.06	953	21770	82	-122	11.6	96	2.8	5	1.9	28880	9.9	16970	44	0.3
56-	44.4269-	109.6564-2-12-				0-W01073	81650	-0.09	1313	57320	67	-125	25.1	120	-2.5	3	1.8	58630	2.9	14270	27	-0.1
56-	44.4275-	109.6606-2-12-				0-W01074	79600	-0.10	1217	56810	65	-113	33.6	185	-2.7	3	1.5	82010	3.5	13680	30	0.2
56-	44.4053-	109.6725-2-12-				0-W01075	72780	-0.14	865	26060	130	-127	16.4	130	-2.2	5	2.7	47410	22.3	14110	70	0.4
56-	44.4042-	109.6694-2-12-				0-W01076	67520	-0.09	955	69220	50	-123	35.0	419	-2.5	3	1.0	86880	-1.1	8519	25	-0.1
56-	44.3833-	109.6786-2-12-				0-W01077	72530	-0.07	913	25810	138	-109	13.2	100	-1.8	6	2.3	39240	24.3	14420	56	0.5
56-	44.3828-	109.6761-2-12-				0-W01078	74630	-0.09	1015	32790	159	-110	18.9	132	-2.3	5	2.8	64010	39.0	15740	74	0.6
56-	44.4664-	109.7003-2-12-				0-W01079	78040	-0.09	1359	36630	83	-124	21.3	136	-1.6	3	2.3	51010	10.1	15150	37	0.3
56-	44.5081-	109.6536-2-12-				0-W01080	75810	-0.08	1186	56030	56	-139	28.3	383	-2.2	2	1.0	54740	2.8	8689	32	0.2
56-	44.5261-	109.6597-2-12-				0-W01081	82340	-0.08	1274	48370	76	-124	20.5	177	-2.1	2	1.6	45110	3.6	14460	32	-0.1
56-	44.5258-	109.6631-2-12-				0-W01082	72930	-0.08	1026	35790	93	-105	19.5	201	-2.1	3	1.5	47610	8.8	15740	46	0.2
56-	44.5392-	109.6744-2-12-				0-W01083	65690	-0.16	817	54820	47	-132	35.2	465	-2.8	3	1.4	90180	-1.2	12810	-11	-0.2
56-	44.5411-	109.6706-2-12-				0-W01084	81320	-0.08	1486	50580	57	-134	28.1	101	-2.2	3	1.3	55990	2.2	17060	28	0.2
56-	44.4258-	109.7606-2-12-				0-W01085	73220	-0.07	967	25530	123	-112	10.4	88	-1.7	5	2.2	31340	20.0	15310	48	0.4
56-	44.4256-	109.7586-2-12-				0-W01086	70510	-0.11	1130	56870	81	-114	34.8	539	-2.8	3	1.2	68770	4.0	8897	44	0.2
56-	44.4558-	109.7717-2-12-				0-W01087	78520	-0.15	930	54330	51	-131	25.7	157	-2.4	2	1.7	63970	2.3	19410	31	-0.1
56-	44.4278-	109.7875-2-12-				0-W01088	82410	-0.07	1298	45530	74	-135	20.5	146	-2.0	3	1.2	42650	3.9	15670	40	0.3
56-	44.4169-	109.7939-2-12-				0-W01089	81560	-0.08	1166	47420	73	-124	19.1	129	-2.0	3	1.6	40530	3.9	17860	41	0.4
56-	44.4514-	109.7944-2-12-				0-W01090	65860	-0.08	968	31700	100	-107	15.7	152	-2.2	4	1.4	40560	16.0	13660	56	0.4
56-	44.4497-	109.8333-2-12-				0-W01091	78450	-0.17	1027	48740	77	-141	36.9	244	-2.9	3	1.4	87120	3.6	12940	38	-0.2
56-	44.4197-	109.8536-2-12-				0-W01092	81630	-0.08	1194	54000	60	-134	23.7	168	-2.0	2	1.2	51670	2.0	14430	33	0.1
56-	44.3953-	109.8603-2-12-				0-W01093	84330	-0.09	1357	57030	63	-124	22.4	167	-2.2	2	1.9	49500	2.5	13490	33	-0.1
56-	44.3942-	109.8639-2-12-				0-W01094	73660	-0.11	774	60980	58	-113	39.0	229	-2.8	2	1.9	93660	2.5	9316	27	-0.1
56-	44.3936-	109.8617-2-12-				0-W01095	76710	-0.10	1366	49640	68	-130	26.5	197	-1.7	2	1.7	57340	2.3	12250	33	-0.1
56-	44.1886-	109.5367-2-12-				0-W01096	76490	-0.07	1304	45110	66	-128	24.2	181	-1.9	2	1.2	50710	3.6	16220	33	0.2
56-	44.1333-	109.6139-2-12-				0-W01097	79010	-0.09	1430	48540	70	-124	27.2	200	-2.4	3	1.8	59520	3.8	14570	34	0.2
56-	44.0339-	109.5928-2-12-				0-W01098	78800	-0.09	1189	47070	90	-110	28.9	264	-2.2	2	1.1	57830	5.5	15420	43	-0.1
56-	44.0322-	109.5933-2-12-				0-W01099	81720	-0.12	1210	39200	65	-132	20.7	139	-2.0	3	1.1	47810	2.9	14090	41	0.2
56-	44.0336-	109.5858-2-12-				0-W01100	82300	-0.08	1357	44730	69	-144	20.5	136	-2.2	3	1.1	48160	4.2	15640	33	-0.1
56-	44.0069-	109.5697-2-12-				0-W01101	69750	-0.10	924	61080	70	-125	26.6	444	-2.7	3	1.5	56060	2.7	8086	28	-0.1
56-	44.0058-	109.5711-2-12-				0-W01102	72990	-0.11	1184	52430	82	-120	33.4	465	-2.9	3	1.5	68780	4.0	13300	42	-0.1
56-	44.1281-	109.6547-2-12-				0-W01103	77560	-0.14	1355	43380	67	-133	25.7	178	-2.3	2	1.7	58110	3.8	12580	36	-0.1
56-	44.1261-	109.6556-2-12-				0-W01104	63410	-0.06	872	48410	61	-103	10.3	51	4.5	3	0.8	28340	4.0	13220	35	0.2
56-	44.1208-	109.6781-2-12-				0-W01105	77310	-0.09	1267	47020	65	-120	25.9	206	-2.3	2	1.7	61270	4.0	15110	32	-0.1
56-	44.1172-	109.6814-2-12-				0-W01106	81630	-0.09	1358	44450	74	-113	29.8	145	3.8	3	1.4	62770	3.7	17990	37	-0.1
56-	44.1169-	109.6792-2-12-				0-W01107	77170	-0.16	1186	44350	74	-131	35.4	249	-2.5	2	1.4	80040	4.7	14250	46	0.3
56-	44.1086-	109.7175-2-12-				0-W01108	80350	-0.08	1217	50220	78	-141	23.7	235	-2.1	3	1.2	45770	4.2	11270	40	-0.1
56-	44.1103-	109.7189-2-12-				0-W01109	69090	-0.07	842	34070	103	-106	13.5	117	-1.8	4	1.8	33170	12.0	14330	42	0.2
56-	44.1114-	109.7175-2-12-				0-W01110	69640	-0.09	952	32020	107	-107	17.5	155	-2.3	4	2.2	44540	14.5	14070	61	0.4
56-	44.1031-	109.6361-2-12-				0-W01111	75770	-0.10	1323	45280	69	-134	28.0	186	-1.7	3	1.9	63820	3.8	14260	42	-0.1
56-	44.0978-	109.6428-2-12-				0-W01112	76260	-0.09	1104	48950	64	-144	29.2	240	-2.4	3	1.2	70760	4.7	14850	30	0.3
56-	44.0772-	109.6453-2-12-				0-W01113	79920	-0.09	1330	46480	81	-127	23.5	195	-2.4	3	1.8	56930	5.2	14890	37	0.2
56-	44.0686-	109.6492-2-12-				0-W01114	68420	-0.07	853	20010	112	-98	11.6	99	2.7	5	1.5	34060	15.6	17980	58	0.4
56-	44.0267-	109.6708-2-12-				0-W01115	70100	-0.10	851	22830	103	-119	11.7	79	2.4	5	1.9	31750	13.0	16000	57	0.4
56-	44.0281-	109.6775-2-12-				0-W01116	71940	-0.08	926	60800	61	-133	25.4	392	-2.2	3	1.1	55380	3.4	9828	33	0.2
56-	44.0264-	109.6769-2-12-				0-W01117	74410	-0.08	1075	29070	118	-124	11.7	74	-1.9	6	2.1	32410	19.3	15550	45	0.4

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

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.4644-	109.5953-	2-12-	0-	W01067			32330	630	21980	-32	-3	13.2	7.8	794	-1	-1	14.7	4458	127	2.6	149	0.205
56-44.4639-	109.5989-	2-12-	0-	W01068			48000	913	19660	54	-2	25.8	5.2	829	-1	-1	4.7	6303	315	-1.6	111	0.270
56-44.4972-	109.6106-	2-12-	0-	W01069			42540	656	24710	-29	-2	14.9	4.9	1343	-1	-1	6.9	4949	135	-1.5	-34	0.222
56-44.4983-	109.6122-	2-12-	0-	W01070			33340	560	21930	98	-2	17.9	9.6	827	-1	-1	14.5	4672	123	3.1	117	0.141
56-44.4572-	109.6317-	2-12-	0-	W01071			41070	639	18610	-30	-3	12.7	5.1	935	-1	-1	8.7	4330	128	-2.0		0.254
56-44.4431-	109.6444-	2-12-	0-	W01072			26250	550	19240	-29	-1	9.4	6.4	388	-1	-1	12.8	3800	75	2.1	92	0.209
56-44.4269-	109.6564-	2-12-	0-	W01073			46060	1052	20540	-37	-2	21.6	4.6	1496	-2	-1	4.3	5320	216	-1.9	-41	0.284
56-44.4275-	109.6606-	2-12-	0-	W01074			44630	1057	19610	-43	-2	31.5	5.8	1380	-1	-1	5.5	5230	266	-2.0	-109	0.207
56-44.4053-	109.6725-	2-12-	0-	W01075			21110	582	21140	-40	-3	14.4	10.5	-302	-2	-1	21.6	3998	81	-2.9	124	0.146
56-44.4042-	109.6694-	2-12-	0-	W01076			50790	1126	16700	-40	-2	39.3	4.7	803	-2	-1	3.8	7207	415	-2.7	-51	0.237
56-44.3833-	109.6785-	2-12-	0-	W01077			24980	618	22030	42	-2	11.4	9.7	699	-1	-1	20.2	4780	111	3.7	63	0.185
56-44.3828-	109.6761-	2-12-	0-	W01078			22830	532	21520	-37	-2	16.5	11.7	763	-1	-1	29.5	6185	136	4.9	122	0.126
56-44.4664-	109.7003-	2-12-	0-	W01079			37620	743	20140	-25	-2	19.2	8.0	1006	-1	-1	9.7	5443	156	-1.6	97	0.258
56-44.5081-	109.6536-	2-12-	0-	W01080			57090	807	22230	-35	-2	20.7	5.0	1147	-1	-1	4.5	4689	180	2.2	186	0.298
56-44.5261-	109.6597-	2-12-	0-	W01081			47670	717	22420	-32	-2	14.5	5.0	945	-1	-1	7.1	3849	142	2.4	-41	0.242
56-44.5258-	109.6631-	2-12-	0-	W01082			34360	578	20410	-33	-2	15.9	6.2	943	-1	-1	11.5	4925	141	2.2	133	0.198
56-44.5392-	109.6744-	2-12-	0-	W01083			58330	1161	16630	-48	-4	33.2	4.8	832	-2	-1	3.6	9355	508	-2.7		0.281
56-44.5411-	109.6706-	2-12-	0-	W01084			54090	914	20220	-34	-2	20.2	4.3	1214	-1	-1	5.1	4092	183	-1.5	122	0.249
56-44.4258-	109.7606-	2-12-	0-	W01085			19770	556	21570	67	-2	9.7	8.0	751	-1	-1	15.7	4391	96	5.0	112	0.218
56-44.4256-	109.7586-	2-12-	0-	W01086			72080	863	20670	-45	-3	33.2	6.3	1024	-2	-1	5.6	4578	196	-2.1	101	0.209
56-44.4558-	109.7717-	2-12-	0-	W01087			44430	988	21450	-36	-4	26.9	8.7	1142	-1	-1	2.8	5529	251	-2.4	-43	0.282
56-44.4278-	109.7875-	2-12-	0-	W01088			41000	633	21930	-33	-2	14.6	4.9	953	-1	-1	8.3	4031	129	-1.4	124	0.216
56-44.4169-	109.7939-	2-12-	0-	W01089			43420	643	22500	-31	-2	13.5	5.1	941	-1	-1	7.4	3715	120	-1.5	72	0.236
56-44.4514-	109.7944-	2-12-	0-	W01090			32800	542	17230	-36	-2	13.7	8.3	558	-1	-1	16.5	4939	102	-1.6	126	0.163
56-44.4497-	109.8333-	2-12-	0-	W01091			49460	996	21710	-49	-4	27.5	5.6	1019	-2	-1	6.1	6686	258	-2.8	152	0.197
56-44.4197-	109.8536-	2-12-	0-	W01092			46120	801	22330	-33	-2	19.7	4.4	1277	-1	-1	4.9	4311	180	-1.3	195	0.245
56-44.3953-	109.8603-	2-12-	0-	W01093			51430	913	23390	-33	-2	19.2	-5.4	1076	-1	-1	4.2	4328	176	-1.7		0.286
56-44.3942-	109.8639-	2-12-	0-	W01094			53360	1045	20930	-44	-3	38.0	5.4	1279	-2	-1	-1.5	6597	311	4.3	107	
56-44.3936-	109.8617-	2-12-	0-	W01095			55430	952	21390	-27	-3	23.2	6.9	1148	-1	-1	5.7	4913	193	-1.8	109	0.211
56-44.1886-	109.5367-	2-12-	0-	W01096			44570	903	20710	-34	-2	17.2	4.7	1154	-1	-1	6.7	4413	172	-1.4	146	0.239
56-44.1333-	109.6139-	2-12-	0-	W01097			45230	991	20170	-36	-2	19.5	5.1	1026	-1	-1	7.9	5116	222	-1.7	-44	0.203
56-44.0339-	109.5928-	2-12-	0-	W01098			33720	704	22350	-35	-2	20.7	5.7	1132	-1	-1	7.7	3953	150	-1.8	76	0.208
56-44.0322-	109.5933-	2-12-	0-	W01099			42980	693	21990	-34	-3	15.8	5.1	1141	-1	1	6.8	4391	150	2.5	92	0.279
56-44.0336-	109.5958-	2-12-	0-	W01100			40600	713	22420	-36	-2	15.8	4.3	1032	-2	-1	6.2	4562	146	-1.6	124	0.258
56-44.0069-	109.5697-	2-12-	0-	W01101			82910	910	20550	-39	-2	27.4	4.8	740	-2	-1	4.4	4942	210	-2.0	-48	0.250
56-44.0058-	109.5711-	2-12-	0-	W01102			56420	821	22130	-44	-3	29.8	5.8	1110	-2	-1	5.6	5738	193	-2.2	129	0.214
56-44.1281-	109.6547-	2-12-	0-	W01103			47600	976	19190	-37	-3	19.1	5.5	1629	-1	-1	5.9	5456	204	-2.3	-42	0.305
56-44.1261-	109.6556-	2-12-	0-	W01104			35840	636	11870	65	-1	8.6	5.3	627	-1	-1	8.9	3128	67	2.1	115	0.292
56-44.1208-	109.6781-	2-12-	0-	W01105			51450	981	19800	-35	-2	19.6	4.9	1115	-1	-1	6.4	5308	246	-1.7	-44	0.266
56-44.1172-	109.6814-	2-12-	0-	W01106			41220	907	20240	-40	-2	20.4	6.0	1360	-1	-1	7.2	4399	157	-1.8	94	0.236
56-44.1169-	109.6792-	2-12-	0-	W01107			50520	993	18790	-45	-4	24.9	6.0	1036	-1	-1	7.0	5763	252	-2.9	146	0.243
56-44.1086-	109.7175-	2-12-	0-	W01108			51850	696	22570	-35	-2	17.6	4.9	912	-1	-1	6.4	4054	161	-1.6	137	0.234
56-44.1103-	109.7189-	2-12-	0-	W01109			35740	549	18550	-28	-2	13.6	6.7	-316	-1	-1	12.1	3588	165	3.2	-84	0.215
56-44.1114-	109.7175-	2-12-	0-	W01110			29530	553	19140	67	-2	13.9	8.6	592	-1	-1	16.7	3971	104	3.5	66	0.162
56-44.1031-	109.6361-	2-12-	0-	W01111			48510	985	19350	-28	-3	20.5	5.3	1379	-1	-1	6.5	5300	224	-1.7	148	0.262
56-44.0978-	109.6429-	2-12-	0-	W01112			51080	1050	19240	-40	-2	21.3	4.4	1237	-2	-1	7.3	5887	274	-1.7	142	0.247
56-44.0772-	109.6453-	2-12-	0-	W01113			48100	919	20920	-37	-2	19.0	5.7	1353	-1	-1	7.2	5392	204	-1.9	-42	0.236
56-44.0686-	109.6492-	2-12-	0-	W01114			18640	546	18190	62	-2	10.6	8.5	-291	-2	-1	17.0	4259	68	2.9	83	0.176
56-44.0267-	109.6708-	2-12-	0-	W01115			23410	591	19640	55	-2	9.9	8.0	-293	-1	-1	15.3	4580	77	2.9	122	0.176
56-44.0281-	109.6775-	2-12-	0-	W01116			51710	932	21790	-35	-2	23.8	5.2	978	-1	-1	4.8	5209	209	-1.7	158	0.250
56-44.0264-	109.6769-	2-12-	0-	W01117			20120	532	22580	-29	-2	9.5	7.8	524	-1	-1	15.8	5237	97	-1.9	44	0.209

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	44.4503-	109.5742-	2-	12-		0-W01119-	07/04/77-	20-	19-	10.0-	-	-	5.8-	60-		0-	3-	4-	4-	6-	3-	3-	1-	2-	2-	3-	3-	3-	-1-	-	-	-	-	1.19
56-	44.4703-	109.5778-	2-	12-		0-W01119-	07/04/77-	21-	19-	9.0-	-	-	5.6-	70-		0-	3-	6-	3-	6-	3-	2-	1-	2-	3-	2-	2-	2-	-1-	-	-	-	-	1.94
56-	44.4706-	109.5756-	2-	12-		0-W01120-	07/04/77-	21-	19-	9.0-	-	-	6.0-	70-		0-	3-	6-	4-	6-	3-	2-	1-	2-	3-	3-	3-	2-	-1-	-	-	-	-	3.12
56-	44.4386-	109.5686-	2-	12-		0-W01121-	07/04/77-	22-	16-	9.0-	-	-	6.1-	110-		0-	3-	6-	4-	6-	2-	2-	1-	2-	3-	3-	3-	2-	-1-	-	-	-	-	2.80
56-	44.5022-	109.5689-	2-	12-		0-W01122-	07/04/77-	22-	16-	9.0-	-	-	6.5-	150-		0-	3-	6-	4-	6-	2-	2-	1-	2-	3-	3-	3-	2-	-1-	-	-	-	-	1.75
56-	44.5022-	109.5722-	2-	12-		0-W01123-	07/04/77-	22-	16-	9.0-	-	-	5.7-	55-		0-	3-	6-	4-	6-	2-	2-	1-	2-	3-	3-	3-	2-	-1-	-	-	-	-	0.81
56-	44.2600-	109.5403-	2-	12-		0-W01124-	07/05/77-	9-	13-	11.0-	-	-	5.9-	80-		0-	2-	6-	4-	6-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.78
56-	44.2508-	109.5678-	2-	12-		0-W01125-	07/05/77-	10-	16-	10.0-	-	-	6.0-	70-		0-	2-	6-	4-	6-	3-	3-	1-	2-	1-	3-	2-	2-	-1-	-	-	-	-	1.66
56-	44.2525-	109.5683-	2-	12-		0-W01126-	07/05/77-	10-	16-	10.0-	-	-	6.0-	70-		1-	2-	6-	4-	6-	3-	3-	1-	2-	1-	3-	2-	2-	-1-	-	-	-	-	1.63
56-	44.2744-	109.6061-	2-	12-		0-W01127-	07/05/77-	11-	16-	10.0-	-	-	5.8-	55-		0-	4-	6-	4-	6-	3-	3-	2-	2-	2-	2-	3-	2-	-1-	-	-	-	-	1.80
56-	44.2753-	109.6200-	2-	12-		0-W01128-	07/05/77-	11-	19-	11.0-	-	-	5.6-	70-		0-	4-	6-	4-	6-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	1.33
56-	44.2739-	109.6197-	2-	12-		0-W01129-	07/05/77-	11-	19-	11.0-	-	-	5.5-	75-		0-	4-	6-	4-	6-	3-	3-	1-	2-	3-	3-	3-	2-	-1-	-	-	-	-	0.95
56-	44.2439-	109.5964-	2-	12-		0-W01130-	07/05/77-	12-	21-	9.0-	-	-	6.2-	185-		0-	4-	6-	3-	6-	4-	2-	2-	2-	1-	3-	4-	2-	-1-	-	-	-	-	3.14
56-	44.2392-	109.6203-	2-	12-		0-W01131-	07/05/77-	12-	21-	10.0-	-	-	5.8-	55-		0-	2-	6-	4-	6-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.91
56-	44.2356-	109.6356-	2-	12-		0-W01132-	07/05/77-	13-	22-	10.0-	-	-	5.9-	55-		0-	2-	6-	3-	6-	3-	4-	2-	2-	3-	4-	4-	2-	-1-	-	-	-	-	1.16
56-	44.2411-	109.6378-	2-	12-		0-W01133-	07/05/77-	13-	22-	11.0-	-	-	5.9-	85-		0-	2-	6-	4-	6-	3-	3-	1-	2-	3-	3-	2-	2-	-1-	-	-	-	-	3.38
56-	44.2381-	109.6608-	2-	12-		0-W01134-	07/05/77-	14-	24-	12.0-	-	-	5.8-	60-		0-	2-	6-	4-	6-	3-	3-	1-	2-	3-	4-	3-	2-	-1-	-	-	-	-	3.18
56-	44.2350-	109.6803-	2-	12-		0-W01135-	07/05/77-	14-	20-	12.0-	-	-	5.8-	55-		0-	3-	6-	4-	6-	4-	3-	1-	2-	4-	3-	3-	2-	-1-	-	-	-	-	0.91
56-	44.2378-	109.6831-	2-	12-		0-W01136-	07/05/77-	14-	20-	12.0-	0-	-	5.8-	55-		0-	3-	6-	4-	6-	2-	3-	1-	1-	3-	3-	4-	2-	-1-	-	-	-	-	2.30
56-	44.2369-	109.6847-	2-	12-		0-W01137-	07/05/77-	14-	20-	12.0-	-	-	5.9-	60-		1-	3-	6-	3-	6-	3-	3-	2-	3-	4-	2-	3-	2-	-1-	-	-	-	-	1.68
56-	44.2203-	109.7017-	2-	12-		0-W01138-	07/05/77-	15-	19-	14.0-	-	-	6.2-	175-		0-	3-	6-	2-	6-	3-	2-	2-	2-	3-	4-	4-	2-	-1-	-	-	-	-	2.96
56-	44.2067-	109.7231-	2-	12-		0-W01139-	07/05/77-	15-	23-	14.0-	-	-	6.2-	180-		0-	3-	6-	2-	6-	4-	3-	1-	2-	1-	2-	5-	3-	-1-	-	-	-	-	3.50
56-	44.1939-	109.7400-	2-	12-		0-W01140-	07/05/77-	15-	20-	12.0-	-	-	6.3-	190-		0-	3-	6-	4-	6-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	2.79
56-	44.1958-	109.7425-	2-	12-		0-W01141-	07/05/77-	15-	20-	12.0-	-	-	6.3-	180-		0-	3-	6-	2-	6-	3-	2-	1-	2-	3-	2-	4-	3-	-1-	-	-	-	-	0.98
56-	44.2306-	109.7511-	2-	12-		0-W01142-	07/05/77-	16-	18-	11.0-	-	-	5.9-	60-		0-	3-	6-	2-	6-	4-	3-	1-	1-	3-	3-	4-	3-	-1-	-	-	-	-	1.00
56-	44.2275-	109.7506-	2-	12-		0-W01143-	07/05/77-	16-	18-	11.0-	-	-	5.9-	50-		0-	3-	6-	4-	6-	2-	3-	1-	1-	1-	3-	2-	2-	-1-	-	-	-	-	2.10
56-	44.2297-	109.7797-	2-	12-		0-W01144-	07/05/77-	16-	10-	10.0-	-	-	5.9-	140-		0-	3-	6-	3-	6-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	2.30
56-	44.0378-	109.6383-	2-	12-		0-W01145-	07/06/77-	20-	20-	11.0-	-	-	5.7-	100-		1-	2-	6-	4-	6-	2-	2-	1-	2-	1-	2-	3-	1-	-1-	-	-	-	-	1.30
56-	44.0389-	109.6461-	2-	12-		0-W01146-	07/06/77-	20-	16-	11.0-	-	-	5.7-	130-		1-	2-	6-	4-	6-	2-	3-	1-	2-	3-	2-	3-	1-	-1-	-	-	-	-	4.70
56-	44.0294-	109.6483-	2-	12-		0-W01147-	07/06/77-	20-	16-	11.0-	-	-	5.7-	120-		1-	2-	6-	4-	6-	2-	3-	1-	2-	3-	2-	3-	1-	-1-	-	-	-	-	2.00
56-	44.3756-	109.8681-	2-	12-		0-W01148-	07/04/77-	15-	24-	11.0-	-	-	6.0-	70-		0-	2-	7-	2-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	3.30
56-	44.4153-	109.9097-	2-	12-		0-W01149-	07/04/77-	17-	22-	11.0-	-	-	5.9-	80-		0-	2-	7-	2-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.30
56-	44.4631-	109.9011-	2-	12-		0-W01150-	07/04/77-	18-	22-	11.0-	-	-	6.0-	75-		0-	2-	7-	3-	4-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	2.80
56-	44.4478-	109.9222-	2-	12-		0-W01151-	07/04/77-	18-	22-	11.0-	-	-	6.0-	65-		0-	2-	7-	2-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	3.10
56-	44.4050-	109.9653-	2-	12-		0-W01152-	07/04/77-	18-	22-	11.0-	-	-	6.2-	125-		0-	2-	7-	2-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	6.20
56-	44.4042-	109.9639-	2-	12-		0-W01153-	07/04/77-	18-	22-	11.0-	-	-	6.2-	130-		0-	2-	7-	2-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	2.30
56-	44.4050-	109.9833-	2-	12-		0-W01154-	07/04/77-	18-	22-	11.0-	-	-	5.9-	80-		0-	2-	7-	3-	4-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.30
56-	44.4042-	109.9825-	2-	12-		0-W01155-	07/04/77-	18-	22-	11.0-	-	-	6.2-	80-		0-	2-	7-	2-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	5.70
56-	44.3942-	109.9669-	2-	12-		0-W01156-	07/04/77-	19-	21-	10.0-	-	-	6.3-	85-		0-	2-	7-	3-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.10
56-	44.3906-	109.9714-	2-	12-		0-W01157-	07/04/77-	19-	21-	10.0-	-	-	6.2-	190-		0-	2-	7-	2-	7-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.10
56-	44.3903-	109.9694-	2-	12-		0-W01158-	07/04/77-	19-	21-	10.0-	-	-	5.9-	60-		0-	2-	7-	3-	4-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.60
56-	44.3742-	109.9969-	2-	12-		0-W01159-	07/04/77-	19-	21-	10.0-	-	-	5.7-	75-		0-	2-	1-	3-	1-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	3.10
56-	44.3739-	109.9939-	2-	12-		0-W01160-	07/04/77-	19-	21-	10.0-	-	-	5.7-	75-		0-	2-	1-	3-	1-	3-	3-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.70
56-	44.3650-	109.5178-	2-	12-		0-W01161-	07/05/77-	7-	18-	8.0-	-	-	5.7-	100-		1-	1-	6-	3-	6-	3-	-2-	1-	3-	3-	3-	2-	-1-	-	-	-	-	-	1.90
56-	44.3622-	109.5186-	2-	12-		0-W01162-	07/05/77-	7-	18-	8.0-	-	-	5.7-	100-		1-	2-	6-	3-	6-	3-	2-	1-	2-	3-	3-	2-	2-	-1-	-	-	-	-	1.20
56-	44.3544-	109.5397-	2-	12-		0-W01163-	07/05/77-	9-	16-	9.0-	-	-	5.5-	90-		1-	2-	6-	2-	6-	3-	2-	1-	2-	1-	3-	3-	2-	-1-	-	-	-	-	1.40
56-	44.2911-	109.5375-	2-	12-		0-W01164-	07/05/77-	11-	14-	10.0-	-	-	5.7-	70-		1-	2-	6-	1-	6-	3-	2-	1-	1-	3-	2-	4-	2-	-1-	-	-	-	-	1.20
56-	44.2956-	109.5375-	2-	12-		0-W01165-	07/05/77-	11-	14-	10.0-	-	-	5.7-	150-		1-	2-	6-	2-	6-	2-	2-	1-	2-	1-	2-	3-	2-	-1-	-	-	-	-	1.60
56-	44.2967-	109.5361-	2-	12-		0-W01166-	07/05/77-	11-	14-	10.0-	-	-	5.7-	150-		1-	2-	6-	3-	6-	3-	3-	1-	2-	2-	2-	2-	2-	-1-	-	-	-	-	1.30
56-	44.3108-	109.5558-	2-	12-		0-W01167-	07/05/77-	12-	16-	10.0-	-	-	5.7-	60-		1-	2-	4-	4-	6-	3-	3-	1-	2-	3-	4-	3-	2-	-1-	-	-	-	-	1.50
56-	44.3128-	109.5519-	2-	12-		0-W01168-	07/05/77-	12-	16-	10.0-	-	-	5.7-	70-		1-	2-	6-	4-	6-	2-	2-	1-	2-	3-	3-	3-	2-	-1-	-	-	-	-	1.10

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.4503-109.5742-2-12-						0-W01118										2	15
56-44.4703-109.5778-2-12-						0-W01119	-5	-5	-5	21	-20	58	13	-10	-15	2	17
56-44.4706-109.5756-2-12-						0-W01120	-5	-5	-5	17	-20	-15	10	-10	-15	2	28
56-44.4886-109.5686-2-12-						0-W01121	-5	-5	-5	24	-20	19	13	-10	-15	2	24
56-44.5022-109.5689-2-12-						0-W01122	-5	-5	-5	39	-20	31	9	-10	-15	3	36
56-44.5022-109.5722-2-12-						0-W01123	-5	-5	-5	35	-20	31	6	-10	-15	2	10
56-44.2600-109.5403-2-12-						0-W01124	-5	-5	-5	29	-20	33	11	-10	-15	2	16
56-44.2508-109.5678-2-12-						0-W01125	-5	-5	-5	33	-20	65	11	-10	-15	1	19
56-44.2525-109.5683-2-12-						0-W01126	-5	-5	-5	31	-20	32	5	-10	-15	2	14
56-44.2744-109.6061-2-12-						0-W01127	-5	-5	-5	30	-20	38	11	-10	-15	2	19
56-44.2753-109.6200-2-12-						0-W01128	-5	-5	-5	47	-20	54	8	-10	-15	2	16
56-44.2739-109.6197-2-12-						0-W01129	-5	-5	-5	29	-20	56	-5	-10	-15	2	15
56-44.2439-109.5964-2-12-						0-W01130	-5	-5	-5	27	-20	-15	12	-10	-15	2	32
56-44.2392-109.6203-2-12-						0-W01131	-5	-5	-5	24	-20	39	10	-10	-15	2	14
56-44.2356-109.6356-2-12-						0-W01132	-5	-5	-5	49	-20	-15	10	-10	-15	2	15
56-44.2411-109.6378-2-12-						0-W01133	-5	-5	-5	13	-20	21	15	-10	-15	2	24
56-44.2381-109.6608-2-12-						0-W01134	-5	-5	-5	28	-20	-15	13	-10	-15	2	33
56-44.2350-109.6803-2-12-						0-W01135										2	12
56-44.2378-109.6831-2-12-						0-W01136	-5	-5	-5	37	-20	29	6	-10	-15	3	20
56-44.2369-109.6847-2-12-						0-W01137	-5	-5	-5	26	-20	30	10	-10	-15	2	17
56-44.2203-109.7017-2-12-						0-W01138	-5	-5	-5	31	-20	47	11	-10	-15	2	19
56-44.2067-109.7231-2-12-						0-W01139	-5	-5	-5	15	-20	22	15	-10	-15	2	22
56-44.1939-109.7400-2-12-						0-W01140	-5	-5	-5	29	-20	35	-5	-10	-15	2	23
56-44.1958-109.7425-2-12-						0-W01141	-5	-5	-5	58	-20	54	5	-10	-15	2	12
56-44.2306-109.7511-2-12-						0-W01142	-5	5	5	64	-20	71	-5	-10	-15	4	12
56-44.2275-109.7506-2-12-						0-W01143	-5	-5	-5	32	-20	-15	13	-10	-15	2	21
56-44.2297-109.7797-2-12-						0-W01144	-5	-5	-5	23	-20	17	6	-10	-15	2	22
56-44.0378-109.6383-2-12-						0-W01145	-5	-5	-5	31	-20	75	16	-10	-15	2	14
56-44.0389-109.6461-2-12-						0-W01146	-5	-5	-5	20	-20	25	33	-10	-15	1	15
56-44.0294-109.6483-2-12-						0-W01147	-5	-5	-5	27	-20	42	7	-10	-15	2	25
56-44.3756-109.8681-2-12-						0-W01148										2	33
56-44.4153-109.9097-2-12-						0-W01149	-5	-5	-5	65	-20	44	10	-10	-15	2	17
56-44.4531-109.9011-2-12-						0-W01150	-5	-5	-5	29	-20	17	11	-10	-15	2	16
56-44.4478-109.9222-2-12-						0-W01151	-5	-5	-5	16	-20	19	5	-10	-15	2	37
56-44.4050-109.9553-2-12-						0-W01152	-5	-5	-5	15	-20	15	20	-10	-15	2	19
56-44.4042-109.9639-2-12-						0-W01153	-5	-5	-5	21	-20	31	12	-10	-15	2	22
56-44.4050-109.9833-2-12-						0-W01154	-5	-5	-5	64	-20	36	9	-10	-15	2	17
56-44.4042-109.9825-2-12-						0-W01155										2	32
56-44.3942-109.9669-2-12-						0-W01156	-5	-5	-5	52	-20	20	6	-10	-15	2	11
56-44.3936-109.9714-2-12-						0-W01157	-5	-5	-5	57	-20	57	9	-10	-15	2	9
56-44.3903-109.9694-2-12-						0-W01158										2	26
56-44.3742-109.9969-2-12-						0-W01159	-5	-5	-5	19	-20	16	16	-10	-15	2	32
56-44.3739-109.9939-2-12-						0-W01160	-5	-5	-5	24	-20	50	11	-10	-15	2	15
56-44.3650-109.5178-2-12-						0-W01161	-5	-5	-5	23	-20	45	25	-10	-15	2	22
56-44.3622-109.5186-2-12-						0-W01162	-5	-5	-5	26	-20	82	14	-10	-15	2	18
56-44.3544-109.5397-2-12-						0-W01163	-5	-5	-5	27	-20	62	14	-10	-15	2	18
56-44.2911-109.5375-2-12-						0-W01164	-5	-5	-5	42	-20	102	5	-10	-15	2	12
56-44.2956-109.5375-2-12-						0-W01165	-5	-5	-5	34	-20	43	15	-10	-15	2	17
56-44.2967-109.5361-2-12-						0-W01166	-5	-5	-5	35	-20	105	17	-10	-15	2	19
56-44.3108-109.5558-2-12-						0-W01167	-5	-5	-5	36	-20	105	6	-10	-15	1	20
56-44.3128-109.5519-2-12-						0-W01168	-5	-5	-5	37	-20	145	11	-10	-15	2	21

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

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.4503-	109.5742-	2-	12-	0-	W01118	78720	-0.29	1019	65230	47	-254	35.6	341	-7.4	-3	-0.9	80580	-3.8	-8900	-15	-0.4
56-	44.4703-	109.5778-	2-	12-	0-	W01119	78950	-0.13	1132	41260	82	-126	22.6	157	-2.0	3	1.8	46470	4.2	14240	43	0.2
56-	44.4706-	109.5756-	2-	12-	0-	W01120	70630	-0.06	819	18690	93	-122	9.6	80	-1.6	5	1.9	28300	12.1	18130	50	0.4
56-	44.4886-	109.5686-	2-	12-	0-	W01121	77410	-0.08	1142	37660	106	-119	16.1	136	-2.1	4	2.1	39540	13.7	14930	41	0.3
56-	44.5022-	109.5589-	2-	12-	0-	W01122	67170	-0.12	941	51270	63	-108	29.9	347	-3.1	3	1.2	75220	5.0	11870	41	0.2
56-	44.5022-	109.5722-	2-	12-	0-	W01123	80440	-0.17	1032	56370	59	-133	30.3	191	-2.8	3	1.8	78340	3.2	11340	30	-0.2
56-	44.2600-	109.5403-	2-	12-	0-	W01124	82780	-0.07	1308	43510	78	-132	19.6	154	-1.8	3	1.1	40160	4.8	12040	38	0.3
56-	44.2508-	109.5678-	2-	12-	0-	W01125	81980	-0.09	1352	46920	73	-130	21.0	170	-2.2	3	1.7	44880	4.3	17140	35	0.2
56-	44.2525-	109.5683-	2-	12-	0-	W01126	80420	-0.11	1430	47800	83	-127	26.8	252	-2.7	3	1.4	61790	4.2	13890	46	-0.1
56-	44.2744-	109.6061-	2-	12-	0-	W01127	79290	-0.09	1092	43780	76	-124	21.4	175	-1.6	2	2.0	47710	5.0	11230	38	0.4
56-	44.2753-	109.6200-	2-	12-	0-	W01128	83830	-0.08	1404	48370	57	-140	25.5	153	-2.1	3	1.0	50770	3.4	15040	30	0.2
56-	44.2739-	109.6197-	2-	12-	0-	W01129	65600	-0.10	815	54720	59	-115	34.3	413	-2.5	2	1.7	81030	2.2	9144	25	0.1
56-	44.2439-	109.5964-	2-	12-	0-	W01130	69780	-0.09	818	17900	124	-109	14.1	102	5.3	5	2.2	38120	12.8	19350	54	0.4
56-	44.2392-	109.6203-	2-	12-	0-	W01131	81800	-0.12	1304	36980	89	-147	18.5	192	-2.0	3	1.4	38870	4.2	13730	52	0.3
56-	44.2356-	109.6356-	2-	12-	0-	W01132	81580	-0.09	1095	53940	54	-132	28.5	149	-2.3	3	1.2	68120	2.6	16010	24	0.2
56-	44.2411-	109.6378-	2-	12-	0-	W01133	72820	-0.07	956	27500	120	-116	10.0	78	-1.8	6	2.0	30720	20.7	17220	49	0.4
56-	44.2381-	109.6608-	2-	12-	0-	W01134	60570	-0.08	554	34310	87	-89	10.5	88	4.1	5	1.6	33310	11.2	19830	43	0.4
56-	44.2350-	109.6803-	2-	12-	0-	W01135	67660	-0.29	898	59950	-12	-208	30.3	413	-4.8	3	1.2	80050	-2.5	-7288	-18	-0.3
56-	44.2378-	109.6831-	2-	12-	0-	W01136	72740	-0.08	1053	43530	74	-131	25.5	304	3.7	4	1.2	67430	8.8	16890	40	0.2
56-	44.2369-	109.6847-	2-	12-	0-	W01137	82060	-0.08	1394	49290	78	-124	16.8	127	-2.0	3	1.6	39780	3.7	15130	36	0.4
56-	44.2203-	109.7017-	2-	12-	0-	W01138	59960	-0.10	1177	45330	135	-109	31.8	129	-2.6	5	2.7	92810	16.0	9405	69	0.5
56-	44.2067-	109.7231-	2-	12-	0-	W01139	71430	-0.13	923	22700	138	-121	13.9	109	2.5	5	2.6	41420	27.8	15360	73	0.6
56-	44.1939-	109.7400-	2-	12-	0-	W01140	72360	-0.08	969	32200	79	-128	17.6	135	2.5	5	1.3	43860	10.4	13090	39	0.3
56-	44.1958-	109.7425-	2-	12-	0-	W01141	64790		853	56370		-117				2				10720		
56-	44.2306-	109.7511-	2-	12-	0-	W01142	59510	-0.30	646	51480	44	-113	44.5	521	-2.3	2	1.4	124200	2.4	9973	-24	-0.2
56-	44.2275-	109.7506-	2-	12-	0-	W01143	58370	-0.25	745	33560	88	-95	25.0	199	2.9	3	2.0	66350	9.9	13160	48	0.4
56-	44.2297-	109.7797-	2-	12-	0-	W01144	59640	-0.21	943	41250	93	-93	21.9	195	-1.6	3	1.9	53330	10.8	18990	-25	0.5
56-	44.0378-	109.6383-	2-	12-	0-	W01145	72320	-0.21	1071	46060	70	-110	23.9	329	-1.6	-1	1.2	50610	3.6	9195	-23	0.2
56-	44.0389-	109.6461-	2-	12-	0-	W01146	70010	-0.22	642	29640	188	261	10.4	75	-1.5	7	3.0	40360	34.7	11110	100	0.5
56-	44.0294-	109.6483-	2-	12-	0-	W01147	71550	-0.23	985	36130	99	-93	22.2	189	-1.7	3	2.1	49940	8.3	13680	67	0.5
56-	44.3756-	109.8681-	2-	12-	0-	W01148	57250	-0.18	597	25890	58	-95	5.6	44	2.8	6	1.0	16940	11.5	21750	-26	0.4
56-	44.4153-	109.9097-	2-	12-	0-	W01149	79790	-0.23	1341	46550	58	-114	26.1	96	-1.7	3	1.2	53300	2.3	14870	-27	-0.1
56-	44.4631-	109.9011-	2-	12-	0-	W01150	72050	-0.23	812	31840	129	-111	16.5	141	-1.6	4	1.9	53010	20.4	12570	82	0.3
56-	44.4478-	109.9222-	2-	12-	0-	W01151	71920	-0.22	1090	28360	115	-93	18.3	110	2.7	4	2.4	44930	16.3	15690	-22	0.5
56-	44.4050-	109.9653-	2-	12-	0-	W01152	68320	-0.24	586	25470	210	264	11.2	70	-1.7	9	3.3	57260	48.9	13680	107	0.9
56-	44.4042-	109.9539-	2-	12-	0-	W01153	71440	-0.17	1039	25720	85	-102	14.5	131	-1.3	4	1.7	33020	9.3	13280	45	0.3
56-	44.4050-	109.9833-	2-	12-	0-	W01154	79300	-0.26	1410	50820	70	-116	27.1	102	2.6	-1	1.9	58340	2.8	18330	43	0.2
56-	44.4042-	109.9825-	2-	12-	0-	W01155	76910	-0.29	575	25370	234	320	14.1	81	-2.1	10	4.1	70390	54.8	15020	113	0.8
56-	44.3942-	109.9669-	2-	12-	0-	W01156	66450	-0.25	872	47120	63	-93	31.6	155	-1.9	2	1.7	76160	2.2	12280	-29	-0.1
56-	44.3906-	109.9714-	2-	12-	0-	W01157	75160	-0.24	1048	49130	51	-113	29.5	188	-1.9	3	1.8	64590	2.1	14670	-29	0.2
56-	44.3903-	109.9694-	2-	12-	0-	W01158	76210	-0.24	1093	43120	94	-115	23.1	219	-1.7	3	1.7	50590	4.5	12350	-21	0.3
56-	44.3742-	109.9969-	2-	12-	0-	W01159	68510	-0.19	695	37070	83	-84	13.6	66	5.0	5	1.5	32040	11.1	23700	52	0.4
56-	44.3739-	109.9939-	2-	12-	0-	W01160	77080	-0.08	1229	45630	83	-119	24.9	260	-2.1	3	1.7	55610	4.6	11990	38	0.2
56-	44.3650-	109.5178-	2-	12-	0-	W01161	77630	-0.21	1246	39710	78	-111	22.2	203	-1.6	3	1.8	47630	4.0	12130	-25	-0.1
56-	44.3622-	109.5186-	2-	12-	0-	W01162	71670	-0.23	990	53660	71	-114	26.0	374	-1.7	2	1.7	54840	3.2	11180	-27	-0.1
56-	44.3544-	109.5397-	2-	12-	0-	W01163	89840	-0.17	1345	47030	48	-109	10.6	117	-1.2	2	1.1	23440	1.6	11760	-14	-0.1
56-	44.2911-	109.5375-	2-	12-	0-	W01164	71380	-0.28	993	50560	75	-100	37.8	498	-2.1	-1	1.9	71220	3.3	10280	-26	0.5
56-	44.2956-	109.5375-	2-	12-	0-	W01165	76460	-0.21	1239	43690	78	-112	24.1	236	-1.6	-1	1.7	54080	4.4	16270	-23	-0.1
56-	44.2967-	109.5361-	2-	12-	0-	W01166	72580	-0.23	971	49410	69	-115	27.9	382	-1.7	3	1.6	62450	4.0	11840	44	-0.1
56-	44.3108-	109.5558-	2-	12-	0-	W01167	86460	-0.24	1265	49940	93	-114	22.5	327	-1.7	2	1.6	46110	3.1	14840	37	0.2
56-	44.3128-	109.5519-	2-	12-	0-	W01168	68230	-0.30	804	51080	73	-104	43.0	598	-2.3	3	1.8	80950	4.4	10500	-33	-0.2

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.4503-109.5742-2-12-			0	W	01118		69720	1193	19320	-114	-7	32.2	-1.8	1533	-5	-3	-4.4	7146	449	-5.7	420	
56-44.4703-109.5778-2-12-			0	W	01119		48140	555	20410	-33	-3	15.4	5.0	807	-1	-1	7.9	5108	138	2.7	-38	0.246
56-44.4706-109.5756-2-12-			0	W	01120		18620	565	18140	80	-1	9.0	7.8	530	-1	-1	15.3	4482	68	3.5	117	0.204
56-44.4886-109.5686-2-12-			0	W	01121		33160	691	20270	54	-2	15.0	7.5	632	-1	-1	14.0	5017	139	2.6	80	0.200
56-44.5022-109.5589-2-12-			0	W	01122		51020	777	14750	-49	-3	27.8	5.3	802	-2	-1	6.5	7066	295	-2.3	220	0.271
56-44.5022-109.5722-2-12-			0	W	01123		43920	968	21870	-44	-4	34.1	5.1	1241	-2	-1	4.2	6108	244	-2.7	123	0.193
56-44.2600-109.5403-2-12-			0	W	01124		41630	629	23290	-30	-2	13.9	5.0	1293	-1	-1	8.3	4807	138	1.9	101	0.214
56-44.2508-109.5578-2-12-			0	W	01125		45240	728	22410	-34	-3	14.6	4.9	1702	-1	-1	7.2	4682	149	-2.1	-41	0.231
56-44.2525-109.5683-2-12-			0	W	01126		45190	789	21710	-43	-3	21.5	6.0	1508	-2	-1	9.5	4970	172	-2.1	101	0.172
56-44.2744-109.6061-2-12-			0	W	01127		45140	729	21020	-25	-2	19.8	8.5	1151	-1	-1	6.8	4854	166	-1.4	145	0.265
56-44.2753-109.6200-2-12-			0	W	01128		57060	934	22270	-35	-2	19.6	4.7	1295	-1	-1	5.0	5109	160	-1.5	-23	0.266
56-44.2739-109.6197-2-12-			0	W	01129		55570	1132	17350	-36	-2	34.0	5.3	823	-2	-1	3.5	6962	369	-1.9	-44	0.271
56-44.2439-109.5964-2-12-			0	W	01130		17100	505	18090	70	-2	11.7	8.6	609	-1	-1	19.7	4705	70	4.2	138	0.159
56-44.2392-109.6203-2-12-			0	W	01131		35120	574	25400	-37	-3	13.2	5.2	1078	-1	-1	8.5	4558	123	-2.0	140	0.225
56-44.2356-109.6356-2-12-			0	W	01132		47030	1016	18820	-36	-2	25.2	4.8	957	-2	-1	4.2	5539	264	-1.7	116	0.276
56-44.2411-109.6374-2-12-			0	W	01133		19690	546	22290	-26	-2	9.4	8.7	595	-1	-1	18.4	4465	84	3.0	-33	0.184
56-44.2381-109.6608-2-12-			0	W	01134		24530	530	11540	-32	-2	10.6	7.1	-280	-1	-1	14.7	3403	72	3.9	117	0.216
56-44.2350-109.6303-2-12-			0	W	01135		65330	1310	15410	-76	-7	29.7	3.3	1429	-3	-2	6.2	11510	590	-4.8	-76	0.147
56-44.2378-109.6831-2-12-			0	W	01136		40500	934	19010	-37	-2	21.4	5.8	815	-1	-1	10.7	8162	324	-1.9	204	0.215
56-44.2369-109.6347-2-12-			0	W	01137		39160	653	22190	-33	-2	13.2	5.3	1001	-1	-1	7.6	3767	127	-1.5	135	0.221
56-44.2203-109.7017-2-12-			0	W	01138		39050	973	16910	-44	-2	21.8	9.7	1057	-1	2	17.2	9199	228	4.5	147	0.172
56-44.2067-109.7231-2-12-			0	W	01139		15550	537	20790	-35	-3	12.5	9.6	-289	-1	-1	24.2	4873	84	4.6	124	0.145
56-44.1939-109.7400-2-12-			0	W	01140		32540	723	18490	-33	-2	15.5	6.8	719	-1	-1	12.4	4271	145	-1.6	-90	0.225
56-44.1958-109.7425-2-12-			0	W	01141		60810	1208	15560					833				9199	500			
56-44.2306-109.7511-2-12-			0	W	01142		52320	1209	13360	-42	-7	33.3	5.1	-312	-1	-1	4.4	10490	702	-3.7	-44	0.227
56-44.2275-109.7506-2-12-			0	W	01143		32200	361	18380	-35	-6	21.6	7.9	708	-1	-1	12.3	4905	222	-2.9	-35	0.171
56-44.2297-109.7797-2-12-			0	W	01144		39190	580	19020	-29	-5	19.1	-2.1	735	-1	-1	11.8	5617	182	-2.5	59	0.195
56-44.0378-109.6383-2-12-			0	W	01145		56600	523	21780	-30	-5	21.2	4.0	1030	-1	-1	5.1	4754	162	-2.6	57	0.255
56-44.0389-109.6461-2-12-			0	W	01146		19940	478	24300	-26	-5	13.1	14.9	627	-1	2	20.3	6006	90	5.1	91	0.232
56-44.0294-109.6483-2-12-			0	W	01147		34960	592	20350	67	-5	15.0	6.9	896	-1	-1	10.9	4182	121	-2.7	100	0.183
56-44.3756-109.8581-2-12-			0	W	01148		16690	469	12670	51	-5	5.8	5.9	-306	-1	-1	8.6	3197	48	-2.1	-35	0.384
56-44.4153-109.9097-2-12-			0	W	01149		49050	670	19320	-33	-6	19.5	5.8	1214	-1	-1	5.6	4356	149	-2.8	-18	0.232
56-44.4631-109.9011-2-12-			0	W	01150		24810	517	20450	-29	-5	15.9	7.5	783	-1	-1	16.4	5399	188	5.0	35	0.171
56-44.4478-109.9222-2-12-			0	W	01151		27940	572	20410	52	-5	14.7	8.3	930	-1	-1	15.6	4580	86	3.6	-31	0.199
56-44.4050-109.9553-2-12-			0	W	01152		14520	584	21340	-35	-5	12.1	19.1	-306	-1	2	46.3	8674	125	12.8	95	0.134
56-44.4042-109.9639-2-12-			0	W	01153		27270	545	19390	51	-4	11.3	6.6	675	-1	-1	10.4	4732	98	4.0	80	0.221
56-44.4050-109.9833-2-12-			0	W	01154		50790	327	19260	-34	-6	20.4	5.9	1241	-1	-1	5.5	4231	168	-3.2	66	0.236
56-44.4042-109.9825-2-12-			0	W	01155		19160	623	24590	-41	-7	15.2	22.4	482	-2	-1	51.1	7796	143	12.4	-38	0.112
56-44.3942-109.9569-2-12-			0	W	01156		46490	913	16830	-36	-6	27.6	-2.2	839	-1	-1	3.9	5022	233	-3.0	96	0.282
56-44.3906-109.9714-2-12-			0	W	01157		56820	973	18530	-35	-6	27.2	4.6	1152	-1	-1	3.9	5855	216	-2.9	-39	0.282
56-44.3903-109.9694-2-12-			0	W	01158		45790	659	21000	-31	-5	17.5	-2.3	957	-1	-1	6.5	3976	164	4.1	-34	0.246
56-44.3742-109.9969-2-12-			0	W	01159		27310	581	12790	72	-4	10.2	9.2	360	-1	-1	14.4	3495	77	-2.3	-26	0.215
56-44.3739-109.9939-2-12-			0	W	01160		50090	804	23280	-33	-2	17.7	5.8	1251	-1	-1	6.9	6151	210	-1.7	-40	0.246
56-44.3650-109.5178-2-12-			0	W	01161		42960	692	20890	-31	-5	17.2	-2.1	1292	-1	-1	6.5	4913	119	-2.6	112	0.292
56-44.3622-109.5186-2-12-			0	W	01162		55420	441	21330	-33	-6	23.1	7.0	936	-1	-1	4.7	5115	171	-2.9		0.255
56-44.3544-109.5397-2-12-			0	W	01163		45320	582	27890	-21	-4	9.3	3.7	1346	-1		2.5	3577	111	-2.1	-44	0.560
56-44.2911-109.5375-2-12-			0	W	01164		50310	648	21060	-39	-7	25.1	-2.7	982	-1	-1	5.9	5348	177	-3.2	-41	0.203
56-44.2956-109.5375-2-12-			0	W	01165		43570	375	20810	-32	-5	19.6	-2.1	1140	-1	-1	7.1	4718	167	-2.7	101	0.225
56-44.2967-109.5361-2-12-			0	W	01166		54290	610	21190	-34	-5	22.9	6.7	1072	-1	-1	5.3	5385	205	-2.8	142	0.245
56-44.3108-109.5558-2-12-			0	W	01167		52410	740	25220	-31	-6	17.8	-2.3	1078	-1	-1	6.0	4101	147	-2.9	-30	0.250
56-44.3128-109.5519-2-12-			0	W	01168		69100	905	19620	-42	-7	29.2	-2.9	1029	-1	-1	5.4	5404	212	-3.7	-45	0.204

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.1658-109.6392-2-12-						0-W01169-07/05/77-15-			19-13.0-		-	-	5.7-	60-		1-2-6-3-6-3-2-1-2-3-2-3-2-																		3.50
56-44.1600-109.6742-2-12-						0-W01170-07/05/77-15-			19-13.0-		-	-	5.7-	60-		1-2-6-2-6-2-2-1-2-3-2-2-2-																		1.30
56-44.1583-109.7017-2-12-						0-W01171-07/05/77-16-			20-13.0-		-	-	5.7-	60-		1-2-6-4-6-3-2-1-2-1-2-3-2-																		1.40
56-44.1567-109.7022-2-12-						0-W01172-07/05/77-16-			20-11.0-		-	-	5.7-	65-		1-2-6-2-6-2-2-1-2-4-2-3-2-																		1.60
56-44.1875-109.5378-2-12-						0-W01173-07/05/77- 6-			15-12.0-		-	-	5.7-	140-		1-2-6-2-6-3-2-1-2-1-4-3-1-																		1.80
56-44.1667-109.5319-2-12-						0-W01174-07/06/77- 9-			17-10.0-		-	-	5.7-	70-		1-2-6-1-6-3-3-1-2-1-4-3-1-																		1.30
56-44.1658-109.5261-2-12-						0-W01175-07/06/77- 9-			16-10.0-		-	-	5.7-	20-		1-2-6-1-6-3-3-1-2-1-4-3-1-																		1.40
56-44.1547-109.5272-2-12-						0-W01176-07/06/77- 9-			19-10.0-		-	-	5.7-	70-		1-2-6-1-6-3-3-1-2-1-4-3-1-																		1.70
56-44.1244-109.5211-2-12-						0-W01177-07/06/77-11-			22- 9.0-		-	-	5.7-	160-		1-2-6-3-6-3-3-1-2-1-4-4-1-																		2.70
56-44.1225-109.5181-2-12-						0-W01178-07/06/77-11-			22- 9.0-		-	-	5.7-	160-		1-2-6-3-6-3-3-1-2-1-4-3-1-																		3.40
56-44.0106-109.6781-2-12-						0-W01179-07/06/77- 9-			12- 9.0-		-	-	5.7-	100-		1-2-6-2-6-2-2-1-2-3-4-2-1-																		2.10
56-44.0022-109.6886-2-12-						0-W01180-07/06/77- 9-			14-12.0-		-	-	5.7-	130-		1-2-6-3-6-3-3-1-2-1-2-3-1-																		1.10
56-44.1156-109.5558-2-12-						0-W01181-07/06/77-12-			20-12.0-		-	-	5.7-	130-		1-2-6-3-6-3-2-1-2-1-2-3-1-																		3.30
56-44.1156-109.5678-2-12-						0-W01182-07/06/77-12-			20-12.0-		-	-	5.7-	130-		1-2-6-3-6-3-2-1-2-1-2-3-1-																		3.60
56-44.0319-109.5836-2-12-						0-W01183-07/06/77-19-			15-11.0-		-	-	5.7-	160-		1-2-6-1-6-3-2-1-2-1-4-3-1-																		1.30
56-44.0128-109.5708-2-12-						0-W01184-07/06/77-19-			14- 9.0-		-	-	5.7-	60-		1-2-6-2-6-3-2-1-2-1-5-4-1-																		1.50
56-44.9458-109.9178-2-12-						0-W01185-07/02/77-12-			10-11.0-		-	-	5.7-	75-		3-2-7-1-7-3-3-1-2-1-4-5-4-																		1.60
56-44.9486-109.8944-2-12-						0-W01186-07/02/77-13-			10-13.0-		-	-	6.7-	270-		0-2-7-1-7-3-3-1-2-1-4-5-4-																		1.80
56-44.9481-109.8800-2-12-						0-W01187-07/02/77-13-			10-12.4-		-	-	6.7-	256-		-2-7-1-1-3-3-1-2-1-4-5-4-																		1.80
56-44.9528-109.8806-2-12-						0-W01188-07/02/77-13-			11-12.5-		-	-	6.2-	175-		0-2-7-2-7-3-3-1-2-1-4-5-4-																		0.70
56-44.9519-109.8586-2-12-						0-W01189-07/02/77-14-			12-13.5-		-	-	6.4-	170-		0-2-7-2-7-3-3-1-2-1-4-5-4-																		0.70
56-44.9558-109.8394-2-12-						0-W01190-07/02/77-15-			10-12.5-		-	-	6.8-	450-		0-2-7-3-6-3-3-1-2-1-4-5-4-																		0.70
56-44.9533-109.8267-2-12-						0-W01191-07/02/77-15-			10-12.5-		-	-	6.8-	460-		0-2-7-3-6-3-3-1-2-1-4-5-4-																		1.50
56-44.9569-109.8297-2-12-						0-W01192-07/02/77-15-			10-11.0-		-	-	5.4-	75-		0-2-7-2-6-3-3-1-2-1-3-5-4-																		0.80
56-44.6558-109.6050-2-12-						0-W01193-07/03/77-11-			27-13.0-		-	-	5.7-	220-		1-1-6-2-6-3-2-1-2-1-2-4-2-																		1.50
56-44.6561-109.6089-2-12-						0-W01194-07/03/77-11-			27-13.0-		-	-	6.1-	200-		1-1-6-2-6-3-2-1-2-1-4-4-2-																		1.50
56-44.8961-109.7128-2-12-						0-W01195-07/03/77- 8-			8-11.0-		-	-	7.0-	270-		1-1-6-3-6-3-3-1-2-1-3-3-3-																		2.30
56-44.8703-109.6158-2-12-						0-W01196-07/02/77-10-			19-13.0-		-	-	6.6-	285-		1-1-6-3-6-3-3-1-2-1-4-3-3-																		2.90
56-44.8703-109.5381-2-12-						0-W01197-07/02/77-11-			19-11.0-		-	-	6.5-	270-		1-1-6-3-6-3-3-1-2-1-4-3-4-																		3.30
56-44.8683-109.5111-2-12-						0-W01198-07/02/77-11-			19-13.0-		-	-	6.6-	270-		1-1-6-3-6-3-3-1-2-1-4-3-4-																		2.50
56-44.8536-109.4858-2-12-						0-W01199-07/02/77-12-			19-11.0-		-	-	6.6-	285-		1-1-6-3-6-3-3-1-2-1-4-3-4-																		1.10
56-44.8469-109.4631-2-12-						0-W01200-07/02/77-13-			19-12.0-		-	-	6.6-	270-		1-1-6-3-6-3-3-1-2-1-4-3-4-																		3.30
56-44.8283-109.4403-2-12-						0-W01201-07/02/77-14-			19- 1.2-		-	-	6.5-	280-		1-1-6-4-3-3-3-1-2-1-4-3-4-																		1.80
56-44.8253-109.4297-2-12-						0-W01202-07/02/77-15-			21-11.0-		-	-	6.6-	285-		1-1-6-4-3-3-3-1-2-1-4-3-4-																		3.60
56-44.8206-109.4211-2-12-						0-W01203-07/02/77-15-			23-14.0-		-	-	6.5-	285-		1-1-6-4-3-3-3-1-2-1-4-3-4-																		2.90
56-44.8111-109.4072-2-12-						0-W01204-07/02/77-15-			24-12.0-		-	-	6.5-	290-		1-1-6-3-4-3-3-3-1-2-1-3-3-																		2.27
56-44.7814-109.3642-2-12-						0-W01205-07/02/77-13-			20-11.0-		-	-	6.5-	280-		1-1-6-1-6-2-3-1-3-1-4-2-4-																		2.20
56-44.7681-109.3964-2-12-						0-W01206-07/02/77-13-			20-11.0-		-	-	6.7-	285-		1-1-6-1-6-2-3-1-3-1-4-2-4-																		1.00
56-44.7197-109.4031-2-11-						0-W01207-07/03/77-13-			14-11.5-		-	-	6.8-	700-		0-2-1-4-6-3-3-1-2-1-4-3-3-																		3.52
56-44.7167-109.4825-2-12-						0-W01208-07/03/77-12-			18-12.5-		-	-	6.5-	700-		0-2-7-2-7-4-4-4-2-1-4-3-3-																		2.96
56-44.7036-109.4867-2-12-						0-W01209-07/03/77-13-			19-12.0-		-	-	6.8-	685-		1-2-7-2-7-4-4-4-2-1-4-3-3-																		2.53
56-44.7314-109.4303-2-12-						0-W01210-07/03/77-15-			16-11.5-		-	-	6.8-	700-		0-2-7-2-7-4-4-4-2-1-4-3-3-																		3.54
56-44.5175-109.3764-2-12-						0-W01211-07/04/77- 6-			16-10.0-		-	-	6.5-	150-		1-3-6-2-6-3-3-1-2-3-4-3-2-																		2.82
56-44.5189-109.3733-2-12-						0-W01212-07/04/77- 6-			16-10.0-		-	-	6.5-	145-		1-3-6-4-6-2-2-3-3-4-3-3-																		2.40
56-44.5264-109.3772-2-12-						0-W01213-07/04/77- 7-			15-10.0-		-	-	6.6-	130-		0-3-6-4-6-3-2-1-2-3-3-3-4-																		1.80
56-44.5344-109.3839-2-12-						0-W01214-07/04/77- 7-			17-11.0-		-	-	6.5-	150-		1-3-6-3-6-3-3-1-2-1-2-2-3-																		2.89
56-44.5433-109.3856-2-12-						0-W01215-07/04/77- 8-			17- 9.0-		-	-	6.5-	150-		1-3-6-3-6-3-3-1-2-1-4-4-3-																		3.49
56-44.5450-109.3814-2-12-						0-W01216-07/04/77- 8-			15-10.0-		-	-	6.6-	150-		1-3-6-3-6-3-2-1-2-3-3-3-3-																		2.91
56-44.5631-109.4392-2-12-						0-W01217-07/04/77-10-			21-12.0-		-	-	6.5-	145-		1-3-6-3-6-3-3-1-2-3-5-3-3-																		2.95
56-44.5639-109.4358-2-12-						0-W01218-07/04/77-10-			21-11.0-		-	-	6.1-	110-		1-3-6-3-6-3-2-1-2-3-3-2-4-																		2.88
56-44.5703-109.4342-2-12-						0-W01219-07/04/77-10-			22-11.0-		-	-	5.8-	60-		1-3-6-3-6-2-2-1-2-1-3-2-3-																		3.46

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.1658-109.6392-2-12-						0-W01168	-5	-5	-5	17	-20	-15	11	-10	-15	2	28
56-44.1600-109.6742-2-12-						0-W01170	-5	-5	-5	33	-20	81	14	-10	-15	2	14
56-44.1583-109.7017-2-12-						0-W01171	-5	-5	-5	28	-20	100	11	-10	-15	2	19
56-44.1567-109.7022-2-12-						0-W01172	-5	-5	-5	31	-20	79	8	-10	-15	2	16
56-44.1875-109.5378-2-12-						0-W01173	-5	-5	-5	32	-20	42	12	-10	-15	2	19
56-44.1567-109.5319-2-12-						0-W01174										2	26
56-44.1658-109.5261-2-12-						0-W01175	-5	-5	-5	26	-20	73	18	-10	-15	2	20
56-44.1647-109.5272-2-12-						0-W01176	-5	-5	-5	29	-20	50	9	-10	-15	2	26
56-44.1244-109.5211-2-12-						0-W01177	-5	-5	-5	25	-20	33	14	-10	-15	2	26
56-44.1225-109.5181-2-12-						0-W01178	-5	-5	-5	23	-20	-15	19	-10	-15	2	27
56-44.0106-109.6781-2-12-						0-W01179	-5	8	-5	25	-20	24	6	-10	-15	2	38
56-44.0022-109.6886-2-12-						0-W01180	-5	-5	-5	29	-20	104	8	-10	-15	1	15
56-44.1156-109.5658-2-12-						0-W01181	-5	7	-5	17	-20	19	10	-10	-15	3	39
56-44.1156-109.5678-2-12-						0-W01182	-5	-5	-5	25	-20	-15	15	-10	-15	2	26
56-44.0319-109.5836-2-12-						0-W01183	-5	-5	-5	37	-20	93	13	-10	-15	2	18
56-44.0128-109.5708-2-12-						0-W01184	-5	-5	-5	39	-20	109	13	-10	-15	2	20
56-44.9458-109.9178-2-12-						0-W01185	-5	-5	-5	38	-20	53	9	-10	-15	2	24
56-44.9486-109.8944-2-12-						0-W01186	-5	-5	-5	35	-20	35	-5	-10	-15	3	30
56-44.9481-109.8800-2-12-						0-W01187	-5	-5	-5	21	-20	53	11	-10	-15	2	32
56-44.9528-109.8806-2-12-						0-W01188	-5	-5	-5	43	-20	114	7	-10	-15	2	19
56-44.9519-109.8586-2-12-						0-W01189	-5	-5	-5	38	-20	135	12	-10	-15	2	34
56-44.9558-109.8394-2-12-						0-W01190	-5	-5	-5	37	-20	77	11	-10	-15	1	16
56-44.9533-109.8267-2-12-						0-W01191	-5	-5	-5	52	-20	47	10	-10	-15	2	24
56-44.9569-109.8297-2-12-						0-W01192	-5	-5	-5	27	-20	81	5	-10	-15	2	17
56-44.6558-109.6050-2-12-						0-W01193	-5	-5	-5	34	-20	40	7	-10	-15	2	24
56-44.6561-109.6089-2-12-						0-W01194	-5	-5	-5	43	-20	31	14	-10	-15	2	17
56-44.8961-109.7128-2-12-						0-W01195	-5	-5	-5	35	-20	25	11	-10	19	2	21
56-44.8703-109.6158-2-12-						0-W01196	-5	-5	-5	19	-20	25	9	-10	-15	2	22
56-44.8703-109.5381-2-12-						0-W01197	-5	-5	-5	17	-20	19	12	-10	-15	2	40
56-44.8583-109.5111-2-12-						0-W01198	-5	-5	-5	22	-20	40	16	-10	-15	2	32
56-44.3536-109.4858-2-12-						0-W01199	-5	-5	-5	45	-20	31	13	-10	-15	2	19
56-44.8469-109.4631-2-12-						0-W01200	-5	-5	-5	22	-20	49	17	-10	-15	2	27
56-44.8283-109.4403-2-12-						0-W01201	-5	-5	-5	15	-20	30	12	-10	-15	2	18
56-44.8253-109.4297-2-12-						0-W01202	-5	-5	-5	21	-20	37	6	-10	-15	2	21
56-44.8206-109.4211-2-12-						0-W01203	-5	-5	-5	19	-20	16	13	-10	-15	2	21
56-44.8111-109.4072-2-12-						0-W01204											
56-44.7814-109.3642-2-12-						0-W01205	-5	-5	-5	37	-20	35	10	-10	-15	2	20
56-44.7681-109.3964-2-12-						0-W01206	-5	-5	-5	34	-20	28	-5	-10	-15	2	15
56-44.7197-109.4031-2-11-						0-W01207	-5	-5	-5	19	-20	23	17	-10	-15	2	33
56-44.7167-109.4825-2-12-						0-W01208	-5	-5	-5	30	-20	16	17	-10	-15	2	39
56-44.7036-109.4867-2-12-						0-W01209	-5	-5	-5	34	-20	24	9	-10	-15	2	31
56-44.7314-109.4303-2-12-						0-W01210	-5	-5	-5	25	-20	23	14	-10	-15	2	23
56-44.5175-109.3764-2-12-						0-W01211	-5	-5	-5	22	-20	-15	14	-10	-15	2	44
56-44.5189-109.3733-2-12-						0-W01212	-5	-5	-5	26	-20	45	12	-10	-15	2	26
56-44.5264-109.3772-2-12-						0-W01213	-5	-5	-5	30	-20	46	10	-10	-15	2	42
56-44.5344-109.3839-2-12-						0-W01214	-5	-5	-5	21	-20	28	11	-10	-15	2	27
56-44.5433-109.3856-2-12-						0-W01215	-5	-5	-5	27	-20	18	9	-10	-15	2	30
56-44.5450-109.3814-2-12-						0-W01216	-5	-5	-5	22	-20	23	12	-10	-15	2	28
56-44.5631-109.4392-2-12-						0-W01217	-5	-5	-5	19	-20	-15	-5	-10	-15	2	26
56-44.5639-109.4358-2-12-						0-W01218	-5	-5	-5	19	-20	31	16	-10	-15	2	41
56-44.5703-109.4342-2-12-						0-W01219	-5	-5	-5	25	-20	-15	10	-10	-15	2	42

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.1658-	109.6392-	2-	12-	0-	W01169	72290	-0.18	911	20910	123	157	12.1	97	1.9	5	2.2	36370	22.3	14450	72	0.6
56-	44.1600-	109.6742-	2-	12-	0-	W01170	72010	-0.22	911	50550	69	-116	27.0	367	-1.7	3	1.6	57930	3.9	10140	-25	0.2
56-	44.1583-	109.7017-	2-	12-	0-	W01171	80930	-0.25	1090	50670	74	-113	23.5	349	-1.8	2	1.5	49450	3.5	10060	-19	-0.1
56-	44.1567-	109.7022-	2-	12-	0-	W01172	91150	-0.26	1228	42200	78	-108	28.6	305	-1.9	2	2.0	54380	4.1	10290	-31	-0.2
56-	44.1375-	109.5378-	2-	12-	0-	W01173	80920	-0.21	1248	38360	96	-116	20.2	182	-1.6	3	1.9	43480	4.8	13290	57	-0.1
56-	44.1667-	109.5319-	2-	12-	0-	W01174	75950	-0.22	1016	47640	55	-120	28.9	348	-1.7	2	1.1	52320	3.1	11120	43	-0.1
56-	44.1658-	109.5261-	2-	12-	0-	W01175	85390	-0.24	1183	49470	71	-113	24.4	259	-1.8	2	1.5	46840	3.4	12070	-22	-0.1
56-	44.1647-	109.5272-	2-	12-	0-	W01176	81110	-0.25	1145	43470	92	-101	27.6	229	-1.8	2	2.0	53550	4.6	14430	-26	-0.2
56-	44.1244-	109.5211-	2-	12-	0-	W01177	72120	-0.19	1225	31280	86	-104	16.4	122	2.2	4	1.9	38950	9.8	14190	62	0.4
56-	44.1225-	109.5181-	2-	12-	0-	W01178	72530	-0.17	822	25530	106	-105	11.0	78	-1.3	5	2.0	33040	21.3	13480	76	0.4
56-	44.0196-	109.6781-	2-	12-	0-	W01179	63790	-0.21	939	39360	66	-96	13.0	133	2.3	4	1.3	28420	6.2	13510	-19	-0.1
56-	44.0022-	109.6886-	2-	12-	0-	W01180	53220	-0.27	690	50470	105	-88	35.7	347	-2.0	2	2.1	78370	7.0	8037	68	-0.2
56-	44.1156-	109.5658-	2-	12-	0-	W01181	71490	-0.18	841	23360	122	-105	12.1	86	2.8	5	2.2	36450	21.6	14500	72	0.4
56-	44.1156-	109.5678-	2-	12-	0-	W01182	69910	-0.17	791	22330	117	170	9.8	68	1.7	6	2.3	37230	24.0	16000	70	0.5
56-	44.0319-	109.5836-	2-	12-	0-	W01183	75160	-0.09	1003	50670	82	-107	31.1	400	-2.4	2	1.5	60480	4.1	16350	43	-0.1
56-	44.0128-	109.5708-	2-	12-	0-	W01184	78320	-0.07	1199	47370	74	-133	24.5	323	-2.0	3	1.2	47660	3.6	13450	38	0.2
56-	44.9458-	109.9178-	2-	12-	0-	W01185	80910	-0.08	1163	44850	69	-120	19.7	175	-2.0	3	1.9	44550	4.9	15380	35	0.2
56-	44.9486-	109.8944-	2-	12-	0-	W01186	63200	-0.11	910	51040	66	-97	32.3	382	-2.7	3	1.9	83510	6.9	13460	30	0.4
56-	44.9481-	109.8800-	2-	12-	0-	W01187	76320	-0.08	1011	40040	79	-128	18.8	238	-1.4	3	1.8	39940	6.9	12810	38	-0.1
56-	44.9528-	109.8806-	2-	12-	0-	W01188	77720	-0.08	1087	53700	49	-139	27.2	508	-2.1	-1	0.9	47980	2.7	12430	23	0.2
56-	44.9519-	109.8586-	2-	12-	0-	W01189	75180	-0.06	956	47310	50	-132	24.8	416	-1.6	2	1.3	42770	2.2	-4150	19	-0.1
56-	44.9558-	109.8394-	2-	12-	0-	W01190	73950	-0.08	946	72790	35	-127	24.8	279	-1.9	-1	0.8	43700	2.0	10470	17	-0.1
56-	44.9533-	109.8267-	2-	12-	0-	W01191	71440	-0.08	980	61470	60	-110	19.1	232	-2.0	3	1.5	41670	4.7	13090	27	0.2
56-	44.9569-	109.8297-	2-	12-	0-	W01192	83450	-0.10	1152	57960	61	-118	31.9	458	-2.6	3	1.3	60620	3.1	12670	31	-0.1
56-	44.6558-	109.6050-	2-	12-	0-	W01193	63140	-0.06	833	42740	55	-113	18.7	137	-1.5	3	1.5	43060	4.0	15850	25	0.2
56-	44.6561-	109.6089-	2-	12-	0-	W01194	63450	-0.07	1025	70130	52	-116	18.1	123	-1.9	3	0.9	42680	3.3	13710	30	0.2
56-	44.8961-	109.7128-	2-	12-	0-	W01195	77040	-0.08	928	45610	105	-114	17.4	178	-2.1	4	1.9	43960	11.0	13700	47	0.3
56-	44.8703-	109.6159-	2-	12-	0-	W01196	64880	-0.08	909	32010	117	-96	18.3	159	-2.0	4	2.4	42080	17.7	14890	59	0.4
56-	44.8703-	109.5381-	2-	12-	0-	W01197	73060	-0.05	896	23510	111	-126	11.8	84	2.1	5	2.2	33230	19.0	16900	52	0.3
56-	44.8683-	109.5111-	2-	12-	0-	W01198	73770	-0.06	1063	22300	97	183	12.5	103	-1.6	4	1.9	30900	11.8	16160	50	0.3
56-	44.8536-	109.4858-	2-	12-	0-	W01199	82350	-0.10	1171	61720	57	-124	24.9	235	-2.5	3	1.8	62070	2.9	14330	26	-0.1
56-	44.8469-	109.4631-	2-	12-	0-	W01200	75570	-0.08	937	25620	126	-106	15.6	110	2.9	5	2.5	42650	25.7	16320	63	0.4
56-	44.8283-	109.4403-	2-	12-	0-	W01201	81760	-0.06	1206	39970	98	-140	18.0	172	-1.4	2	1.8	38540	4.7	16880	41	-0.1
56-	44.8253-	109.4297-	2-	12-	0-	W01202	65870	-0.07	886	30110	136	213	14.5	112	-1.8	6	2.6	39850	24.4	14060	66	0.4
56-	44.8206-	109.4211-	2-	12-	0-	W01203	60310	-0.07	824	31040	103	-94	10.9	104	-1.6	4	1.9	28260	14.5	17700	46	0.3
56-	44.8111-	109.4072-	2-	12-	0-	W01204	74040	-0.11	888	38710	101	-116	27.6	281	-2.8	4	2.5	70780	11.9	15010	46	0.3
56-	44.7814-	109.3642-	2-	12-	0-	W01205	65910	-0.06	814	30830	81	-114	22.3	249	-1.5	3	1.9	58920	9.6	11290	38	0.2
56-	44.7681-	109.3964-	2-	12-	0-	W01206	75940	-0.17	892	62560	34	-225	25.0	311	-4.6	-2	0.7	56790	-2.0	16030	-11	-0.2
56-	44.7197-	109.4031-	2-	11-	0-	W01207	74480	-0.07	828	25190	139	136	11.1	94	-1.8	5	2.1	33890	23.8	15120	54	0.4
56-	44.7167-	109.4825-	2-	12-	0-	W01208	70740	-0.07	830	25910	111	-101	13.9	102	2.9	5	2.2	36240	15.5	15360	56	0.3
56-	44.7036-	109.4867-	2-	12-	0-	W01209	73770	-0.05	821	28800	91	158	12.2	95	-1.3	4	1.9	32260	13.3	15480	39	0.3
56-	44.7314-	109.4303-	2-	12-	0-	W01210	72780	-0.06	872	31270	115	-119	15.3	148	-1.6	5	2.3	42400	23.4	15710	57	0.3
56-	44.5175-	109.3764-	2-	12-	0-	W01211	69890	-0.07	962	27900	84	-107	9.9	99	2.6	4	1.7	26700	8.6	17350	37	0.3
56-	44.5189-	109.3733-	2-	12-	0-	W01212	70280	-0.10	938	46450	97	-103	27.0	303	-2.5	4	2.4	70290	16.2	14100	51	0.4
56-	44.5264-	109.3772-	2-	12-	0-	W01213	62630	-0.06	836	44670	55	-104	23.5	252	-1.6	3	1.7	58060	4.3	14790	25	-0.1
56-	44.5344-	109.3839-	2-	12-	0-	W01214	69260	-0.06	854	25440	81	-118	11.8	91	-1.5	5	1.7	29990	10.8	15140	43	0.3
56-	44.5433-	109.3856-	2-	12-	0-	W01215	72860	-0.08	857	25940	109	-115	9.1	86	-1.9	6	2.0	30000	21.1	14400	52	0.4
56-	44.5450-	109.3814-	2-	12-	0-	W01216	70520	-0.08	879	25050	107	-103	12.7	109	-1.9	5	2.0	34790	14.8	19530	54	0.5
56-	44.5631-	109.4392-	2-	12-	0-	W01217	69080	-0.06	1004	42500	104	-121	25.3	93	-1.5	5	2.3	72260	13.5	12380	48	0.4
56-	44.5639-	109.4358-	2-	12-	0-	W01218	72210	-0.07	1139	34040	78	-124	15.1	117	3.0	4	1.2	39220	11.4	15080	37	0.3
56-	44.5703-	109.4342-	2-	12-	0-	W01219	73660	-0.07	889	22600	134	-112	10.5	85	-1.7	5	2.3	32690	22.9	14800	54	0.5

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.1658-109.6392-2-12-						0-W01169	21830	529	20560	-25	-4	11.0	10.4	495	-1	-1	19.1	4946	82	4.2	101	0.183
56-44.1600-109.6742-2-12-						0-W01170	54170	770	21540	-32	-5	22.8	5.5	1047	-1	-1	5.8	4320	200	-2.8	114	0.224
56-44.1583-109.7017-2-12-						0-W01171	58290	762	23730	-32	-6	17.7	-2.3	1241	-1	-1	6.4	4337	153	-3.0	142	0.219
56-44.1567-109.7022-2-12-						0-W01172	50930	674	23820	-37	-5	17.9	5.9	1097	-1	-1	7.0	3835	121	-3.2	-38	0.229
56-44.1875-109.5378-2-12-						0-W01173	40710	603	23070	-29	-5	14.0	-2.1	1035	-1	-1	7.8	4629	128	-2.6	58	0.231
56-44.1667-109.5319-2-12-						0-W01174	59170	743	21830	-34	-5	18.7	3.9	1266	-1	-1	4.6	3533	153	-2.7	56	0.283
56-44.1658-109.5261-2-12-						0-W01175	60010	772	23730	-31	-6	15.6	6.6	985	-1	-1	5.2	4294	142	-3.0	81	0.269
56-44.1647-109.5272-2-12-						0-W01176	33430	641	21300	-35	-6	13.1	-2.7	1016	-1	-1	8.0	4009	122	-3.2	-44	0.213
56-44.1244-109.5211-2-12-						0-W01177	23820	572	20640	82	-6	13.2	5.7	1044	-1	-1	10.2	4215	103	5.6	46	0.265
56-44.1225-109.5181-2-12-						0-W01178	19100	529	20780	-25	-4	10.3	10.1	642	-1	-1	19.7	4478	81	7.4	94	0.173
56-44.0106-109.6781-2-12-						0-W01179	38160	614	15240	32	-5	10.4	5.3	440	-1	-1	8.5	4251	103	-2.7	67	0.247
56-44.0022-109.6986-2-12-						0-W01180	73090	936	15740	-37	-7	23.9	10.3	586	-1	-1	9.2	5190	193	-3.4	-40	0.120
56-44.1156-109.5658-2-12-						0-W01181	18650	524	20880	50	-4	10.9	9.9	422	-1	-1	17.9	4638	77	4.6	109	0.184
56-44.1156-109.5678-2-12-						0-W01182	12630	497	22100	62	-4	10.2	9.6	440	-1	1	21.5	4248	88	5.3	79	0.167
56-44.0319-109.5836-2-12-						0-W01183	61660	706	23400	-36	-2	24.6	5.3	1049	-1	-1	6.0	4404	155	-1.8	97	0.217
56-44.0128-109.5708-2-12-						0-W01184	52050	715	24980	-32	-2	17.7	4.8	854	-1	-1	5.7	4913	146	-1.3	162	0.263
56-44.9458-109.9178-2-12-						0-W01185	39480	741	22520	-31	-2	15.7	4.2	997	-1	-1	4.2	4561	181	-1.9	-35	0.381
56-44.9486-109.8944-2-12-						0-W01186	46650	797	14020	-44	-2	28.0	5.7	621	-2	-1	7.2	7650	332	-2.0	120	0.250
56-44.9481-109.8800-2-12-						0-W01187	45310	555	21770	-25	-2	14.6	6.8	962	-1	-1	8.2	4553	125	-1.4	82	0.220
56-44.9528-109.8806-2-12-						0-W01188	65600	766	23100	-34	-2	20.4	3.7	1127	-1	-1	2.1	4164	145	-1.5		0.333
56-44.9519-109.8586-2-12-						0-W01189	73910	737	22590	-25	-1	18.6	4.7	843	-1	-1	3.2	3460	127	-1.2	39	0.219
56-44.9558-109.8394-2-12-						0-W01190	63620	690	19330	-31	-2	17.6	2.9	1018	-1	-1	2.3	3801	131	-1.4	122	0.304
56-44.9533-109.8267-2-12-						0-W01191	61110	592	19750	-30	-2	16.6	5.1	698	-1	-1	5.8	4173	132	-1.5	-35	0.259
56-44.9569-109.8297-2-12-						0-W01192	60650	781	24130	-39	-2	25.6	4.7	1148	-2	-1	3.9	4344	156	-2.0	57	0.205
56-44.6558-109.6050-2-12-						0-W01193	47180	666	15420	-22	-1	17.5	5.0	812	-1	-1	5.4	4181	163	-1.0	-95	0.278
56-44.6561-109.6089-2-12-						0-W01194	45410	624	16350	-30	-2	17.0	4.4	862	-1	-1	5.5	3586	146	-1.4	-8	0.273
56-44.8961-109.7128-2-12-						0-W01195	36260	742	20740	-31	-2	17.1	6.5	674	-1	-1	12.3	5111	168	-1.5	87	0.187
56-44.8703-109.6159-2-12-						0-W01196	29740	522	17590	-32	-2	13.5	8.0	681	-2	-1	16.2	4424	100	2.7	102	0.179
56-44.8703-109.5381-2-12-						0-W01197	21500	569	21350	-20	-1	10.3	9.7	-303	-1	-1	15.8	4811	83	-1.2	59	0.209
56-44.8583-109.5111-2-12-						0-W01198	21350	597	21010	-27	-2	10.1	8.1	543	-1	-1	13.6	4420	74	2.6	124	0.184
56-44.8536-109.4858-2-12-						0-W01199	53260	329	21800	-37	-2	25.8	5.0	1093	-2	-1	3.9	6450	283	-1.9	-43	0.282
56-44.8469-109.4631-2-12-						0-W01200	24140	581	22110	-31	-2	13.2	9.8	757	-1	-1	21.2	4925	86	5.0	124	0.156
56-44.8283-109.4403-2-12-						0-W01201	32450	599	24530	-22	-1	12.3	6.4	1010	-1	-1	7.5	5323	118	-1.1	48	0.240
56-44.9253-109.4297-2-12-						0-W01202	23940	559	18110	-31	-2	12.1	11.8	449	-1	-1	18.9	5075	103	3.1	80	0.190
56-44.8206-109.4211-2-12-						0-W01203	26280	465	16560	-24	-2	9.3	7.5	492	-1	-1	13.5	4565	86	3.2	97	0.215
56-44.8111-109.4072-2-12-						0-W01204	43140	802	19970	-46	-3	25.2	8.2	720	-2	-2	13.7	6703	238	3.4	114	0.166
56-44.7814-109.3642-2-12-						0-W01205	38960	903	19530	44	-1	21.1	7.7	922	-1	-1	9.3	6423	249	-1.1	150	0.237
56-44.7581-109.3964-2-12-						0-W01206	65340	1121	18560	-73	-4	25.6	2.9	1106	-3	-2	-2.5	8320	468	-3.3	214	
56-44.7197-109.4031-2-11-						0-W01207	21330	556	22370	56	-2	10.1	9.3	597	-1	-1	21.0	4928	87	3.5	73	0.168
56-44.7167-109.4825-2-12-						0-W01208	20890	575	19470	53	-2	11.8	9.1	557	-1	-1	18.5	3908	71	4.5	89	0.160
56-44.7036-109.4867-2-12-						0-W01209	25500	599	19930	-20	-1	11.3	8.0	783	-1	-1	10.6	3952	101	3.2	75	0.239
56-44.7314-109.4303-2-12-						0-W01210	24530	596	21510	50	-2	12.8	9.0	527	-1	-1	20.6	4852	106	3.5	78	0.172
56-44.5175-109.3764-2-12-						0-W01211	21360	565	19500	53	-2	9.0	6.2	435	-1	-1	12.2	3783	92	2.9	52	0.231
56-44.5189-109.3733-2-12-						0-W01212	40640	758	18110	-41	-2	24.8	8.1	717	-2	-1	14.3	6716	261	-1.8	98	0.168
56-44.5264-109.3772-2-12-						0-W01213	42500	717	17930	40	-1	20.5	6.2	505	-1	-1	5.1	6528	283	-1.2	127	0.353
56-44.5344-109.3839-2-12-						0-W01214	25550	541	19250	-25	-1	9.7	6.7	569	-1	-1	12.7	4015	83	2.1	82	0.228
56-44.5433-109.3856-2-12-						0-W01215	18870	556	22160	-28	-2	9.3	8.4	460	-1	-1	19.5	5051	80	4.2	77	0.179
56-44.5450-109.3814-2-12-						0-W01216	24820	562	19560	-32	-2	11.5	7.6	677	-1	-1	15.6	3610	87	3.9	104	0.187
56-44.5631-109.4392-2-12-						0-W01217	37720	979	24530	-26	-2	17.6	9.9	1245	-1	-1	12.7	10180	226	2.9	-109	0.232
56-44.5639-109.4358-2-12-						0-W01218	31780	607	20760	73	-2	13.8	6.7	616	-1	-1	11.1	5144	128	3.0	151	0.259
56-44.5703-109.4342-2-12-						0-W01219	17960	566	22130	-26	-2	9.4	10.6	-318	-1	-1	21.4	4345	73	4.2	111	0.162

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	44.5786	109.4364	2	12	-	0-W01220	07/04/77	10	21	9.0	-	-	5.8	80	-	0	3	6	2	6	2	2	1	2	3	3	2	3	-	1	-	-	-	-	1.69
56	44.5994	109.4397	2	12	-	0-W01221	07/04/77	11	23	12.0	-	-	5.7	68	-	1	3	6	3	6	3	3	1	1	3	3	1	3	-	1	-	-	-	-	0.82
56	44.6047	109.4361	2	12	-	0-W01222	07/04/77	11	21	12.0	-	-	6.3	120	-	1	3	6	3	6	2	2	2	1	3	2	2	3	-	1	-	-	-	-	2.89
56	44.6119	109.4333	2	12	-	0-W01223	07/04/77	12	20	10.0	-	-	6.0	70	-	0	3	6	3	6	3	3	2	2	1	3	3	3	-	1	-	-	-	-	2.25
56	44.6158	109.4314	2	12	-	0-W01224	07/04/77	12	20	10.0	-	-	6.1	110	-	1	3	6	3	6	2	3	2	2	1	4	3	3	-	1	-	-	-	-	1.79
56	44.6489	109.4264	2	12	-	0-W01225	07/04/77	11	24	11.0	-	-	5.7	65	-	0	3	6	4	6	3	3	1	2	1	3	3	2	-	1	-	-	-	-	2.56
56	44.5117	109.4347	2	12	-	0-W01226	07/04/77	13	26	10.0	-	-	6.2	180	-	0	3	4	2	6	3	2	1	2	2	3	3	3	-	1	-	-	-	-	2.84
56	44.5119	109.4214	2	11	-	0-W01227	07/04/77	13	25	10.0	-	-	5.6	70	-	1	3	4	2	6	3	2	1	3	5	3	3	3	-	1	-	-	-	-	1.22
56	44.5094	109.5131	2	12	-	0-W01228	07/04/77	15	25	10.0	-	-	5.6	20	-	0	3	4	4	6	3	3	1	2	4	4	3	3	-	1	-	-	-	-	2.47
56	44.5100	109.5172	2	12	-	0-W01229	07/04/77	15	25	10.0	-	-	6.0	70	-	0	3	4	4	6	2	2	1	2	1	3	3	3	-	1	-	-	-	-	1.19
56	44.4253	109.5050	2	12	-	0-W01230	07/04/77	17	24	9.0	-	-	6.5	70	-	0	3	6	3	6	3	3	1	2	1	3	4	3	-	1	-	-	-	-	3.47
56	44.4286	109.5269	2	12	-	0-W01231	07/04/77	19	20	10.0	-	-	6.5	150	-	0	3	6	3	6	3	3	1	2	1	3	4	3	-	1	-	-	-	-	3.26
56	44.4283	109.5289	2	12	-	0-W01232	07/04/77	19	20	10.0	-	-	6.5	150	-	1	3	6	3	6	3	3	1	2	1	3	4	3	-	1	-	-	-	-	2.82
56	44.0267	109.2617	2	12	-	0-W01234	07/08/77	8	17	9.0	-	-	5.1	140	-	1	1	6	3	6	3	3	1	2	2	2	3	1	-	1	-	-	-	-	2.20
56	44.0172	109.2531	2	12	-	0-W01235	07/08/77	8	17	8.0	-	-	6.3	150	-	1	1	6	2	6	2	3	1	2	2	2	2	1	-	1	-	-	-	-	1.76
56	44.0061	109.2519	2	12	-	0-W01236	07/08/77	8	16	9.0	-	-	6.1	130	-	1	1	6	3	6	3	3	1	2	1	2	3	1	-	1	-	-	-	-	2.62
56	44.0458	109.2575	2	12	-	0-W01237	07/08/77	9	18	10.0	-	-	6.1	140	-	1	1	6	4	6	3	3	1	2	1	4	3	1	-	1	-	-	-	-	2.64
56	44.0431	109.2597	2	12	-	0-W01238	07/08/77	9	18	9.0	-	-	6.1	140	-	1	1	6	4	6	4	2	1	2	1	4	3	1	-	1	-	-	-	-	2.98
56	44.0486	109.3436	2	12	-	0-W01239	07/08/77	10	20	10.0	-	-	6.1	120	-	1	1	6	3	6	3	2	1	2	1	2	2	1	-	1	-	-	-	-	2.50
56	44.0183	109.3392	2	12	-	0-W01240	07/08/77	10	19	9.0	-	-	6.3	110	-	1	1	6	4	6	3	3	1	3	1	3	3	1	-	1	-	-	-	-	1.75
56	44.0186	109.3433	2	12	-	0-W01241	07/08/77	10	20	10.0	-	-	6.1	120	-	1	1	6	4	6	3	2	1	2	1	3	3	1	-	1	-	-	-	-	1.77
56	44.0036	109.3428	2	12	-	0-W01242	07/08/77	10	20	11.0	-	-	6.3	110	-	1	1	6	3	6	2	3	1	2	1	3	3	1	-	1	-	-	-	-	1.78
56	44.0028	109.3472	2	12	-	0-W01243	07/08/77	10	20	11.0	-	-	6.1	120	-	1	1	6	3	6	3	3	1	2	1	4	3	1	-	1	-	-	-	-	1.86
56	44.0414	109.4075	2	12	-	0-W01244	07/08/77	12	24	13.0	-	-	6.3	250	-	1	1	6	4	6	2	2	2	3	4	3	2	1	-	1	-	-	-	-	2.23
56	44.0472	109.4189	2	12	-	0-W01245	07/08/77	12	24	10.0	-	-	5.9	90	-	1	1	6	3	6	3	3	1	2	1	4	3	1	-	1	-	-	-	-	1.67
56	44.0467	109.4308	2	12	-	0-W01246	07/08/77	12	24	11.0	-	-	6.1	80	-	1	1	6	4	6	4	3	1	2	1	4	4	1	-	1	-	-	-	-	1.66
56	44.0744	109.4447	2	12	-	0-W01247	07/08/77	12	26	13.0	-	-	6.3	260	-	1	1	6	4	6	2	3	1	3	3	3	2	1	-	1	-	-	-	-	2.75
56	44.0539	109.4917	2	12	-	0-W01248	07/08/77	13	24	12.0	-	-	6.1	250	-	1	1	6	4	6	2	2	1	2	1	2	3	1	-	1	-	-	-	-	3.25
56	44.0511	109.4933	2	12	-	0-W01249	07/08/77	13	24	12.0	-	-	6.3	250	-	1	1	6	4	6	2	2	1	2	1	2	3	1	-	1	-	-	-	-	2.30
56	44.0500	109.4883	2	12	-	0-W01250	07/08/77	13	24	12.0	-	-	6.3	260	-	1	1	6	4	6	2	3	1	2	1	3	2	1	-	1	-	-	-	-	2.36
56	44.0922	109.4594	2	12	-	0-W01251	07/08/77	14	25	10.0	-	-	5.9	90	-	1	1	6	3	6	4	3	2	2	1	4	4	1	-	1	-	-	-	-	1.59
56	44.0903	109.4631	2	12	-	0-W01252	07/08/77	14	26	9.0	-	-	6.1	95	-	1	1	6	4	6	3	2	1	2	3	5	3	1	-	1	-	-	-	-	1.48
56	44.1017	109.4306	2	12	-	0-W01253	07/08/77	15	24	8.0	-	-	6.1	120	-	1	1	6	4	6	5	2	2	1	2	1	3	3	1	-	1	-	-	-	-	1.77
56	44.1161	109.4303	2	12	-	0-W01254	07/08/77	15	23	11.0	-	-	5.9	85	-	1	1	6	3	6	3	3	1	2	3	3	3	1	-	1	-	-	-	-	1.78
56	44.1025	109.4003	2	12	-	0-W01255	07/08/77	15	24	11.0	-	-	5.9	90	-	1	1	6	4	6	3	3	1	2	1	3	3	1	-	1	-	-	-	-	1.57
56	44.1044	109.3964	2	12	-	0-W01256	07/08/77	15	22	10.0	-	-	5.9	85	-	1	1	6	4	6	3	2	1	2	1	3	2	1	-	1	-	-	-	-	1.54
56	44.1392	109.3725	2	12	-	0-W01257	07/08/77	16	24	12.0	-	-	6.3	220	-	1	1	6	4	6	5	2	2	1	2	3	3	2	1	-	1	-	-	-	-	2.39
56	44.1644	109.3869	2	12	-	0-W01258	07/08/77	17	20	9.0	-	-	6.3	260	-	1	1	6	4	6	5	3	2	1	4	3	3	1	-	1	-	-	-	-	2.38
56	44.1631	109.3894	2	12	-	0-W01259	07/08/77	17	20	10.0	-	-	6.3	260	-	1	1	6	4	6	5	2	2	1	2	4	3	3	1	-	1	-	-	-	-	2.44
56	44.1158	109.3494	2	12	-	0-W01260	07/08/77	18	18	11.0	-	-	6.3	260	-	1	1	6	4	6	2	3	1	2	2	4	3	1	-	1	-	-	-	-	2.59
56	44.0883	109.4042	2	12	-	0-W01261	07/08/77	9	16	9.0	-	-	6.3	250	-	1	1	6	4	6	3	2	1	2	2	3	3	2	1	-	1	-	-	-	-	2.50
56	44.0703	109.4133	2	12	-	0-W01262	07/08/77	9	16	10.0	-	-	5.9	90	-	1	1	6	3	6	3	2	1	2	1	4	3	1	-	1	-	-	-	-	1.49
56	44.0219	109.4469	2	12	-	0-W01263	07/08/77	10	18	10.0	-	-	6.1	120	-	1	1	6	3	6	2	3	1	2	1	3	3	1	-	1	-	-	-	-	1.59
56	44.0247	109.4292	2	12	-	0-W01264	07/08/77	10	19	11.0	-	-	5.9	100	-	1	1	6	4	6	3	4	1	2	2	3	1	1	-	1	-	-	-	-	1.47
56	44.0025	109.4089	2	12	-	0-W01265	07/08/77	11	17	7.0	-	-	6.1	140	-	1	1	6	3	6	3	3	1	2	1	4	3	1	-	1	-	-	-	-	1.72
56	44.3631	109.8736	2	12	-	0-W01266	07/27/77	11	19	12.0	-	-	5.5	60	-	1	3	6	4	6	3	3	1	2	1	3	3	1	-	1	-	-	-	-	4.50
56	44.3611	109.8739	2	12	-	0-W01267	07/27/77	11	19	12.0	-	-	5.5	60	-	1	3	6	3	6	3	3	1	2	1	3	3	1	-	1	-	-	-	-	3.40
56	44.3533	109.8700	2	12	-	0-W01268	07/27/77	11	19	12.0	-	-	5.5	50	-	1	3	6	3	6	3	3	1	2	1	3	3	1	-	1	-	-	-	-	3.00
56	44.3611	109.6944	2	12	-	0-W01269	07/27/77	11	19	12.0	-	-	5.7	90	-	1	2	6	4	8	3	2	1	2	1	3	3	1	-	1	-	-	-	-	4.00
56	44.3653	109.6908	2	12	-	0-W01270	07/27/77	12	19	10.0	-	-	5.5	50	-	1	1	6	3	6	2	3	1	2	1	3	4	1	-	1	-	-	-	-	3.20
56	44.3514	109.7389	2	15	-	0-W01271	07/27/77	12	19	-	-	-	-	-	-	1	1	6	4	6	-	1	-	2	1	3	3	1	-	1	-	-	-	-	3.00

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.5786-109.4364-2-12-					0	-W01220	-5	-5	-5	31	-20	39	8	-10	-15	2	19
56-44.5994-109.4397-2-12-					0	-W01221	-5	-5	-5	43	-20	36	9	-10	-15	2	11
56-44.6047-109.4361-2-12-					0	-W01222	-5	-5	-5	30	-20	25	16	-10	-15	3	41
56-44.6119-109.4333-2-12-					0	-W01223	-5	-5	-5	32	-20	-15	16	-10	-15	2	30
56-44.6158-109.4314-2-12-					0	-W01224	-5	-5	-5	35	-20	58	13	-10	-15	2	25
56-44.6489-109.4264-2-12-					0	-W01225	-5	-5	-5	32	-20	-15	13	-10	-15	2	54
56-44.5117-109.4347-2-12-					0	-W01226	-5	-5	-5	25	-20	25	17	-10	-15	2	33
56-44.5119-109.4214-2-11-					0	-W01227	-5	-5	-5	54	-20	50	-5	-10	-15	2	15
56-44.5094-109.5131-2-12-					0	-W01228	-5	-5	-5	27	-20	38	12	-10	-15	2	29
56-44.5100-109.5172-2-12-					0	-W01229	-5	-5	-5	36	-20	31	11	-10	-15	2	17
56-44.4253-109.5050-2-12-					0	-W01230	-5	-5	-5	22	-20	16	7	-10	-15	2	30
56-44.4286-109.5269-2-12-					0	-W01231	-5	-5	-5	14	-20	33	13	-10	-15	2	32
56-44.4283-109.5289-2-12-					0	-W01232											
56-44.0267-109.2617-2-12-					0	-W01234	-5	-5	-5	24	-20	30	16	-10	-15	2	38
56-44.0172-109.2531-2-12-					0	-W01235	-5	5	-5	26	-20	55	5	-10	-15	2	40
56-44.0061-109.2519-2-12-					0	-W01236	-5	-5	-5	27	-20	31	8	-10	-15	2	23
56-44.0458-109.2575-2-12-					0	-W01237	-5	-5	-5	28	-20	42	13	-10	-15	2	21
56-44.0431-109.2597-2-12-					0	-W01238	-5	-5	-5	26	-20	-15	26	-10	-15	2	32
56-44.0486-109.3436-2-12-					0	-W01239	-5	-5	-5	27	-20	27	18	-10	-15	2	25
56-44.0183-109.3392-2-12-					0	-W01240	-5	-5	-5	29	-20	34	11	-10	-15	2	24
56-44.0186-109.3433-2-12-					0	-W01241	-5	-5	-5	24	-20	41	13	-10	-15	2	26
56-44.0036-109.3428-2-12-					0	-W01242	-5	-5	-5	31	-20	29	9	-10	-15	2	28
56-44.0028-109.3472-2-12-					0	-W01243	-5	-5	-5	26	-20	40	17	-10	-15	2	19
56-44.0414-109.4075-2-12-					0	-W01244	-5	-5	-5	24	-20	40	6	-10	-15	2	24
56-44.0472-109.4189-2-12-					0	-W01245	-5	-5	-5	21	-20	58	9	-10	-15	2	25
56-44.0467-109.4308-2-12-					0	-W01246	-5	-5	-5	27	-20	51	-5	-10	-15	2	27
56-44.0744-109.4447-2-12-					0	-W01247	-5	-5	-5	24	-20	27	13	-10	-15	2	24
56-44.0539-109.4917-2-12-					0	-W01248	-5	-5	-5	29	-20	18	8	-10	-15	2	20
56-44.0511-109.4933-2-12-					0	-W01249	-5	-5	-5	22	-20	19	17	-10	-15	2	13
56-44.0500-109.4983-2-12-					0	-W01250	-5	-5	-5	16	-20	19	10	-10	-15	2	29
56-44.0922-109.4594-2-12-					0	-W01251	-5	-5	-5	27	-20	89	14	-10	-15	2	22
56-44.0903-109.4631-2-12-					0	-W01252	-5	-5	-5	23	-20	62	8	-10	-15	1	15
56-44.1017-109.4306-2-12-					0	-W01253	-5	-5	-5	34	-20	38	16	-10	-15	2	17
56-44.1161-109.4303-2-12-					0	-W01254	-5	-5	-5	23	-20	54	12	-10	-15	2	18
56-44.1025-109.4003-2-12-					0	-W01255	-5	-5	-5	30	-20	51	14	-10	-15	2	21
56-44.1044-109.3964-2-12-					0	-W01256	-5	-5	-5	27	-20	59	10	-10	-15	2	16
56-44.1392-109.3725-2-12-					0	-W01257	-5	-5	-5	25	-20	18	8	-10	-15	2	25
56-44.1544-109.3869-2-12-					0	-W01258	-5	-5	-5	25	-20	-15	7	-10	-15	2	22
56-44.1631-109.3894-2-12-					0	-W01259	-5	-5	-5	25	-20	25	9	-10	-15	2	26
56-44.1158-109.3494-2-12-					0	-W01260	-5	-5	-5	20	-20	20	12	-10	-15	2	29
56-44.0883-109.4042-2-12-					0	-W01261	-5	-5	-5	24	-20	34	16	-10	-15	2	25
56-44.0703-109.4133-2-12-					0	-W01262	-5	-5	-5	20	-20	64	14	-10	-15	1	24
56-44.0219-109.4469-2-12-					0	-W01263	-5	-5	-5	42	-20	44	9	-10	-15	1	11
56-44.0247-109.4292-2-12-					0	-W01264	-5	-5	-5	13	-20	77	16	-10	-15	2	18
56-44.0025-109.4089-2-12-					0	-W01265	-5	-5	-5	32	-20	62	17	-10	-15	2	29
56-44.3631-109.8736-2-12-					0	-W01266	-5	-5	-5	-10	-20	16	8	-10	-15	2	20
56-44.3611-109.8739-2-12-					0	-W01267	-5	-5	-5	18	-20	17	12	-10	-15	2	18
56-44.3533-109.8700-2-12-					0	-W01268	-5	-5	-5	19	-20	19	15	-10	-15	2	24
56-44.3611-109.6944-2-12-					0	-W01269	-5	-5	-5	34	-20	22	9	-10	-15	2	28
56-44.3653-109.6909-2-12-					0	-W01270	-5	-5	-5	20	-20	28	7	-10	-15	2	28
56-44.3514-109.7389-2-15-					0	-W01271	-5	-5	-5	29	-20	22	16	-10	-15	2	32

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Concentrations reported in weight parts per million (ppm)													
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.5786-	109.4364-	2-	12-	0-	W01220	81600	-0.10	1259	46630	83	-122	30.5	252	-2.6	3	1.3	62040	5.3	14220	43	0.2
56-	44.5994-	109.4397-	2-	12-	0-	W01221	79040	-0.07	946	53370	52	-142	27.1	138	-1.9	2	1.9	65570	3.3	12300	26	-0.1
56-	44.6047-	109.4361-	2-	12-	0-	W01222	74310	-0.07	835	31950	68	-124	16.3	105	-1.8	4	1.9	38210	9.5	14210	32	0.3
56-	44.6119-	109.4333-	2-	12-	0-	W01223	75750	-0.08	1026	38900	71	-117	19.7	156	-2.1	4	1.8	55910	7.3	14570	39	0.2
56-	44.6158-	109.4314-	2-	12-	0-	W01224	81950	-0.09	1295	40120	93	-116	24.2	219	-2.2	3	1.3	50450	5.7	16410	53	0.3
56-	44.6489-	109.4254-	2-	12-	0-	W01225	63490	-0.05	692	48190	72	-116	10.0	45	5.1	4	1.5	29090	5.7	24190	31	0.3
56-	44.5117-	109.4347-	2-	12-	0-	W01226	67800	-0.07	897	22950	85	-127	11.8	94	-1.7	5	1.8	29860	11.6	19750	42	0.4
56-	44.5119-	109.4214-	2-	11-	0-	W01227	83660	-0.09	1321	53260	61	-124	25.0	200	-2.3	2	1.8	54060	2.7	12460	31	-0.1
56-	44.5094-	109.5131-	2-	12-	0-	W01228	77370	-0.10	1137	41720	104	-115	23.1	180	2.6	4	2.3	57980	12.3	13170	57	0.4
56-	44.5100-	109.5172-	2-	12-	0-	W01229	79760	-0.07	946	47380	62	-135	27.9	208	-1.8	3	1.9	72680	3.4	13890	32	0.2
56-	44.4253-	109.5050-	2-	12-	0-	W01230	72840	-0.06	739	21210	113	-119	10.1	80	-1.5	6	2.0	30640	21.4	16620	57	0.3
56-	44.4286-	109.5269-	2-	12-	0-	W01231	73010	-0.09	966	34810	109	-120	16.3	177	-2.1	5	2.1	45930	20.1	16050	48	0.4
56-	44.4283-	109.5289-	2-	12-	0-	W01232	69380	-0.09	1092	42070	123	-101	32.2	113	-2.3	5	2.6	86350	14.8	11630	65	0.4
56-	44.0267-	109.2617-	2-	12-	0-	W01234	75630	-0.17	1171	34780	96	-105	15.2	127	1.9	3	1.5	38960	5.4	14610	49	0.4
56-	44.0172-	109.2531-	2-	12-	0-	W01235	75530	-0.07	1140	39950	74	-125	22.6	207	-1.8	3	1.0	48730	4.0	14840	42	0.2
56-	44.0061-	109.2519-	2-	12-	0-	W01236	75670	-0.07	1055	28940	94	-114	12.3	112	-1.8	4	1.9	34850	11.9	17850	43	0.3
56-	44.0458-	109.2575-	2-	12-	0-	W01237	70460	-0.09	1006	33550	95	-103	18.3	166	-2.1	4	1.3	46360	11.8	12760	50	0.3
56-	44.0431-	109.2597-	2-	12-	0-	W01238	72120	-0.06	1443	28040	96	-130	14.8	115	1.7	3	2.1	38150	11.4	15010	42	0.3
56-	44.0486-	109.3436-	2-	12-	0-	W01239	71840	-0.07	1044	37530	71	-120	15.6	135	-1.7	3	1.1	36220	9.1	15550	44	0.3
56-	44.0183-	109.3392-	2-	12-	0-	W01240	81150	-0.68	1225	47200	78	-114	20.4	230	-1.9	2	1.7	52040	4.9	12600	-113	-0.2
56-	44.0186-	109.3433-	2-	12-	0-	W01241	78170	-0.72	1344	42720	109	-103	29.5	258	-2.0	3	1.9	65980	5.9	15290	-131	-0.2
56-	44.0036-	109.3428-	2-	12-	0-	W01242	81100	-0.57	1280	40890	81	-119	22.6	222	-1.7	3	1.7	52390	5.2	15110	-114	-0.2
56-	44.0028-	109.3472-	2-	12-	0-	W01243	83250	-0.52	1376	40960	68	-122	17.4	159	-1.5	2	1.6	40490	3.9	14440	-111	-0.2
56-	44.0414-	109.4075-	2-	12-	0-	W01244	79610	-0.53	1183	33390	63	-100	11.2	113	-1.4	3	1.4	27470	5.9	16170	-94	0.6
56-	44.0472-	109.4189-	2-	12-	0-	W01245	80450	-0.65	1251	40410	98	-102	25.2	207	-1.8	2	2.0	48510	4.5	12270	-122	-0.2
56-	44.0467-	109.4308-	2-	12-	0-	W01246	85420	-0.57	1422	41530	100	-123	22.4	223	-1.6	2	2.0	45210	4.3	13150	-112	-0.2
56-	44.0744-	109.4447-	2-	12-	0-	W01247	71990	-0.48	1245	29130	61	-105	12.7	131	1.5	4	1.5	30030	9.9	14440	-101	0.3
56-	44.0539-	109.4917-	2-	12-	0-	W01248	71370	-0.54	828	22680	135	-101	11.0	81	2.7	5	2.0	34530	21.9	16650	-95	0.5
56-	44.0511-	109.4933-	2-	12-	0-	W01249	72440	-0.64	1224	33180	78	-95	17.0	182	-1.7	3	2.0	41650	11.0	13900	-123	-0.2
56-	44.0500-	109.4883-	2-	12-	0-	W01250	69860	-0.48	1163	30260	67	-101	13.4	138	-1.4	4	1.5	31570	9.0	14270	-98	-0.2
56-	44.0922-	109.4594-	2-	12-	0-	W01251	82830	-0.56	1317	43690	87	-123	20.4	218	-1.6	2	1.7	43530	3.5	13670	-122	-0.2
56-	44.0903-	109.4631-	2-	12-	0-	W01252	76500	-0.63	1122	44910	102	-107	23.1	271	-1.8	2	1.8	47230	4.0	13290	-102	0.4
56-	44.1017-	109.4306-	2-	12-	0-	W01253	83710	-0.71	1197	42830	87	-110	26.0	228	-2.0	2	2.0	60060	5.7	16010	-137	-0.2
56-	44.1161-	109.4303-	2-	12-	0-	W01254	82650	-0.55	1376	36690	85	-120	22.2	183	-1.6	2	1.6	40630	4.4	14970	-109	-0.2
56-	44.1025-	109.4003-	2-	12-	0-	W01255	83950	-0.55	1241	40780	95	-123	20.5	203	-1.6	-1	1.7	42180	3.4	11680	-98	0.5
56-	44.1044-	109.3964-	2-	12-	0-	W01256	79720	-0.63	1243	45170	98	-109	20.0	215	-1.7	2	1.6	42630	3.4	13350	-99	-0.2
56-	44.1392-	109.3725-	2-	12-	0-	W01257	73700	-0.61	1225	31440	73	-93	15.9	154	-1.7	3	1.9	37110	9.3	16530	-114	0.4
56-	44.1644-	109.3869-	2-	12-	0-	W01258	72250	-0.50	1250	26740	66	-105	12.0	127	-1.4	4	1.7	29530	8.2	14960	-109	-0.2
56-	44.1631-	109.3894-	2-	12-	0-	W01259	73250	-0.48	1216	28810	63	-106	11.2	101	2.3	4	1.6	27900	6.7	14470	-95	0.3
56-	44.1158-	109.3494-	2-	12-	0-	W01260	72780	-0.57	1225	28870	77	-99	10.9	114	-1.5	3	1.6	28940	8.5	14380	-112	0.3
56-	44.0883-	109.4042-	2-	12-	0-	W01261	70450	-0.60	1132	29560	74	-90	14.3	167	2.5	3	2.0	38240	10.0	14380	-111	0.7
56-	44.0703-	109.4133-	2-	12-	0-	W01262	91940	-0.58	1303	40750	92	-119	23.4	267	-1.7	3	1.8	50010	4.3	13170	-117	-0.2
56-	44.0219-	109.4469-	2-	12-	0-	W01263	78200	-0.59	1152	45270	64	-120	22.8	188	-1.7	2	1.2	51800	4.0	11480	-109	-0.2
56-	44.0247-	109.4292-	2-	12-	0-	W01264	78340	-0.64	1225	48080	97	-109	21.8	266	-1.7	2	1.7	45260	3.1	15850	-108	-0.2
56-	44.0025-	109.4089-	2-	12-	0-	W01265	80550	-0.72	1329	42160	97	-104	28.7	294	-2.0	-1	2.0	58720	4.4	13480	-126	-0.2
56-	44.3531-	109.8736-	2-	12-	0-	W01266	79320	-0.18	504	35770	155	385	9.4	45	-1.7	9	3.0	35130	40.8	9104	63	0.6
56-	44.3611-	109.8739-	2-	12-	0-	W01267	75590	-0.21	948	37190	151	242	20.6	160	-1.9	5	3.0	57290	37.1	11030	87	0.3
56-	44.3533-	109.8700-	2-	12-	0-	W01268	70640	-0.15	784	26360	131	-109	13.2	101	2.7	5	2.3	37880	18.7	17280	75	0.4
56-	44.3611-	109.6944-	2-	12-	0-	W01269	60530	-0.20	605	20550	141	-133	14.5	71	-1.9	7	2.5	47480	22.3	13010	82	0.3
56-	44.3653-	109.6908-	2-	12-	0-	W01270	71470	-0.17	900	34920	100	178	14.0	104	-1.5	5	2.0	35840	21.2	11620	65	0.3
56-	44.3514-	109.7389-	2-	15-	0-	W01271	70610	-0.18	807	22590	111	-92	13.6	81	4.9	5	2.0	34670	16.9	16540	57	0.3

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

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB. SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)													
							Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.5786-109.4364-2-12-						0-W01220	50910	735	22350	-41	-2	21.7	5.9	1131	-2	-1	7.5	5018	173	-2.0	166	0.225
56-44.5994-109.4397-2-12-						0-W01221	41300	1030	21750	-28	-2	25.3	5.2	1530	-1	-1	2.3	6589	296	-1.4	118	0.357
56-44.6047-109.4361-2-12-						0-W01222	23380	558	24040	-28	-2	14.6	5.9	718	-1	-1	8.4	4536	136	3.5	50	0.344
56-44.6119-109.4333-2-12-						0-W01223	36320	795	21410	-31	-2	15.9	5.6	874	-1	-1	8.7	5934	211	-1.8	-19	0.259
56-44.6158-109.4314-2-12-						0-W01224	41820	547	24570	-37	-2	17.4	6.2	1109	-1	-1	10.3	5236	139	-1.6	131	0.174
56-44.6489-109.4264-2-12-						0-W01225	40480	664	12230	-21	-1	9.1	6.5	700	-1	-1	9.6	3396	72	-1.0	78	0.267
56-44.5117-109.4347-2-12-						0-W01226	23390	550	18340	60	-2	9.4	6.8	732	-1	-1	13.6	3747	79	3.0	85	0.209
56-44.5119-109.4214-2-11-						0-W01227	63740	890	22570	-34	-2	20.8	4.9	965	-1	-1	4.3	4467	208	-1.7	-37	0.284
56-44.5094-109.5131-2-12-						0-W01228	37210	718	20810	-40	-2	18.7	7.4	870	-1	-1	13.9	5103	150	-1.9	154	0.178
56-44.5100-109.5172-2-12-						0-W01229	47370	985	21560	-26	-2	22.7	5.9	1012	-1	-1	5.3	6065	253	-1.2	139	0.225
56-44.4253-109.5050-2-12-						0-W01230	14590	503	21110	42	-1	9.5	8.2	-271	-1	-1	19.7	4339	78	3.5	90	0.176
56-44.4286-109.5269-2-12-						0-W01231	30010	665	20350	-33	-2	13.4	8.2	-356	-1	-1	19.9	5900	179	3.0	-38	0.164
56-44.4283-109.5289-2-12-						0-W01232	39200	972	16590	75	-2	21.2	9.3	1047	-1	-1	16.2	8769	215	5.7	170	0.174
56-44.0267-109.2617-2-12-						0-W01234	27680	612	21610	-27	-4	12.6	5.3	872	-1	-1	8.2	4232	145	-2.2	97	0.268
56-44.0172-109.2531-2-12-						0-W01235	40000	718	21910	-30	-2	16.5	5.1	1277	-1	-1	6.9	5052	164	-1.3	43	0.255
56-44.0161-109.2519-2-12-						0-W01236	25980	600	21330	54	-2	11.1	7.4	659	-1	-1	13.4	3981	109	3.7	-26	0.196
56-44.0458-109.2575-2-12-						0-W01237	30380	580	19520	-34	-2	15.1	7.1	705	-1	-1	14.7	4713	124	-1.6	175	0.180
56-44.0431-109.2597-2-12-						0-W01238	33140	573	21270	-23	-1	12.4	7.9	-309	-1	-1	11.1	4290	111	-1.1	56	0.268
56-44.0486-109.3436-2-12-						0-W01239	33560	578	19870	-29	-2	12.3	5.5	732	-1	-1	10.1	3995	119	1.8	96	0.248
56-44.0183-109.3392-2-12-						0-W01240	39150	734	23380	-38	-16	17.1	-9.4	1037	-1	-1	5.8	5580	191	-5.9	86	0.302
56-44.0186-109.3433-2-12-						0-W01241	39400	699	21330	-45	-17	20.7	-9.9	988	-1	-1	10.6	5076	167	-6.3	182	0.167
56-44.0036-109.3428-2-12-						0-W01242	34310	685	22350	-37	-14	17.3	-7.8	882	-1	-1	6.6	5000	162	-4.9	96	0.270
56-44.0028-109.3472-2-12-						0-W01243	30760	635	23250	-34	-13	14.1	-7.8	1255	-1	-1	6.9	3961	134	-4.8	145	0.270
56-44.0414-109.4075-2-12-						0-W01244	20040	467	20100	44	-13	10.1	-8.0	799	-1	-1	7.0	3468	85	-4.4	65	0.319
56-44.0472-109.4189-2-12-						0-W01245	37740	582	23770	86	-15	17.2	-9.3	1221	-1	-1	7.7	3703	112	-5.8	-33	0.217
56-44.0457-109.4308-2-12-						0-W01246	40360	619	24110	-39	-14	15.8	-7.8	1248	-1	-1	6.8	4223	125	-4.9	107	0.244
56-44.0744-109.4447-2-12-						0-W01247	22210	473	18110	-31	-11	10.5	-7.6	643	-1	-1	9.2	3479	87	7.7	95	0.299
56-44.0539-109.4917-2-12-						0-W01248	20770	548	21500	-29	-12	10.2	20.0	705	-1	-1	18.3	4778	76	10.1	130	0.178
56-44.0511-109.4933-2-12-						0-W01249	25410	515	19550	-39	-15	15.6	-9.7	974	-1	-1	8.7	3938	118	-5.6	-34	0.264
56-44.0500-109.4883-2-12-						0-W01250	24330	459	19540	-30	-12	11.9	-7.1	958	-1	-1	6.3	3810	94	-4.3	59	0.347
56-44.0922-109.4594-2-12-						0-W01251	41170	623	24450	-35	-14	15.0	-8.2	1007	-1	-1	6.3	3561	123	-4.8	79	0.252
56-44.0903-109.4631-2-12-						0-W01252	47850	594	23350	-36	-15	17.7	-8.9	1006	-1	-1	6.2	4117	141	-5.6	150	0.239
56-44.1017-109.4306-2-12-						0-W01253	37610	797	23750	-42	-17	20.0	-9.9	988	-1	-1	8.5	4247	161	-6.2	-44	0.208
56-44.1161-109.4303-2-12-						0-W01254	40060	577	22990	-34	-13	13.5	-7.4	1021	-1	-1	6.9	4166	114	-4.8	90	0.258
56-44.1025-109.4003-2-12-						0-W01255	41650	620	24120	-35	-13	15.1	-8.0	982	-1	-1	6.9	3976	121	-4.9	115	0.228
56-44.1044-109.3964-2-12-						0-W01256	38370	523	23940	-34	-15	15.7	-8.5	955	-1	-1	6.3	4119	128	-5.4	72	0.244
56-44.1392-109.3725-2-12-						0-W01257	20680	487	19500	-35	-14	13.9	-9.0	920	-1	-1	9.3	3618	92	-5.4	-30	0.257
56-44.1644-109.3869-2-12-						0-W01258	20660	444	18500	-31	-12	10.7	-7.3	848	-1	-1	7.3	3683	90	-4.4	60	0.326
56-44.1631-109.3894-2-12-						0-W01259	20450	463	18580	-30	-12	9.7	-7.5	941	-1	-1	8.3	3568	85	-4.2	98	0.294
56-44.1158-109.3494-2-12-						0-W01260	20860	490	18140	62	-13	10.0	-8.6	844	-1	-1	7.8	3491	92	6.8	-104	0.332
56-44.0883-109.4042-2-12-						0-W01261	21560	462	19260	57	-14	13.5	-9.3	684	-1	-1	9.5	3928	92	-5.0	-32	0.263
56-44.0703-109.4133-2-12-						0-W01262	47490	565	23590	-36	-14	18.1	-7.9	1146	-1	-1	6.6	4530	147	-5.0	51	0.226
56-44.0219-109.4469-2-12-						0-W01263	49330	780	21380	-37	-14	17.6	-8.4	1172	-1	-1	6.0	4215	175	-5.1	103	0.265
56-44.0247-109.4292-2-12-						0-W01264	49880	672	23320	-34	-15	17.1	-8.9	1116	-1	-1	6.7	4699	136	-5.5	-35	0.219
56-44.0025-109.4089-2-12-						0-W01265	46010	761	23370	-43	-17	22.1	-9.9	-294	-1	-1	9.9	5124	146	-6.3	-42	0.174
56-44.3531-109.8736-2-12-						0-W01266	16650	735	30950	-28	-4	12.8	15.9	539	-1	-1	19.5	9072	97	6.5	99	0.231
56-44.3611-109.8739-2-12-						0-W01267	29330	303	23860	-36	-5	18.6	13.0	1058	-1	-1	23.4	7321	119	6.5	145	0.145
56-44.3533-109.8700-2-12-						0-W01268	23390	576	20140	61	-4	12.0	10.3	538	-1	-1	20.0	4814	82	4.2	93	0.150
56-44.3611-109.6944-2-12-						0-W01269	10560	814	16920	-39	-5	10.8	13.8	-358	-2	-1	16.4	6110	95	4.6	158	0.244
56-44.3553-109.6908-2-12-						0-W01270	26350	533	22480	-26	-4	12.0	10.4	887	-1	-1	12.6	5882	98	5.0	63	0.254
56-44.3514-109.7389-2-15-						0-W01271	21770	556	18520	-30	-4	11.4	8.9	712	-1	-1	16.8	4031	75	5.0	137	0.179

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU,ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.3494-109.6944-2-12-						0-W01272-07/27/77-12-	19-	10.0-	-	-	-	6.1-	240-		1-1-6-4-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	2.30
56-44.3489-109.6969-2-12-						0-W01273-07/27/77-12-	19-	11.0-	-	-	-	5.7-	115-		1-1-6-3-6-4-3-1-2-1-4-3-1-	-1-	-	-	-	2.00
56-44.3428-109.7025-2-12-						0-W01274-07/27/77-13-	19-	10.0-	-	-	-	5.7-	115-		1-1-6-3-8-3-2-1-2-1-3-3-1-	-1-	-	-	-	3.00
56-44.3386-109.7009-2-12-						0-W01275-07/27/77-13-	19-	12.0-	-	-	-	6.3-	240-		1-1-6-3-6-3-2-1-2-1-2-3-1-	-1-	-	-	-	2.20
56-44.3472-109.9111-2-12-						0-W01276-07/27/77-11-	18-	12.0-	-	-	-	5.5-	50-		1-3-7-3-7-3-3-1-2-1-3-3-1-	-1-	-	-	-	2.90
56-44.3456-109.9117-2-15-						0-W01277-07/27/77-11-	18-	-	-	-	-	-	-		1-3-7-4-1-	-	-	-	-	-1-3-3-1-	-1-	-	-	-	2.90
56-44.3294-109.8789-2-12-						0-W01278-07/27/77-12-	22-	12.0-	-	-	-	5.7-	90-		1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	2.40
56-44.3253-109.8778-2-12-						0-W01279-07/27/77-12-	22-	12.0-	-	-	-	5.7-	90-		1-3-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	2.80
56-44.3167-109.7178-2-12-						0-W01280-07/27/77-16-	19-	13.0-	-	-	-	6.1-	250-		1-1-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	2.30
56-44.3078-109.7231-2-12-						0-W01281-07/27/77-16-	19-	13.0-	-	-	-	5.8-	115-		1-1-6-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	3.40
56-44.3086-109.7161-2-12-						0-W01282-07/27/77-14-	17-	11.0-	-	-	-	6.1-	250-		1-1-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	2.30
56-44.3078-109.7178-2-12-						0-W01283-07/27/77-17-	16-	11.0-	-	-	-	6.1-	250-		1-1-6-4-6-3-2-1-2-1-3-2-1-	-1-	-	-	-	2.40
56-44.2864-109.7272-2-12-						0-W01284-07/27/77-17-	16-	10.0-	-	-	-	5.7-	250-		1-1-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	3.00
56-44.2781-109.7458-2-12-						0-W01285-07/27/77-17-	16-	11.0-	-	-	-	5.5-	50-		1-1-6-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	3.00
56-44.2772-109.7442-2-12-						0-W01286-07/27/77-18-	15-	10.0-	-	-	-	5.5-	50-		1-1-6-4-6-3-2-1-2-1-3-4-1-	-1-	-	-	-	4.50
56-44.9728-109.7292-2-12-						0-W01287-07/31/77- 8-	14-	9.0-	-	-	-	6.5-	320-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	2.80
56-44.9744-109.7319-2-12-						0-W01288-07/31/77- 8-	14-	9.0-	-	-	-	6.3-	300-		1-3-1-3-6-3-2-1-3-1-3-3-1-	-1-	-	-	-	2.80
56-44.9919-109.7372-2-12-						0-W01289-07/31/77- 8-	14-	11.0-	-	-	-	5.9-	25-		1-3-1-3-6-3-2-1-2-3-3-3-1-	-1-	-	-	-	3.00
56-44.9750-109.6353-2-15-						0-W01290-07/31/77- 9-	16-	-	-	-	-	-	-		1-3-1-3-6-	-1-	-2-1-2-3-1-	-1-	-	-	-	3.10
56-44.9750-109.6386-2-12-						0-W01291-07/31/77- 9-	16-	12.0-	-	-	-	5.9-	95-		1-3-1-4-6-4-3-1-2-1-3-4-1-	-1-	-	-	-	3.10
56-44.9856-109.6369-2-12-						0-W01292-07/31/77- 9-	16-	11.0-	-	-	-	5.9-	90-		1-3-1-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	3.00
56-44.9878-109.6431-2-12-						0-W01293-07/31/77- 9-	15-	10.0-	-	-	-	5.9-	75-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	3.00
56-44.9539-109.5875-2-12-						0-W01294-07/31/77-10-	17-	10.0-	-	-	-	6.1-	210-		1-3-1-3-6-4-2-1-2-1-3-4-1-	-1-	-	-	-	2.90
56-44.9683-109.5939-2-12-						0-W01295-07/31/77-10-	18-	10.0-	-	-	-	6.5-	320-		1-3-1-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	2.70
56-44.9681-109.5986-2-12-						0-W01296-07/31/77-10-	17-	11.0-	-	-	-	6.5-	290-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	2.70
56-44.9800-109.5892-2-12-						0-W01297-07/31/77-10-	17-	12.0-	-	-	-	6.1-	210-		1-3-1-3-6-3-2-1-2-3-3-3-1-	-1-	-	-	-	2.80
56-44.9683-109.5578-2-12-						0-W01298-07/31/77-11-	16-	11.0-	-	-	-	5.7-	90-		1-3-1-3-6-3-2-1-2-1-4-4-1-	-1-	-	-	-	3.40
56-44.9569-109.5497-2-12-						0-W01299-07/31/77-11-	15-	12.0-	-	-	-	6.1-	200-		1-3-1-4-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	3.00
56-44.9606-109.5386-2-12-						0-W01300-07/31/77-11-	18-	10.0-	-	-	-	6.1-	210-		1-3-1-3-6-3-2-1-2-3-2-3-1-	-1-	-	-	-	2.80
56-44.9328-109.5086-2-12-						0-W01301-07/31/77-12-	13-	12.0-	-	-	-	5.7-	80-		1-3-1-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	2.90
56-44.9297-109.5042-2-12-						0-W01302-07/31/77-12-	16-	12.0-	-	-	-	5.7-	95-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	7.20
56-44.9947-109.4981-2-12-						0-W01303-07/31/77-13-	18-	11.0-	-	-	-	6.3-	190-		1-3-1-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	3.50
56-44.9922-109.4933-2-12-						0-W01304-07/31/77-13-	16-	12.0-	-	-	-	6.3-	190-		1-3-1-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	9.70
56-44.9056-109.4836-2-12-						0-W01305-07/31/77-13-	15-	13.0-	-	-	-	5.7-	80-		1-3-1-3-6-3-2-1-2-1-4-4-1-	-1-	-	-	-	3.40
56-44.9081-109.4811-2-12-						0-W01306-07/31/77-13-	15-	12.0-	-	-	-	6.1-	90-		1-3-1-3-6-3-2-1-2-1-3-4-1-	-1-	-	-	-	3.20
56-44.9181-109.4653-2-12-						0-W01307-07/31/77-13-	16-	12.0-	-	-	-	5.7-	90-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	2.90
56-44.9208-109.4617-2-12-						0-W01308-07/31/77-13-	16-	11.0-	-	-	-	5.7-	80-		1-3-1-3-6-3-2-1-2-3-3-4-1-	-1-	-	-	-	3.70
56-44.9147-109.4394-2-12-						0-W01309-07/31/77-13-	14-	12.0-	-	-	-	5.7-	70-		1-3-1-3-6-3-2-1-2-2-3-4-1-	-1-	-	-	-	2.70
56-44.9583-109.4364-2-12-						0-W01310-07/31/77-14-	18-	12.0-	-	-	-	5.7-	80-		1-3-1-3-6-3-2-1-3-1-2-3-1-	-1-	-	-	-	3.30
56-44.9567-109.4408-2-12-						0-W01311-07/31/77-14-	16-	11.0-C-	-	-	-	5.7-	90-		1-3-1-3-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	2.80
56-44.9489-109.4589-2-12-						0-W01312-07/31/77-14-	18-	11.0-C-	-	-	-	5.7-	90-		1-3-1-3-6-3-3-2-1-2-1-4-3-1-	-1-	-	-	-	3.00
56-44.9383-109.4733-2-12-						0-W01313-07/31/77-14-	17-	11.0-C-	-	-	-	6.5-	310-		1-3-1-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	2.80
56-44.1233-109.9058-2-37-						0-W01314-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	0.60
56-44.1211-109.8839-2-37-						0-W01315-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	0.60
56-44.0694-109.8075-2-37-						0-W01316-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	1.12
56-44.0681-109.8089-2-37-						0-W01317-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	1.09
56-44.0708-109.8183-2-37-						0-W01318-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	1.08
56-44.0911-109.8344-2-37-						0-W01319-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	1.10
56-44.0914-109.8467-2-37-						0-W01320-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	1.26
56-44.1019-109.9228-2-37-						0-W01321-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	0.60
56-44.1872-109.9000-2-37-						0-W01322-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	0.60

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.3494-109.6944-2-12-						0-W01272	-5	-5	-5	17	-20	20	8	-10	-15	2	22
56-44.3489-109.6969-2-12-						0-W01273	-5	-5	-5	30	-20	32	14	-10	-15	2	17
56-44.3428-109.7025-2-12-						0-W01274	-5	-5	-5	27	-20	38	11	-10	-15	2	26
56-44.3386-109.7008-2-12-						0-W01275	-5	-5	-5	20	-20	16	13	-10	-15	2	24
56-44.3472-109.9111-2-12-						0-W01276	-5	-5	-5	23	-20	16	11	-10	-15	2	23
56-44.3456-109.9117-2-15-						0-W01277	-5	-5	-5	20	-20	19	13	-10	-15	2	25
56-44.3294-109.8789-2-12-						0-W01278	-5	-5	-5	21	-20	36	9	-10	-15	2	21
56-44.3253-109.8778-2-12-						0-W01279	-5	-5	-5	31	-20	26	16	-10	-15	2	26
56-44.3167-109.7178-2-12-						0-W01280	-5	-5	-5	26	-20	28	10	-10	-15	2	32
56-44.3078-109.7231-2-12-						0-W01281	-5	-5	-5	20	-20	17	10	-10	-15	2	21
56-44.3086-109.7161-2-12-						0-W01282	-5	-5	-5	17	-20	33	17	-10	-15	2	22
56-44.3078-109.7178-2-12-						0-W01283	-5	-5	-5	25	-20	19	7	-10	-15	2	25
56-44.2864-109.7272-2-12-						0-W01284	-5	-5	-5	19	-20	15	-5	-10	-15	2	20
56-44.2781-109.7458-2-12-						0-W01285	-5	-5	-5	29	-20	-15	16	-10	-15	2	20
56-44.2772-109.7442-2-12-						0-W01286	-5	-5	-5	10	-20	-15	8	-10	-15	2	22
56-44.9728-109.7292-2-12-						0-W01287	-5	-5	-5	22	-20	20	14	-10	-15	2	36
56-44.9744-109.7319-2-12-						0-W01288	-5	-5	-5	30	-20	22	21	-10	-15	2	31
56-44.9919-109.7372-2-12-						0-W01289	-5	-5	-5	14	-20	23	14	-10	-15	2	35
56-44.9750-109.6353-2-15-						0-W01290	-5	-5	-5	26	-20	17	16	-10	-15	2	27
56-44.9750-109.6386-2-12-						0-W01291	-5	-5	-5	27	-20	18	19	-10	-15	2	36
56-44.9856-109.6369-2-12-						0-W01292	-5	-5	-5	33	-20	-15	14	-10	-15	2	38
56-44.9878-109.6431-2-12-						0-W01293	-5	-5	-5	28	-20	-15	16	-10	-15	2	28
56-44.9539-109.5875-2-12-						0-W01294	-5	-5	-5	26	-20	46	10	-10	-15	2	33
56-44.9683-109.5939-2-12-						0-W01295	-5	-5	-5	20	-20	36	12	-10	-15	2	31
56-44.9581-109.5986-2-12-						0-W01296	-5	-5	-5	31	-20	18	11	-10	-15	2	37
56-44.9800-109.5892-2-12-						0-W01297	-5	-5	-5	39	-20	20	15	-10	-15	2	22
56-44.9683-109.5578-2-12-						0-W01298	-5	-5	-5	18	-20	37	44	-10	-15	2	29
56-44.9669-109.5497-2-12-						0-W01299	-5	-5	-5	23	-20	34	11	-10	-15	2	28
56-44.9606-109.5386-2-12-						0-W01300	-5	-5	-5	32	-20	47	17	-10	-15	2	22
56-44.9328-109.5086-2-12-						0-W01301	-5	-5	-5	20	-20	27	39	-10	-15	2	27
56-44.9297-109.5042-2-12-						0-W01302	-5	-5	-5	17	-20	17	6	-10	-15	1	13
56-44.9947-109.4981-2-12-						0-W01303	-5	-5	-5	17	-20	38	18	-10	-15	2	24
56-44.9922-109.4933-2-12-						0-W01304	-5	5	-5	-10	-20	16	9	-10	-15	2	29
56-44.9056-109.4936-2-12-						0-W01305	-5	-5	-5	22	-20	29	11	-10	-15	2	25
56-44.9081-109.4811-2-12-						0-W01306	-5	-5	-5	19	-20	-15	17	-10	-15	2	22
56-44.9181-109.4453-2-12-						0-W01307	-5	-5	-5	25	-20	-15	29	-10	-15	2	25
56-44.9208-109.4617-2-12-						0-W01308	-5	-5	-5	37	-20	56	56	-10	-15	2	28
56-44.9147-109.4394-2-12-						0-W01309	-5	-5	-5	21	-20	36	14	-10	-15	2	21
56-44.9583-109.4364-2-12-						0-W01310	-5	-5	-5	21	-20	-15	14	-10	-15	2	24
56-44.9567-109.4408-2-12-						0-W01311	-5	-5	-5	15	-20	33	20	-10	-15	2	23
56-44.9489-109.4589-2-12-						0-W01312	-5	-5	-5	23	-20	-15	20	-10	-15	2	24
56-44.9383-109.4733-2-12-						0-W01313	-5	-5	-5	31	-20	32	17	-10	-15	2	46
56-44.1233-109.9058-2-37-						0-W01314											
56-44.1211-109.8839-2-37-						0-W01315											
56-44.0694-109.8075-2-37-						0-W01316											
56-44.0681-109.8089-2-37-						0-W01317										2	16
56-44.0708-109.8183-2-37-						0-W01318											
56-44.0911-109.8344-2-37-						0-W01319										2	14
56-44.0914-109.8467-2-37-						0-W01320											
56-44.1019-109.9228-2-37-						0-W01321										2	11
56-44.1872-109.9000-2-37-						0-W01322										2	11

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.3494-	109.6944-2-	12-		0-	W01272	53540	-0.16	738	30320	69	-91	13.3	153	3.1	4	1.6	30500	7.2	16290	-15	0.4
56-	44.3489-	109.6969-2-	12-		0-	W01273	75020	-0.17	982	36820	92	-124	14.5	123	-1.6	4	1.8	37390	8.2	11790	43	0.2
56-	44.3428-	109.7025-2-	12-		0-	W01274	69240	-0.18	956	34780	87	-103	14.5	134	-1.6	4	1.7	33930	9.3	11510	48	0.5
56-	44.3386-	109.7008-2-	12-		0-	W01275	63890	-0.19	799	35470	70	-87	15.7	146	3.3	4	1.7	36190	8.2	16240	38	0.3
56-	44.3472-	109.9111-2-	12-		0-	W01276	70430	-0.15	922	23160	110	-107	13.0	88	2.7	5	2.1	33060	15.2	18790	54	0.4
56-	44.3456-	109.9117-2-	15-		0-	W01277	70290	-0.14	900	23200	113	-108	10.9	78	1.9	5	1.8	30050	14.0	19020	49	0.4
56-	44.3294-	109.8789-2-	12-		0-	W01278	74470	-0.19	1038	33070	122	-111	16.3	143	-1.7	4	1.9	40840	10.0	11170	40	0.3
56-	44.3253-	109.8778-2-	12-		0-	W01279	55140	-0.19	770	23640	99	-87	15.9	158	2.1	4	2.0	46840	15.3	13570	56	0.5
56-	44.3167-	109.7178-2-	12-		0-	W01280	60730	-0.17	786	36590	77	-93	16.0	166	3.7	4	1.5	36640	9.3	17150	41	0.3
56-	44.3078-	109.7231-2-	12-		0-	W01281	70440	-0.16	867	37040	108	-116	14.8	131	-1.6	5	2.2	38270	16.6	11930	69	0.3
56-	44.3086-	109.7161-2-	12-		0-	W01282	64460	-0.18	859	35320	58	-94	11.8	118	2.4	4	1.5	28990	6.4	16420	-16	0.3
56-	44.3078-	109.7178-2-	12-		0-	W01283	64180	-0.21	790	34150	82	-89	17.6	153	3.2	4	1.8	39410	9.5	16630	59	0.4
56-	44.2864-	109.7272-2-	12-		0-	W01284	56470	-0.16	714	27590	120	-101	13.6	117	-1.5	5	2.0	35490	18.9	11920	70	0.4
56-	44.2781-	109.7458-2-	12-		0-	W01285	68570	-0.14	858	25150	101	-108	11.6	90	2.6	5	1.9	31270	14.1	16760	43	0.3
56-	44.2772-	109.7442-2-	12-		0-	W01286	68900	-0.21	537	30150	140	332	10.5	42	-1.8	8	3.1	37640	38.7	10690	85	0.5
56-	44.9728-	109.7292-2-	12-		0-	W01287	57080	-0.21	1020	39540	102	-90	19.6	141	3.2	4	2.0	46460	15.0	18570	71	0.5
56-	44.9744-	109.7319-2-	12-		0-	W01288	67970	-0.19	892	48520	105	-100	16.6	112	4.9	5	2.0	43830	10.5	21470	58	0.6
56-	44.9919-	109.7372-2-	12-		0-	W01289	76900	-0.18	926	25220	67	-115	11.5	88	4.2	5	1.8	38220	10.3	18990	-21	0.4
56-	44.9750-	109.6353-2-	15-		0-	W01290	72220	-0.19	816	16050	63	177	10.0	60	3.6	4	1.3	28810	6.7	19760	39	0.3
56-	44.9750-	109.6386-2-	12-		0-	W01291	77190	-0.23	959	35340	81	-100	15.8	87	5.3	5	1.8	41400	10.2	19200	-24	0.4
56-	44.9856-	109.6369-2-	12-		0-	W01292	76360	-0.17	901	21640	71	200	12.0	85	4.7	4	1.8	38900	10.7	17660	-17	0.4
56-	44.9878-	109.6431-2-	12-		0-	W01293	79010	-0.17	941	24050	58	177	10.4	68	4.5	5	1.6	35010	9.7	20980	46	0.4
56-	44.9539-	109.5875-2-	12-		0-	W01294	56590	-0.19	910	29390	90	154	14.9	144	-1.7	4	1.6	37370	10.1	15810	-15	0.3
56-	44.9683-	109.5939-2-	12-		0-	W01295	64710	-0.21	906	41590	106	-93	17.7	144	2.7	4	2.1	47430	13.6	17740	36	0.4
56-	44.9681-	109.5986-2-	12-		0-	W01296	68820	-0.17	1022	32440	102	-103	15.6	130	3.0	5	2.1	41180	12.3	15960	46	0.5
56-	44.9800-	109.5892-2-	12-		0-	W01297	68970	-0.17	901	32250	90	-109	16.1	139	2.2	4	1.8	38080	13.1	14220	66	0.3
56-	44.9683-	109.5578-2-	12-		0-	W01298	57300	-0.19	719	29470	58	-92	16.5	162	2.3	4	1.3	38400	9.8	13100	-14	0.4
56-	44.9669-	109.5497-2-	12-		0-	W01299	67880	-0.23	852	30220	115	-100	21.9	196	-2.1	4	2.2	55040	14.1	16010	63	0.4
56-	44.9606-	109.5386-2-	12-		0-	W01300	64850	-0.18	943	28280	102	147	17.3	175	-1.7	-1	2.0	44390	12.3	16220	59	0.5
56-	44.9328-	109.5086-2-	12-		0-	W01301	60170	-0.14	774	25430	61	-110	17.5	115	-1.6	4	1.4	38260	7.0	13650	33	0.4
56-	44.9297-	109.5042-2-	12-		0-	W01302	32830	-0.15	252	24760	219	139	4.9	75	-1.3	10	2.1	27770	56.3	9147	98	0.9
56-	44.9947-	109.4981-2-	12-		0-	W01303	61580	-0.22	865	30250	119	-92	18.6	165	-1.9	5	2.0	49220	24.3	14880	65	0.6
56-	44.9922-	109.4933-2-	12-		0-	W01304	49730	-0.16	599	11540	170	-84	7.1	69	2.6	9	2.6	52210	105.8	20780	95	1.2
56-	44.9056-	109.4836-2-	12-		0-	W01305	58220	-0.16	792	24510	58	-107	15.2	114	2.6	4	1.5	37690	7.7	14350	38	0.4
56-	44.9081-	109.4811-2-	12-		0-	W01306	57190	-0.18	695	23400	57	-90	14.4	93	-1.5	3	1.3	34760	6.8	17430	49	0.3
56-	44.9181-	109.4653-2-	12-		0-	W01307	63740	-0.20	775	23080	72	-90	18.4	142	-1.9	4	1.8	45440	9.1	15790	38	0.6
56-	44.9208-	109.4617-2-	12-		0-	W01308	64330	-0.20	630	25830	85	-115	25.8	259	-1.9	5	1.7	57270	10.5	12520	56	0.4
56-	44.9147-	109.4394-2-	12-		0-	W01309	70170	-0.18	871	31820	94	-117	17.0	173	-1.7	4	1.8	42920	11.8	14190	54	0.3
56-	44.9583-	109.4364-2-	12-		0-	W01310	62040	-0.18	716	25110	78	-98	14.5	106	-1.6	4	1.4	36240	7.8	14580	30	0.4
56-	44.9567-	109.4408-2-	12-		0-	W01311	62870	-0.20	847	30190	97	-93	20.7	175	1.4	4	1.8	49560	13.7	13000	52	0.4
56-	44.9489-	109.4589-2-	12-		0-	W01312	53850	-0.16	847	22290	67	-102	17.9	142	-1.5	4	1.6	42990	7.4	11890	42	0.4
56-	44.9383-	109.4733-2-	12-		0-	W01313	67540	-0.17	849	37180	85	-101	14.8	102	3.3	6	1.7	37630	9.9	21510	51	0.6
56-	44.1233-	109.9058-2-	37-		0-	W01314	46880	-0.04	732	32730	34	-74	17.9	270	-1.2	1	0.5	26960	1.6	6785	18	-0.1
56-	44.1211-	109.8839-2-	37-		0-	W01315	47140	-0.05	614	33790	48	-68	18.5	295	-1.3	-1	0.9	27910	1.6	5710	16	-0.1
56-	44.0694-	109.8075-2-	37-		0-	W01316	85350	-0.06	1372	52990	29	-126	15.4	169	-1.5	2	0.9	22080	2.0	13410	20	-0.1
56-	44.0681-	109.8089-2-	37-		0-	W01317	83530	-0.06	988	50120	33	-113	15.9	212	-1.5	2	0.5	24350	1.8	10730	21	-0.1
56-	44.0708-	109.8183-2-	37-		0-	W01318	83460	-0.09	1159	48480	76	-112	23.0	310	-2.0	2	1.1	35660	3.0	16010	36	-0.1
56-	44.0911-	109.8344-2-	37-		0-	W01319	85180	-0.06	1260	50000	39	-109	16.0	195	-1.5	2	0.9	23730	1.9	14350	27	-0.1
56-	44.0914-	109.8467-2-	37-		0-	W01320	87080	-0.06	1370	44390	33	-124	13.6	124	-1.4	1	0.8	21360	2.1	11910	21	-0.1
56-	44.1019-	109.9228-2-	37-		0-	W01321	47070	-0.05	667	35940	42	-80	21.7	314	-1.2	1	0.6	31120	1.8	5629	24	-0.1
56-	44.1872-	109.9000-2-	37-		0-	W01322	48790	-0.04	819	32500	38	-73	18.6	252	-1.1	1	0.6	29110	1.8	4802	19	-0.1

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	44.3494-	109.6944-	2-	12-	0-	W01272	34410	516	11930	74	-4	10.9	5.8	524	-1	-1	8.4	3957	79	-2.0	143	0.274
56-	44.3489-	109.6969-	2-	12-	0-	W01273	31730	541	23190	-29	-4	11.4	6.7	893	-1	-1	9.0	4340	105	-2.7	-90	0.222
56-	44.3428-	109.7025-	2-	12-	0-	W01274	32540	571	19700	-27	-4	11.1	6.2	736	-1	-1	12.0	4627	109	-2.3	104	0.250
56-	44.3386-	109.7009-	2-	12-	0-	W01275	33480	557	12710	-32	-5	12.6	5.7	470	-1	-1	9.1	3353	88	-2.4	121	0.242
56-	44.3472-	109.9111-	2-	12-	0-	W01276	17410	565	19090	-27	-4	10.7	9.8	504	-1	-1	16.4	4352	75	5.2	120	0.177
56-	44.3456-	109.9117-	2-	15-	0-	W01277	21260	555	19670	45	-3	9.9	8.5	-252	-1	-1	14.8	3824	82	4.0	83	0.196
56-	44.3294-	109.8789-	2-	12-	0-	W01278	32140	642	21580	-30	-4	12.2	6.4	770	-1	-1	9.9	4996	122	3.4	65	0.242
56-	44.3253-	109.8778-	2-	12-	0-	W01279	28900	598	16130	63	-5	15.6	9.1	365	-1	-1	16.1	4120	131	4.2	120	0.174
56-	44.3167-	109.7178-	2-	12-	0-	W01280	36860	573	12310	53	-4	12.6	5.4	756	-1	-1	9.2	3623	90	-2.3	78	0.250
56-	44.3078-	109.7231-	2-	12-	0-	W01281	25290	602	20300	-29	-4	12.5	7.8	965	-1	-1	13.5	5207	107	-2.3	125	0.252
56-	44.3086-	109.7161-	2-	12-	0-	W01282	34430	555	13350	-27	-4	9.8	3.8	-298	-1	-1	7.6	3252	90	-2.3	107	0.303
56-	44.3078-	109.7178-	2-	12-	0-	W01283	33240	554	13290	-35	-5	13.7	7.3	339	-1	-1	10.5	3817	89	-2.9	98	0.229
56-	44.2864-	109.7272-	2-	12-	0-	W01284	24440	515	15520	-29	-4	11.0	8.9	442	-1	-1	16.5	4415	84	3.8	111	0.182
56-	44.2781-	109.7458-	2-	12-	0-	W01285	20230	543	19530	44	-3	10.3	7.8	575	-1	-1	14.4	4367	78	3.4	125	0.208
56-	44.2772-	109.7442-	2-	12-	0-	W01286	24150	732	25220	-32	-5	11.8	18.8	-350	-1	-1	22.6	8038	87	5.6	54	0.199
56-	44.9728-	109.7292-	2-	12-	0-	W01287	23120	717	13380	66	-5	14.1	8.3	536	-1	-1	15.5	4696	109	-2.7	154	0.181
56-	44.9744-	109.7319-	2-	12-	0-	W01288	21440	768	10770	70	-5	13.5	8.0	545	-1	-1	14.0	4527	91	4.6	254	0.200
56-	44.9919-	109.7372-	2-	12-	0-	W01289	20800	561	17160	88	-4	10.6	6.0	479	-1	-1	11.9	5289	97	-2.0	177	0.252
56-	44.9750-	109.6353-	2-	15-	0-	W01290	13820	744	15190	65	-4	9.5	4.5	-358	-1	-1	9.2	4119	78	3.6	62	0.337
56-	44.9750-	109.6386-	2-	12-	0-	W01291	17870	621	13450	121	-5	12.3	8.7	-317	-1	-1	13.2	5537	92	-2.9	192	0.235
56-	44.9856-	109.6369-	2-	12-	0-	W01292	15240	565	17410	75	-4	11.2	5.7	508	-1	-1	11.6	5393	86	-2.2	138	0.259
56-	44.9878-	109.6431-	2-	12-	0-	W01293	12470	554	17700	60	-4	10.5	5.8	-280	-1	-1	10.1	4783	86	-2.1	134	0.297
56-	44.9539-	109.5875-	2-	12-	0-	W01294	29630	799	14360	-30	-4	12.0	6.1	-325	-1	-1	11.3	3462	102	4.1	82	0.257
56-	44.9683-	109.5939-	2-	12-	0-	W01295	25500	687	14200	-35	-5	14.5	10.9	721	-1	-1	15.1	4822	103	-3.0	128	0.179
56-	44.9581-	109.5986-	2-	12-	0-	W01296	25850	559	13940	72	-4	12.7	10.7	600	-1	-1	14.1	4836	106	4.2	117	0.191
56-	44.9800-	109.5892-	2-	12-	0-	W01297	30040	621	17400	-31	-4	12.5	6.2	573	-1	-1	13.0	4563	101	4.3	165	0.215
56-	44.9683-	109.5578-	2-	12-	0-	W01298	27910	721	10940	-29	-4	12.3	5.0	-337	-1	-1	10.1	4782	122	-3.1		0.337
56-	44.9569-	109.5497-	2-	12-	0-	W01299	32070	684	14730	-39	-5	17.9	11.2	-335	-1	-1	18.0	4828	99	-3.7	107	0.167
56-	44.9606-	109.5386-	2-	12-	0-	W01300	31140	327	15150	67	-4	14.1	6.4	-305	-1	-1	13.0	4402	109	6.0	-112	0.215
56-	44.9328-	109.5086-	2-	12-	0-	W01301	24640	932	13570	-32	-4	11.3	6.1	-299	-1	-1	10.1	4036	95	3.7	136	0.287
56-	44.9297-	109.5042-	2-	12-	0-	W01302	14480	375	10230	-20	-3	9.1	17.4	373	-1	1	43.7	5930	77	10.0	57	0.165
56-	44.9947-	109.4981-	2-	12-	0-	W01303	29490	641	16220	-34	-5	14.7	9.1	572	-1	-1	20.6	5263	117	5.4	100	0.170
56-	44.9922-	109.4933-	2-	12-	0-	W01304	12840	592	9561	-29	-4	7.5	14.9	-245	2	-1	57.1	5780	89	12.5	73	0.170
56-	44.9056-	109.4836-	2-	12-	0-	W01305	24330	871	13380	57	-4	11.4	5.5	-304	-1	-1	9.7	3854	109	-2.0	116	0.351
56-	44.9081-	109.4811-	2-	12-	0-	W01306	20300	941	13120	-27	-4	10.4	5.8	-319	-1	-1	7.6	3584	108	2.6	67	0.421
56-	44.9181-	109.4653-	2-	12-	0-	W01307	27330	722	13120	-35	-5	13.9	5.9	-295	-1	-1	10.4	4240	106	-2.6	96	0.279
56-	44.9208-	109.4617-	2-	12-	0-	W01308	35310	1234	12240	-37	-5	18.5	7.2	-365	-1	-1	15.9	4848	136	-3.2	120	0.233
56-	44.9147-	109.4394-	2-	12-	0-	W01309	34750	738	16830	-32	-4	13.7	7.8	-298	-1	-1	13.1	3915	116	3.7	115	0.206
56-	44.9583-	109.4364-	2-	12-	0-	W01310	22450	902	13340	-29	-4	10.9	4.7	-337	-1	-1	9.1	4082	115	-2.7	66	0.363
56-	44.9567-	109.4408-	2-	12-	0-	W01311	29250	749	16320	-34	-5	14.7	8.5	563	-1	-1	15.0	4643	114	-2.6	106	0.187
56-	44.9489-	109.4589-	2-	12-	0-	W01312	24490	703	13090	-28	-4	13.3	6.0	543	-1	-1	9.4	4280	115	3.0	109	0.319
56-	44.9383-	109.4733-	2-	12-	0-	W01313	21070	768	10400	61	-4	11.6	8.2	-289	-1	-1	12.3	4127	88	4.3	132	0.228
56-	44.1233-	109.9058-	2-	37-	0-	W01314	47320	479	14170	-19	-1	11.3	2.4	695	-1		3.1	2512	81	-0.9	-25	0.194
56-	44.1211-	109.8839-	2-	37-	0-	W01315	47210	368	14410	-18	-1	13.2	2.3	-196	-1		2.2	2427	70	-1.0	-24	0.273
56-	44.0694-	109.8075-	2-	37-	0-	W01316	54300	627	25020	-24	-2	8.6	1.4	1191	-1	-1	2.3	3740	113	-1.3	65	0.487
56-	44.0681-	109.8089-	2-	37-	0-	W01317	46590	553	24310	-24	-2	10.6	2.1	947	-1	-1	2.1	3036	106	-1.3	-33	0.519
56-	44.0708-	109.8183-	2-	37-	0-	W01318	49390	534	24970	-32	-2	14.7	4.5	1050	-1	-1	4.9	3694	102	-1.8	-45	0.220
56-	44.0911-	109.8344-	2-	37-	0-	W01319	49440	646	25220	-24	-1	9.7	2.0	1190	-1	-1	3.0	4403	99	-1.3	-31	0.367
56-	44.0914-	109.8467-	2-	37-	0-	W01320	43230	645	25740	-22	-1	7.8	1.6	1141	-1	-1	2.7	3953	113	-1.2	52	0.467
56-	44.1019-	109.9228-	2-	37-	0-	W01321	48310	516	14750	-18	-1	14.3	2.6	660	-1		2.8	1875	72	-0.9	50	0.214
56-	44.1872-	109.9000-	2-	37-	0-	W01322	46340	467	14970	-19	-1	11.7	2.5	706	-1		2.4	2491	67	-0.8	42	0.250

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																													U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU,ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																										
56	44.1300	109.8653	2	37	0	W01323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.1756	109.9225	2	37	0	W01324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.1328	109.9744	2	37	0	W01325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.3061	109.9892	2	37	0	W01326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
56	44.1772	109.9172	2	37	0	W01327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.8417	109.8750	2	37	0	W01328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
56	44.8417	109.8125	2	37	0	W01329	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20
56	44.9167	109.7875	2	37	0	W01330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40
56	44.9583	109.8500	2	37	0	W01331	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40
56	44.9542	109.8792	2	37	0	W01332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.9458	109.9125	2	37	0	W01333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.9667	109.9500	2	37	0	W01334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.9917	109.9333	2	37	0	W01335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.8417	109.9167	2	37	0	W01336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.8417	109.9000	2	37	0	W01337	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.8417	109.8792	2	37	0	W01338	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.8417	109.8542	2	37	0	W01339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.8417	109.8500	2	37	0	W01340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.9125	109.8542	2	37	0	W01341	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
56	44.8958	109.8292	2	37	0	W01342	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
56	44.8083	109.9292	2	37	0	W01343	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.8083	109.9208	2	37	0	W01344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.8042	109.9167	2	37	0	W01345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
56	44.8042	109.9375	2	37	0	W01346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.7833	109.8958	2	37	0	W01347	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.8750	109.7625	2	37	0	W01348	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
56	44.8625	109.7583	2	37	0	W01349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.8625	109.7583	2	37	0	W01350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
56	44.8917	109.8833	2	37	0	W01351	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
56	44.8375	109.8583	2	37	0	W01352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.8792	109.8250	2	37	0	W01353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.8083	109.8458	2	37	0	W01354	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.8458	109.6958	2	37	0	W01355	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.8500	109.6958	2	37	0	W01356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
56	44.8042	109.7667	2	37	0	W01357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.7083	109.6542	2	37	0	W01358	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
56	44.7097	109.6514	2	37	0	W01359	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
56	44.7139	109.6333	2	37	0	W01360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
56	44.6444	109.5528	2	37	0	W01361	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.6444	109.5528	2	37	0	W01362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.21
56	44.6486	109.5208	2	37	0	W01363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.32
56	44.6486	109.5208	2	37	0	W01364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.94
56	44.6389	109.5764	2	37	0	W01365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30
56	44.7958	109.7250	2	37	0	W01366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.13
56	44.7358	109.7250	2	37	0	W01367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
56	44.7806	109.7542	2	37	0	W01368	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.13
56	44.7333	109.7833	2	37	0	W01369	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.83
56	44.7333	109.7792	2	37	0	W01370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.87
56	44.7542	109.7750	2	37	0	W01371	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.88
56	44.7458	109.8167	2	37	0	W01372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.7583	109.8458	2	37	0	W01373	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.16

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.1800-109.8653-2-37-						0-W01323										2	12
56-44.1756-109.9225-2-37-						0-W01324										2	11
56-44.1328-109.9744-2-37-						0-W01325											
56-44.3061-109.9892-2-37-						0-W01326										2	13
56-44.1772-109.9172-2-37-						0-W01327										2	11
56-44.8417-109.8750-2-37-						0-W01328										2	9
56-44.8417-109.8125-2-37-						0-W01329										3	22
56-44.9167-109.7875-2-37-						0-W01330										2	11
56-44.9583-109.8500-2-37-						0-W01331										2	10
56-44.9542-109.8792-2-37-						0-W01332										2	10
56-44.9458-109.9125-2-37-						0-W01333										2	10
56-44.9667-109.9500-2-37-						0-W01334										2	10
56-44.9917-109.9333-2-37-						0-W01335										1	9
56-44.8417-109.9167-2-37-						0-W01336										1	7
56-44.8417-109.9000-2-37-						0-W01337										1	9
56-44.8417-109.8792-2-37-						0-W01338										1	10
56-44.8417-109.8542-2-37-						0-W01339										2	6
56-44.8417-109.8500-2-37-						0-W01340	-5	-5	-5	55	-20	27	14	-10	-15	2	12
56-44.9125-109.8542-2-37-						0-W01341										1	12
56-44.8958-109.8292-2-37-						0-W01342										2	9
56-44.8083-109.9292-2-37-						0-W01343	-5	-5	-5	48	-20	30	6	-10	-15	1	5
56-44.8083-109.9208-2-37-						0-W01344										2	9
56-44.8042-109.9167-2-37-						0-W01345										1	9
56-44.8042-109.8875-2-37-						0-W01346	-5	-5	-5	41	-20	54	6	-10	-15	1	7
56-44.7833-109.8958-2-37-						0-W01347										1	6
56-44.8750-109.7625-2-37-						0-W01348	-5	-5	-5	60	-20	34	-5	-10	-15	2	10
56-44.8625-109.7583-2-37-						0-W01349										1	7
56-44.8625-109.7583-2-37-						0-W01350	-5	-5	-5	44	-20	34	7	-10	-15	2	12
56-44.8917-109.8833-2-37-						0-W01351	-5	-5	-5	43	-20	24	-5	-10	-15	-1	6
56-44.8875-109.8583-2-37-						0-W01352	-5	-5	-5	43	-20	31	9	-10	-15	2	8
56-44.8792-109.8250-2-37-						0-W01353										1	10
56-44.8083-109.8458-2-37-						0-W01354										1	7
56-44.8458-109.6958-2-37-						0-W01355	-5	-5	-5	36	-20	31	6	-10	-15	1	6
56-44.8500-109.6958-2-37-						0-W01356										1	7
56-44.8042-109.7667-2-37-						0-W01357										2	7
56-44.7083-109.6542-2-37-						0-W01358	-5	-5	-5	40	-20	20	8	-10	-15	1	4
56-44.7097-109.6514-2-37-						0-W01359										2	5
56-44.7139-109.6333-2-37-						0-W01360										2	4
56-44.6444-109.5528-2-37-						0-W01361										2	12
56-44.6444-109.5528-2-37-						0-W01362										3	20
56-44.6486-109.5208-2-37-						0-W01363										2	7
56-44.6486-109.5208-2-37-						0-W01364										1	7
56-44.6389-109.5764-2-37-						0-W01365										1	10
56-44.7958-109.7250-2-37-						0-W01366										2	15
56-44.7958-109.7250-2-37-						0-W01367										1	6
56-44.7806-109.7542-2-37-						0-W01368										2	8
56-44.7333-109.7833-2-37-						0-W01369										1	6
56-44.7333-109.7792-2-37-						0-W01370										1	7
56-44.7542-109.7750-2-37-						0-W01371										2	23
56-44.7458-109.8167-2-37-						0-W01372										1	8
56-44.7569-109.8458-2-37-						0-W01373										2	12

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.1800-	109.8653-	2-	37-	0-	W01323	50310	-0.05	749	32410	35	-70	18.0	259	-1.2	1	0.9	26970	1.4	6980	18	-0.1
56-	44.1756-	109.9225-	2-	37-	0-	W01324	44080	-0.06	638	36290	47	-76	28.2	404	-1.5	1	1.1	39220	1.5	4744	22	-0.1
56-	44.1328-	109.9744-	2-	37-	0-	W01325	49140	-0.04	659	27040	41	-79	15.8	200	-1.1	-1	0.6	25220	1.6	4629	20	-0.1
56-	44.3061-	109.9892-	2-	37-	0-	W01326	48970	-0.04	936	29750	52	-72	18.3	233	-1.1	1	0.7	29120	2.1	7643	27	-0.1
56-	44.1772-	109.9172-	2-	37-	0-	W01327	45010	-0.05	539	32590	39	-68	20.2	318	-1.3	1	0.8	31490	1.5	6522	18	0.1
56-	44.8417-	109.8750-	2-	37-	0-	W01328	53920	-0.06	697	33390	49	-81	19.4	113	-1.5	2	1.4	45320	1.5	6907	24	-0.1
56-	44.8417-	109.8125-	2-	37-	0-	W01329	46020	-0.03	997	13450	52	227	7.3	39	1.9	2	0.5	15850	2.7	15750	25	0.2
56-	44.9167-	109.7875-	2-	37-	0-	W01330	47080	-0.05	674	44480	26	-67	15.1	232	-1.2	1	0.6	30030	1.5	4755	16	0.1
56-	44.9583-	109.8500-	2-	37-	0-	W01331	48140	-0.05	495	39300	26	-68	14.8	160	-1.2	1	0.8	27890	1.7	4989	13	0.1
56-	44.9542-	109.8792-	2-	37-	0-	W01332	47900	-0.06	653	32120	40	-77	22.9	388	-1.5	2	1.2	39470	1.8	6959	20	0.1
56-	44.9458-	109.9125-	2-	37-	0-	W01333	51350	-0.05	588	34800	36	-78	18.0	117	-1.3	1	1.1	38040	1.9	6048	18	-0.1
56-	44.9667-	109.9500-	2-	37-	0-	W01334	55740	-0.05	740	33900	32	-74	15.6	127	-1.2	1	0.7	31810	1.4	5938	15	0.1
56-	44.9917-	109.9333-	2-	37-	0-	W01335	51250	-0.05	545	36140	41	-71	17.3	128	-1.4	2	0.9	34560	1.5	7093	13	-0.1
56-	44.8417-	109.9167-	2-	37-	0-	W01336	43660	-0.07	491	31060	33	-73	20.9	173	-1.9	2	1.1	43090	-0.8	5370	15	-0.1
56-	44.8417-	109.9000-	2-	37-	0-	W01337	49200	-0.05	476	39250	32	-80	19.6	163	-1.4	2	1.1	40990	1.8	6356	18	-0.1
56-	44.8417-	109.8792-	2-	37-	0-	W01338	49580	-0.05	537	40090	34	-75	19.2	174	-1.4	-1	0.8	41150	1.5	7232	13	0.1
56-	44.8417-	109.8542-	2-	37-	0-	W01339	49040	-0.06	517	40490	35	-70	18.7	185	-1.6	2	1.1	40770	1.6	6855	18	0.1
56-	44.8417-	109.8500-	2-	37-	0-	W01340	49100	-0.06	563	31600	53	-78	22.8	146	-1.6	2	1.4	47450	2.0	7369	27	-0.1
56-	44.9125-	109.8542-	2-	37-	0-	W01341	52330	-0.05	594	31350	42	-82	19.0	88	-1.2	-1	1.2	35330	1.6	8543	19	0.1
56-	44.8958-	109.8292-	2-	37-	0-	W01342	52990	-0.04	643	34100	37	-76	16.7	77	1.3	1	0.8	35180	1.9	8410	18	-0.1
56-	44.8083-	109.9292-	2-	37-	0-	W01343	52860	-0.06	539	34530	45	-71	16.0	113	-1.4	2	1.0	33880	1.5	6615	15	0.1
56-	44.8083-	109.9208-	2-	37-	0-	W01344	52310	-0.06	592	32630	42	-76	24.3	231	-1.5	2	1.3	44590	2.2	7485	16	0.1
56-	44.8042-	109.9167-	2-	37-	0-	W01345	51180	-0.05	519	35120	40	-80	18.2	98	-1.3	2	1.2	36710	1.7	7703	19	-0.1
56-	44.9042-	109.8875-	2-	37-	0-	W01346	49310	-0.06	535	39250	30	-73	19.7	238	-1.5	2	0.7	42760	1.5	6675	15	-0.1
56-	44.7833-	109.8958-	2-	37-	0-	W01347	48210	-0.06	507	40170	34	-70	18.0	155	-1.5	2	1.1	38400	1.6	5243	14	0.1
56-	44.8750-	109.7625-	2-	37-	0-	W01348	52820	-0.06	638	34690	52	-78	20.6	156	-1.5	2	1.5	43820	2.3	8367	23	-0.1
56-	44.8625-	109.7583-	2-	37-	0-	W01349	47030	-0.06	561	40040	33	-80	14.8	182	-1.5	2	1.0	31460	1.6	7583	17	-0.1
56-	44.8625-	109.7583-	2-	37-	0-	W01350	52550	-0.05	677	41230	31	-75	12.6	137	-1.1	1	0.1	26370	2.0	7912	17	0.1
56-	44.8917-	109.8833-	2-	37-	0-	W01351	47930	-0.05	435	40850	31	-68	19.7	190	-1.6	1	1.0	44530	1.2	5961	16	-0.1
56-	44.8875-	109.8583-	2-	37-	0-	W01352	52200	-0.06	627	35900	39	-79	20.6	210	-1.6	2	1.3	42990	2.0	8440	19	0.2
56-	44.8792-	109.8250-	2-	37-	0-	W01353	47950	-0.06	549	38420	38	-79	18.9	195	-1.4	2	1.1	41010	1.8	7275	18	-0.1
56-	44.8083-	109.8458-	2-	37-	0-	W01354	50970	-0.05	527	36660	33	-73	18.7	126	-1.3	1	0.7	35370	1.6	7551	14	0.1
56-	44.8458-	109.6958-	2-	37-	0-	W01355	53020	-0.06	648	40170	54	-70	15.3	166	-1.4	1	1.2	34200	1.8	8991	19	0.1
56-	44.8500-	109.6958-	2-	37-	0-	W01356	49000	-0.06	523	34600	38	-75	15.8	188	-1.5	2	1.2	36620	2.1	8147	20	-0.1
56-	44.8042-	109.7667-	2-	37-	0-	W01357	42550	-0.05	541	27970	31	-80	15.8	132	-1.3	2	0.9	31120	1.5	5506	15	-0.1
56-	44.7083-	109.6542-	2-	37-	0-	W01358	45760	-0.06	593	43560	38	-72	19.0	156	-1.5	2	1.2	46060	1.6	3494	18	0.1
56-	44.7097-	109.6514-	2-	37-	0-	W01359	51660		641	35520		-72				2				9140		
56-	44.7139-	109.6333-	2-	37-	0-	W01360	50460		722	40060		-80				2				9512		
56-	44.6444-	109.5528-	2-	37-	0-	W01361	44610		739	32620		-74				1				8894		
56-	44.6444-	109.5528-	2-	37-	0-	W01362	78840	-0.10	1010	53120	81	-111	36.8	168	-2.5	2	2.4	85510	-1.2	15130	36	0.2
56-	44.6486-	109.5208-	2-	37-	0-	W01363	82480	-0.08	1270	57260	66	-124	28.6	148	-2.1	2	2.1	67960	2.4	17200	35	-0.1
56-	44.6486-	109.5208-	2-	37-	0-	W01364	74810	-0.09	957	66430	63	-123	29.8	233	-2.2	3	1.8	67610	3.1	14530	30	0.1
56-	44.6389-	109.5764-	2-	37-	0-	W01365	72810	-0.10	1027	56370	58	-107	30.3	191	-2.3	2	1.7	64910	2.1	15330	27	0.3
56-	44.7958-	109.7250-	2-	37-	0-	W01366	81660	-0.10	1235	44940	76	-117	43.2	165	-2.4	2	2.2	78030	3.8	11390	42	-0.1
56-	44.7958-	109.7250-	2-	37-	0-	W01367	69900	-0.09	834	65730	53	-118	29.7	379	-2.3	3	1.7	63940	1.9	9394	26	-0.1
56-	44.7306-	109.7542-	2-	37-	0-	W01368	82150	-0.08	897	58230	52	-128	23.2	192	-2.0	3	1.1	50450	2.5	12220	28	-0.1
56-	44.7333-	109.7833-	2-	37-	0-	W01369	81050	-0.09	921	63550	71	-115	24.8	278	-2.2	3	1.5	52740	2.5	10080	30	-0.1
56-	44.7333-	109.7792-	2-	37-	0-	W01370	91310	-0.10	1064	57970	75	-110	32.5	248	-2.5	2	2.1	71030	3.6	11230	36	-0.1
56-	44.7542-	109.7750-	2-	37-	0-	W01371	78400	-0.09	929	60730	63	-120	26.9	274	-2.1	2	1.9	61950	2.5	13390	31	0.2
56-	44.7458-	109.8167-	2-	37-	0-	W01372	76320	-0.08	857	58960	50	-122	27.6	268	-2.1	3	1.0	58850	3.2	9454	30	-0.1
56-	44.7569-	109.8458-	2-	37-	0-	W01373	80580	-0.09	1232	54120	64	-120	29.5	218	-2.2	2	1.6	55290	2.8	11510	32	-0.1

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.1800-109.9653-2-37-						0-W01333	45630	459	15760	-18	-1	11.5	2.6	714	-1		2.7	2290	66	-0.9	48	0.222
56-44.1756-109.9225-2-37-						0-W01334	61670	564	13430	-23	-1	13.4	3.0	617	-1	-1	2.8	2270	72	-1.2	-30	0.179
56-44.1328-109.9744-2-37-						0-W01335	37970	395	15170	-17	-1	9.5	2.2	679	-1		2.6	2185	61	-0.8	-46	0.231
56-44.3061-109.9892-2-37-						0-W01336	32520	465	15110	-19	-1	10.9	3.1	735	-1		4.2	2690	78	-0.8	68	0.190
56-44.1772-109.9172-2-37-						0-W01337	57440	535	13500	-19	-1	12.9	2.5	644	-1		2.1	2375	83	-1.0	57	0.286
56-44.8417-109.8750-2-37-						0-W01338	34270	597	14540	-24	-1	19.1	3.4	885	-1	-1	3.3	2739	108	-1.2	-29	0.242
56-44.8417-109.9125-2-37-						0-W01339	14920	224	10010	43	-1	4.3	2.5	552	-1		6.3	1819	39	1.4	26	0.190
56-44.9167-109.7875-2-37-						0-W01340	44140	458	13180	-18	-1	14.4	2.2	528	-1		1.7	2332	92	-0.9	-24	0.235
56-44.9583-109.8500-2-37-						0-W01341	47300	466	13120	-19	-1	10.1	1.9	501	-1		1.4	2258	79	-0.9	-22	0.286
56-44.9542-109.8792-2-37-						0-W01342	41720	502	13940	-24	-1	17.8	2.9	910	-1	-1	2.0	3049	96	-1.2	-28	0.250
56-44.9458-109.9125-2-37-						0-W01343	29820	541	13050	-20	-1	16.0	2.6	609	-1		1.6	2584	104	-1.0	41	0.313
56-44.9667-109.9500-2-37-						0-W01344	27480	507	14840	-19	-1	13.2	2.3	951	-1	-1	2.0	2365	92	-0.8	55	0.250
56-44.9917-109.9333-2-37-						0-W01345	32890	509	13600	-20	-1	15.1	2.4	568	-1		1.4	2782	111	-1.1	-25	0.357
56-44.8417-109.9167-2-37-						0-W01346	34310	534	10140	-26	-2	21.6	2.8	590	-1	-1	2.0	2828	120	-1.3	-30	0.250
56-44.8417-109.9000-2-37-						0-W01347	35760	630	12600	-22	-1	20.9	2.7	-203	-1		1.7	2737	133	-1.1	32	0.294
56-44.8417-109.8792-2-37-						0-W01348	38830	632	12700	-22	-1	19.3	2.8	751	-1		1.9	3640	154	-1.0	-29	0.263
56-44.8417-109.8542-2-37-						0-W01349	41940	639	12860	-21	-2	22.3	2.7	676	-1	-1	1.7	3383	146	-1.1	-29	0.353
56-44.8417-109.8500-2-37-						0-W01350	35630	572	13540	-25	-2	20.0	3.7	648	-1	-1	3.0	3168	113	-1.2	-30	0.300
56-44.9125-109.8542-2-37-						0-W01341	30870	626	13890	-19	-1	11.7	3.0	698	-1		2.9	2534	85	-0.8	47	0.276
56-44.8958-109.8292-2-37-						0-W01342	32300	608	14340	-18	-1	11.5	2.7	689	-1		2.6	2640	85	-0.9	53	0.308
56-44.8083-109.9292-2-37-						0-W01343	33480	596	13670	-19	-1	16.6	2.4	726	-1	-1	1.6	2855	107	-1.0	-23	0.313
56-44.8083-109.9208-2-37-						0-W01344	38460	579	12700	-25	-2	19.9	3.1	594	-1	-1	2.6	2718	103	1.4	-30	0.231
56-44.8042-109.9167-2-37-						0-W01345	34760	560	13910	-20	-1	14.4	2.5	707	-1		1.8	2661	98	-0.9	32	0.389
56-44.8042-109.8875-2-37-						0-W01346	37360	537	12390	-23	-1	21.4	2.9	892	-1	-1	-0.8	3796	158	1.5	-29	
56-44.7833-109.8958-2-37-						0-W01347	39180	623	13110	-21	-2	21.4	3.2	873	-1	-1	1.8	2951	132	-1.1	-26	0.278
56-44.8750-109.7625-2-37-						0-W01348	29820	511	14040	-24	-1	17.6	3.8	678	-1	-1	3.5	3239	104	1.4	-27	0.200
56-44.8625-109.7583-2-37-						0-W01349	35120	516	12520	-21	-1	20.1	2.7	765	-1	-1	2.3	3095	112	1.7	35	0.217
56-44.8625-109.7583-2-37-						0-W01350	32550	457	14390	-18	-1	12.0	2.4	673	-1		2.3	2748	90	1.0		0.304
56-44.8917-109.8833-2-37-						0-W01351	37150	535	12460	-22	-2	22.3	2.5	632	-1	-1	1.5	3732	167	-1.2	-26	0.333
56-44.8875-109.8583-2-37-						0-W01352	35730	569	13900	-25	-2	20.3	3.1	826	-1	-1	2.2	3333	118	-1.2	-32	0.273
56-44.8792-109.8250-2-37-						0-W01353	35740	613	13080	-21	-1	20.0	3.1	626	-1		2.4	2863	122	-1.0	-42	0.250
56-44.8083-109.8458-2-37-						0-W01354	38430	565	13430	-20	-1	16.5	2.7	672	-1		2.2	3490	107	-0.9		0.273
56-44.8458-109.6958-2-37-						0-W01355	33360	549	14560	-19	-1	16.3	3.0	1001	-1	-1	2.3	3748	122	-1.0	-26	0.261
56-44.8500-109.6958-2-37-						0-W01356	29470	437	12590	-23	-1	18.2	2.6	607	-1	-1	3.7	3014	107	-1.2	-30	0.189
56-44.8042-109.7667-2-37-						0-W01357	32430	543	12720	-20	-1	13.8	2.4	733	-1		1.7	3091	106	-0.9	-65	0.353
56-44.7083-109.6542-2-37-						0-W01358	37400	561	12450	-22	-1	24.8	3.5	601	-1	-1	2.5	3242	164	-1.1		0.280
56-44.7097-109.6514-2-37-						0-W01359	29360	586	14110					902				3160	132			
56-44.7139-109.6333-2-37-						0-W01360	35040	640	13310					745				3800	173			
56-44.6444-109.5528-2-37-						0-W01361	35960	648	9811					627				3871	190			
56-44.6444-109.5528-2-37-						0-W01362	47870	1094	18790	-40	-3	31.3	5.1	1205	-1	-1	5.1	5029	213	-2.0	-50	0.237
56-44.6486-109.5208-2-37-						0-W01363	45790	985	19950	-33	-2	29.2	-0.5	1251	-1	-1	5.3	5043	227	-1.6	98	0.249
56-44.6486-109.5208-2-37-						0-W01364	60340	1023	19100	-34	-2	35.1	5.1	1488	-1	-1	3.5	4994	243	-1.6	62	0.269
56-44.6389-109.5764-2-37-						0-W01365	58320	1023	16240	-34	-2	29.3	4.8	1022	-1	-1	3.4	5196	239	-1.8	-43	0.382
56-44.7958-109.7250-2-37-						0-W01366	70840	981	21540	-42	-2	22.6	5.8	1120	-1	-2	6.1	4634	149	-2.0	-49	0.185
56-44.7958-109.7250-2-37-						0-W01367	55690	1033	18940	-33	-2	40.9	4.8	1178	-1	-1	3.0	5202	235	-1.7	-117	0.267
56-44.7806-109.7542-2-37-						0-W01368	44010	785	22900	-32	-2	22.7	4.5	1083	-1	-1	3.5	4195	173	-1.5	-41	0.323
56-44.7333-109.7833-2-37-						0-W01369	51310	908	21980	-30	-2	27.9	4.5	1151	-1	-1	2.9	4724	186	-1.8	-37	0.286
56-44.7333-109.7792-2-37-						0-W01370	53290	892	22090	-38	-3	35.2	5.2	1143	-1	-1	4.2	4717	187	-2.0	-45	0.207
56-44.7542-109.7750-2-37-						0-W01371	57340	933	21180	-32	-2	133.1	4.6	1064	-1	-1	2.8	5109	204	2.0	84	0.314
56-44.7458-109.8167-2-37-						0-W01372	57740	918	20350	-32	-2	28.4	4.6	1108	-1	-1	4.0	4535	199	-1.5	-35	0.225
56-44.7569-109.8458-2-37-						0-W01373	55580	944	22520	-32	-2	22.9	4.4	986	-1	-1	4.0	3923	179	-1.8	-39	0.290

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																													U CONCENTRATION
							TIME SAMPLED																													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	44.7583	109.8514	2	37	0	W01374	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27
56	44.7569	109.8542	2	37	0	W01375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14
56	44.7708	109.8250	2	37	0	W01376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30
56	44.8292	109.6958	2	37	0	W01377	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.16
56	44.6861	109.5657	2	37	0	W01378	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.35
56	44.7042	109.5764	2	37	0	W01379	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.93
56	44.6694	109.5708	2	37	0	W01380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.91
56	44.6833	109.5944	2	37	0	W01381	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.26
56	44.6833	109.5986	2	37	0	W01382	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.19
56	44.8333	109.8333	2	37	0	W01383	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.83
56	44.6567	109.8292	2	37	0	W01384	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.84
56	44.6667	109.8292	2	37	0	W01385	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.75
56	44.6625	109.8250	2	37	0	W01386	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.91
56	44.6667	109.7917	2	37	0	W01387	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.14
56	44.6567	109.7667	2	37	0	W01388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.01
56	44.6667	109.7625	2	37	0	W01389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.03
56	44.6417	109.7208	2	37	0	W01390	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.95
56	44.6417	109.7181	2	37	0	W01391	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
56	44.6542	109.7042	2	37	0	W01392	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56	44.6583	109.7042	2	37	0	W01393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.82
56	44.7375	109.6472	2	37	0	W01394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.18
56	44.7375	109.6472	2	37	0	W01395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.03
56	44.7208	109.6208	2	37	0	W01396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56	44.6931	109.7056	2	37	0	W01397	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50
56	44.6819	109.7417	2	37	0	W01398	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.8972	109.8000	2	37	0	W01399	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
56	44.9125	109.9250	2	37	0	W01400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
56	44.8250	109.7792	2	37	0	W01401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56	44.6944	109.6875	2	37	0	W01402	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30
56	44.8500	109.8083	2	37	0	W01403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.9722	109.9750	2	37	0	W01404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
56	44.8125	109.7500	2	37	0	W01405	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.8167	109.7000	2	37	0	W01406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20
56	44.7833	109.7000	2	37	0	W01407	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30
56	44.7500	109.7500	2	37	0	W01408	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
56	44.7500	109.7167	2	37	0	W01409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50
56	44.8500	109.7167	2	37	0	W01410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
56	44.4667	109.7167	2	37	0	W01411	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
56	44.5167	109.9167	2	37	0	W01412	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30
56	44.5167	109.9167	2	37	0	W01413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20
56	44.5333	109.9000	2	37	0	W01414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56	44.5333	109.8833	2	37	0	W01415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.5167	109.5167	2	37	0	W01416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.5167	109.6167	2	37	0	W01417	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.5333	109.7167	2	37	0	W01418	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
56	44.5167	109.7000	2	37	0	W01419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
56	44.5833	109.7167	2	37	0	W01420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.5500	109.7000	2	37	0	W01421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
56	44.5333	109.6667	2	37	0	W01422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
56	44.5250	109.6667	2	37	0	W01423	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.5833	109.6000	2	37	0	W01424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.7583-109.8514-2-37-						0-W01374										2	12
56-44.7569-109.8542-2-37-						0-W01375	-5	-5	-5	58	-20	35	8	-10	-15	2	7
56-44.7708-109.8250-2-37-						0-W01376										2	10
56-44.8292-109.6958-2-37-						0-W01377										1	11
56-44.6861-109.5667-2-37-						0-W01378	-5	-5	-5	71	-20	60	-5	-10	-15	2	11
56-44.7042-109.5764-2-37-						0-W01379										1	10
56-44.6694-109.5708-2-37-						0-W01380										2	10
56-44.6833-109.5944-2-37-						0-W01381										1	11
56-44.6833-109.5986-2-37-						0-W01382										-1	7
56-44.8333-109.8333-2-37-						0-W01383										1	5
56-44.6667-109.8292-2-37-						0-W01384										1	8
56-44.6667-109.8292-2-37-						0-W01385										1	7
56-44.6625-109.8250-2-37-						0-W01386										2	6
56-44.6667-109.7917-2-37-						0-W01387										3	27
56-44.6667-109.7667-2-37-						0-W01388										2	14
56-44.6667-109.7625-2-37-						0-W01389										2	7
56-44.6417-109.7208-2-37-						0-W01390										3	36
56-44.6417-109.7181-2-37-						0-W01391										3	17
56-44.6542-109.7042-2-37-						0-W01392										2	18
56-44.6583-109.7042-2-37-						0-W01393	-5	-5	-5	39	-20	30	-5	-10	-15	1	5
56-44.7375-109.6472-2-37-						0-W01394										1	10
56-44.7375-109.6472-2-37-						0-W01395										2	7
56-44.7208-109.6208-2-37-						0-W01396										2	7
56-44.6931-109.7056-2-37-						0-W01397										2	5
56-44.6819-109.7417-2-37-						0-W01398										1	7
56-44.8972-109.8000-2-37-						0-W01399										2	13
56-44.9125-109.9250-2-37-						0-W01400										3	8
56-44.8250-109.7792-2-37-						0-W01401										2	10
56-44.6944-109.6875-2-37-						0-W01402										1	6
56-44.8500-109.8083-2-37-						0-W01403										2	10
56-44.9722-109.9750-2-37-						0-W01404										2	7
56-44.8125-109.7500-2-37-						0-W01405										2	8
56-44.8167-109.7000-2-37-						0-W01406										2	9
56-44.7833-109.7000-2-37-						0-W01407										2	15
56-44.7500-109.7500-2-37-						0-W01408										2	11
56-44.7500-109.7167-2-37-						0-W01409										2	15
56-44.8500-109.7167-2-37-						0-W01410										2	12
56-44.4667-109.7167-2-37-						0-W01411										1	6
56-44.5167-109.9167-2-37-						0-W01412										1	8
56-44.5167-109.9167-2-37-						0-W01413										-1	18
56-44.5333-109.9000-2-37-						0-W01414										-1	16
56-44.5333-109.8833-2-37-						0-W01415										-1	17
56-44.5167-109.6167-2-37-						0-W01416										1	24
56-44.5167-109.6167-2-37-						0-W01417										1	15
56-44.5333-109.7167-2-37-						0-W01418										1	15
56-44.5167-109.7000-2-37-						0-W01419										1	16
56-44.5833-109.7167-2-37-						0-W01420										1	19
56-44.5500-109.7000-2-37-						0-W01421										-1	14
56-44.5333-109.6667-2-37-						0-W01422										1	17
56-44.5250-109.6667-2-37-						0-W01423	-5	-5	-5	71	-20	73	-5	-10	-15	-1	18
56-44.5833-109.6000-2-37-						0-W01424										1	19

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56	-44.7583	-109.8514	-2	-37	-	0-W01374	77520	-0.10	923	46010	85	-113	33.4	242	-2.4	3	2.2	75110	3.2	14300	43	-0.2
56	-44.7569	-109.8542	-2	-37	-	0-W01375	75210	-0.09	948	60620	75	-126	29.8	312	-2.3	3	1.9	63720	2.2	15530	34	0.2
56	-44.7708	-109.8250	-2	-37	-	0-W01376	79500	-0.07	931	45050	62	-133	30.0	153	-1.8	3	1.8	61890	2.9	12430	31	0.2
56	-44.8292	-109.6958	-2	-37	-	0-W01377	78740	-0.09	1044	49860	61	-120	30.2	165	-2.2	4	1.5	57710	2.7	9517	29	-0.1
56	-44.6861	-109.5667	-2	-37	-	0-W01378	79220	-0.11	1137	56380	70	-106	38.6	341	-2.6	2	2.2	71770	3.0	15530	36	-0.1
56	-44.7042	-109.5764	-2	-37	-	0-W01379	69810	-0.09	732	57810	52	-115	33.0	506	-2.4	2	1.8	67650	2.4	13140	22	-0.1
56	-44.6694	-109.5708	-2	-37	-	0-W01380	82110	-0.08	936	47160	53	-131	31.6	87	-1.9	2	1.7	59020	2.4	16880	27	0.1
56	-44.6333	-109.5944	-2	-37	-	0-W01381	86660	-0.10	1300	52480	69	-126	29.5	131	-2.3	2	2.0	60160	2.3	15890	31	-0.1
56	-44.6833	-109.5986	-2	-37	-	0-W01382	64760	-0.12	1032	55650	66	-102	45.5	427	-2.8	2	2.1	116200	-1.3	11600	37	0.2
56	-44.8333	-109.8333	-2	-37	-	0-W01383	69870	-0.09	728	63520	53	-118	31.7	375	-2.3	3	1.9	70980	1.9	10770	26	0.2
56	-44.6667	-109.8292	-2	-37	-	0-W01384	82130	-0.08	941	58530	56	-131	26.1	103	-2.0	3	1.4	61530	2.7	10600	27	0.2
56	-44.6667	-109.8292	-2	-37	-	0-W01385	74110	-0.10	806	64530	52	-112	25.5	313	-2.3	2	1.6	56400	2.0	11840	28	-0.1
56	-44.6525	-109.8250	-2	-37	-	0-W01386	85730	-0.10	916	54180	67	-115	32.5	128	-2.4	2	2.3	72860	3.3	10860	35	-0.1
56	-44.6567	-109.7917	-2	-37	-	0-W01387	82900	-0.09	1654	27430	77	-138	21.7	270	10.7	3	1.3	55930	4.3	24610	42	-0.1
56	-44.6667	-109.7667	-2	-37	-	0-W01388	84220	-0.08	1035	54970	55	-130	24.2	135	-2.0	3	1.7	55990	2.7	12420	28	0.3
56	-44.6667	-109.7625	-2	-37	-	0-W01389	79490	-0.09	877	60370	59	-116	23.2	188	-2.2	2	1.7	57560	3.0	9617	31	-0.1
56	-44.6417	-109.7208	-2	-37	-	0-W01390	69810	-0.12	1491	41110	99	-114	50.5	765	10.2	3	2.9	85480	3.8	19980	46	-0.2
56	-44.6417	-109.7181	-2	-37	-	0-W01391	83520	-0.07	1458	28590	92	-137	20.8	176	4.0	3	1.5	55620	2.7	28590	47	-0.1
56	-44.6542	-109.7042	-2	-37	-	0-W01392	81650		1699	29700	100	-130	22.3	291	4.2	3	1.5	60220	-2.6	26390		
56	-44.6583	-109.7042	-2	-37	-	0-W01393	66540	-0.10	729	71070	49	-125	30.8	344	-2.4	3	1.8	73090	2.2	10270	25	0.4
56	-44.7375	-109.6472	-2	-37	-	0-W01394	77240	-0.09	1045	50770	58	-118	33.6	174	-2.2	2	1.6	64020	3.4	14200	32	-0.1
56	-44.7375	-109.6472	-2	-37	-	0-W01395	79330	-0.11	1027	54940	71	-113	34.9	271	-2.5	2	1.9	67540	3.4	15450	41	-0.1
56	-44.7208	-109.6208	-2	-37	-	0-W01396	83030		935	52950	56	-113	26.9	215	-1.5	3	1.4	53800	-2.5	9956		
56	-44.6931	-109.7056	-2	-37	-	0-W01397	83890		1769	63390	94	-102	23.8	-72	-1.7	3	1.3	50790	-3.5	17350		
56	-44.6819	-109.7417	-2	-37	-	0-W01398	80030		645	52840	73	-142	43.1	132	-2.0	-1	1.7	86690	-3.5	10900		
56	-44.8972	-109.8000	-2	-37	-	0-W01399	81130		1021	50780	52	-134	28.0	513	-1.6	3	1.2	51270	-2.8	10790		
56	-44.9125	-109.9250	-2	-37	-	0-W01400	88690		1291	39860	98	-127	22.4	-53	-1.4	4	1.6	48850	5.9	23720		
56	-44.8250	-109.7792	-2	-37	-	0-W01401	88050		1238	48910	68	-106	24.8	-73	-1.7	3	1.2	51080	-3.4	13440		
56	-44.6944	-109.6875	-2	-37	-	0-W01402	83650		1085	51230	77	-152	43.6	211	-2.3	4	2.1	80050	4.8	8993		
56	-44.8500	-109.8083	-2	-37	-	0-W01403	76790		1444	36790	73	-126	24.1	276	-1.4	2	0.9	36420	-2.4	15700		
56	-44.9722	-109.9750	-2	-37	-	0-W01404	89520		1458	44580	51	-119	16.5	-56	-1.4	4	1.5	38860	-2.6	17690		
56	-44.8125	-109.7500	-2	-37	-	0-W01405	88090		1243	45530	79	-105	25.0	-61	-1.5	2	1.3	54490	-2.6	14390		
56	-44.8167	-109.7000	-2	-37	-	0-W01406	76100		1115	51930	107	-156	31.1	235	-1.9	3	1.5	57140	-3.5	10740		
56	-44.7833	-109.7000	-2	-37	-	0-W01407	82510		1074	40480	69	-134	32.5	124	-2.0	3	1.7	68080	-3.9	17830		
56	-44.7500	-109.7500	-2	-37	-	0-W01408	94960		1492	43950	98	-145	20.8	-61	-1.5	3	1.4	51020	-2.8	24670		
56	-44.7500	-109.7167	-2	-37	-	0-W01409	87170		1053	55430	-22	-109	31.6	-69	-1.7	3	1.5	56560	-3.0	15950		
56	-44.8500	-109.7167	-2	-37	-	0-W01410	84980		1125	34770	83	-169	26.1	-88	53.8	3	1.4	51980	4.8	31520		
56	-44.4667	-109.7167	-2	-37	-	0-W01411	70870		989	59910	55	-113	39.7	417	-2.0	3	1.6	93550	-3.5	13730		
56	-44.5167	-109.9167	-2	-37	-	0-W01412	75220		1058	56920	47	-110	36.3	225	-1.8	3	1.4	86440	-3.2	14890		
56	-44.5167	-109.9167	-2	-37	-	0-W01413	75610		1313	58960	61	-88	34.5	229	-1.7	3	1.4	83950	-3.0	17350		
56	-44.5333	-109.9000	-2	-37	-	0-W01414	75470		1159	65360	59	-124	28.9	177	-1.8	3	1.5	66510	-3.3	16220		
56	-44.5333	-109.8833	-2	-37	-	0-W01415	44370	-0.07	540	42130	38	-65	18.0	131	-1.6	2	1.2	42930	1.7	8273	17	-0.1
56	-44.5167	-109.6167	-2	-37	-	0-W01416	46020	-0.07	735	23700	46	-74	20.8	81	-1.5	1	1.3	46460	2.2	9153	25	-0.1
56	-44.5167	-109.6167	-2	-37	-	0-W01417	45230	-0.06	599	34710	48	-75	24.0	148	-1.4	2	0.9	46570	1.8	9095	23	-0.1
56	-44.5333	-109.7167	-2	-37	-	0-W01418	45790	-0.06	629	35720	35	-71	20.5	164	-1.4	2	0.8	47740	1.5	10840	19	0.1
56	-44.5167	-109.7000	-2	-37	-	0-W01419	48010	-0.07	738	37440	37	-68	19.0	138	-1.5	2	1.1	45490	1.1	8746	18	-0.1
56	-44.5833	-109.7167	-2	-37	-	0-W01420	47190	-0.07	640	36350	42	-79	24.6	156	-1.7	2	1.3	57530	1.9	7056	21	0.2
56	-44.5500	-109.7000	-2	-37	-	0-W01421	27770	-0.08	301	40290	24	-77	22.3	370	-1.8	1	0.8	58540	-0.8	5190	11	-0.1
56	-44.5333	-109.6667	-2	-37	-	0-W01422	43730	-0.06	695	45600	35	-74	21.2	256	-1.6	2	1.2	52810	-0.7	7889	19	-0.1
56	-44.5250	-109.6667	-2	-37	-	0-W01423	35910	-0.07	517	33050	39	-68	23.0	529	-1.6	1	1.0	82410	1.4	6056	19	-0.1
56	-44.5833	-109.6000	-2	-37	-	0-W01424	46380	-0.07	735	31010	44	-74	23.8	179	-1.7	2	1.3	48140	2.2	11620	22	-0.1

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.7583-109.8514-2-37-			0	W	1	1374	53100	946	23320	-39	-2	28.3	5.6	689	-2	-1	5.5	4629	171	2.3	-49	0.231
56-44.7569-109.8542-2-37-			0	W	1	1375	61080	991	20580	-34	-2	33.3	-0.5	1128	-1	-1	5.0	5449	189	-1.7	-94	0.228
56-44.7708-109.8250-2-37-			0	W	1	1376	53870	992	23330	34	-2	20.5	4.6	787	-1	1	4.3	4919	176	2.5	-39	0.302
56-44.9292-109.6958-2-37-			0	W	1	1377	61040	920	21620	-34	-2	21.2	4.5	1086	-1	-1	4.2	4858	166	-1.7	-41	0.276
56-44.6861-109.5667-2-37-			0	W	1	1378	58700	947	18410	-41	-3	31.3	5.2	1233	-2	-1	6.1	4449	195	-2.1	-48	0.221
56-44.7042-109.5764-2-37-			0	W	1	1379	57200	964	16700	-35	-2	39.2	-0.5	1046	-1	-1	3.7	6909	273	-1.7	73	0.251
56-44.6694-109.5708-2-37-			0	W	1	1380	51990	1020	20550	-32	-2	18.0	4.1	1254	-1	-1	3.9	3885	145	-1.6	102	0.233
56-44.6833-109.5944-2-37-			0	W	1	1381	55690	958	21390	-35	-2	20.8	5.1	1212	-1	-1	5.3	5251	198	-1.8	-10	0.238
56-44.6833-109.5985-2-37-			0	W	1	1382	59740	1113	15930	-45	-3	41.8	6.2	1051	-2	-1	4.4	7970	420	-2.1	-56	0.270
56-44.8333-109.8333-2-37-			0	W	1	1383	58720	1029	19910	-34	-2	39.1	4.7	921	-1	-1	3.2	5574	264	-1.7	-43	0.259
56-44.6667-109.8292-2-37-			0	W	1	1384	48270	954	22510	-31	-2	25.0	4.5	1233	-1	-1	2.6	4875	218	-1.4	77	0.323
56-44.6657-109.8292-2-37-			0	W	1	1385	55640	946	20500	-31	-2	33.3	4.2	1211	-1	-1	2.7	4517	197	-1.9	-40	0.278
56-44.6625-109.8250-2-37-			0	W	1	1386	50190	947	22220	-38	-2	28.6	5.4	1277	-2	-1	3.7	4953	183	-1.9	-44	0.246
56-44.6667-109.7917-2-37-			0	W	1	1387	32020	883	22130	59	-2	18.3	5.0	1108	-1	-1	7.2	5158	161	-1.6	133	0.575
56-44.6667-109.7667-2-37-			0	W	1	1388	45050	952	23700	-32	-2	23.4	4.1	1379	-1	-1	3.7	4329	186	-1.4	35	0.273
56-44.6667-109.7625-2-37-			0	W	1	1389	45590	923	22310	-30	-2	27.5	4.6	1034	-1	-1	3.7	4354	197	-1.8	167	0.278
56-44.6417-109.7208-2-37-			0	W	1	1390	23970	1330	14850	133	-3	34.2	7.6	-418	-2	-2	8.5	4497	186	-2.3	-59	0.465
56-44.6417-109.7181-2-37-			0	W	1	1391	35900	954	26420	87	-2	16.3	5.6	1379	-1	-1	7.6	4553	154	-1.4	88	0.329
56-44.6542-109.7042-2-37-			0	W	1	1392	49920	977	25330	-620		18.0		1121	-2	-1	10.9	4734	168		130	0.220
56-44.6583-109.7042-2-37-			0	W	1	1393	55730	1109	19350	-36	-2	43.6	4.5	967	-1	-1	3.2	5821	285	-1.7	-46	0.256
56-44.7375-109.6472-2-37-			0	W	1	1394	58860	1010	19370	-35	-2	22.2	4.9	909	-1	-1	4.2	4522	176	-1.8	101	0.281
56-44.7375-109.6472-2-37-			0	W	1	1395	59760	971	21320	-39	-3	28.6	5.1	1256	-2	-1	4.5	5039	150	-2.0	-52	0.229
56-44.7208-109.6208-2-37-			0	W	1	1396	58180	872	22700	-640		23.3		1461	-2	-2	-7.2	4403	191		63	
56-44.6931-109.7056-2-37-			0	W	1	1397	49380	1140	22370	-674		22.0		1237	-2	-1	-8.9	4291	197		54	
56-44.6819-109.7417-2-37-			0	W	1	1398	57570	892	25130	-824		30.3		970	-2	-2	-10.1	4562	187		132	
56-44.8972-109.8000-2-37-			0	W	1	1399	60290	900	25750	-687		20.6		1149	-2	-1	-7.5	4456	141		-38	
56-44.9125-109.9250-2-37-			0	W	1	1400	34710	611	30040	-528		14.4		874	-2	-1	-6.9	6192	178		101	
56-44.8250-109.7792-2-37-			0	W	1	1401	49440	956	28010	-643		17.8		753	-2	-1	-8.9	4488	167		75	
56-44.6944-109.6875-2-37-			0	W	1	1402	57830	757	25410	-772		32.0		1196	-2	-2	-11.8	5728	210		111	
56-44.8500-109.8083-2-37-			0	W	1	1403	49730	577	26210	-615		13.4		1232	-1	-1	-6.8	3406	102		-43	
56-44.9722-109.9750-2-37-			0	W	1	1404	39630	513	26770	-577		16.2		1078	-2	-1	-7.3	5508	147		103	
56-44.8125-109.7500-2-37-			0	W	1	1405	45950	935	30500	-684		19.7		1121	-2	-1	-7.4	4869	162		145	
56-44.8167-109.7000-2-37-			0	W	1	1406	70700	922	27160	-708		24.0		1051	-2	-2	-9.5	5900	182		137	
56-44.7833-109.7000-2-37-			0	W	1	1407	51540	939	22410	-957		23.2		1142	-2	-2	-10.4	5033	153		187	
56-44.7500-109.7500-2-37-			0	W	1	1408	36080	913	29570	-698		14.8		1534	-2	-1	-7.5	5282	161		-113	
56-44.7500-109.7167-2-37-			0	W	1	1409	54230	1076	26290	-732		22.9		-301	-2	-1	-8.5	5684	199		78	
56-44.8500-109.7167-2-37-			0	W	1	1410	49410	840	26290	-721		17.8		1018	-2	-2	-10.2	5252	161		-42	
56-44.4667-109.7167-2-37-			0	W	1	1411	59980	1052	18320	-816		41.0		817	-2	-2	-9.9	5946	326		111	
56-44.5167-109.9167-2-37-			0	W	1	1412	55180	1147	16420	-748		33.5		994	-2	-1	-8.4	6725	354		-45	
56-44.5167-109.9167-2-37-			0	W	1	1413	53020	1155	18440	-697		31.5		1039	-2	-1	-8.2	5950	331		-121	
56-44.5333-109.9000-2-37-			0	W	1	1414	54040	1026	19300	-642		31.9		1315	-2	-1	-8.7	5039	277		-42	
56-44.5333-109.8833-2-37-			0	W	1	1415	41370	640	11310	-21	-2	22.6	3.3	930	-1	-1	3.0	3810	168	-1.3	-26	0.200
56-44.5167-109.6167-2-37-			0	W	1	1416	26170	609	10980	-25	-2	15.4	3.2	608	-1	-1	4.1	3084	121	-1.2	109	0.220
56-44.5167-109.6167-2-37-			0	W	1	1417	39260	610	11220	-23	-1	19.6	3.4	720	-1		2.8	2564	132	-1.1	46	0.321
56-44.5333-109.7167-2-37-			0	W	1	1418	35730	679	10580	-23	-1	19.2	2.9	864	-1		2.3	4122	206	-1.1	-30	0.349
56-44.5167-109.7000-2-37-			0	W	1	1419	33550	557	11470	-22	-2	19.1	3.0	695	-1	-1	2.2	3948	175	-1.2	-27	0.318
56-44.5833-109.7167-2-37-			0	W	1	1420	38410	673	12210	-27	-2	24.8	3.6	719	-1	-1	2.9	4052	175	-1.3	-34	0.207
56-44.5500-109.7000-2-37-			0	W	1	1421	43320	814	6437	-28	-2	25.4	2.3	-244	-1	-1	-1.0	5457	337	-1.3	-21	
56-44.5333-109.6667-2-37-			0	W	1	1422	43360	768	11050	-24	-2	26.9	3.2	731	-1	-1	2.1	4553	233	-1.2		0.333
56-44.5250-109.6667-2-37-			0	W	1	1423	38980	882	9032	-25	-2	22.8	3.3	721	-1	-1	2.5	7172	402	-1.3	-30	0.360
56-44.5833-109.6000-2-37-			0	W	1	1424	36850	619	13750	-26	-2	20.7	3.6	778	-1	-1	3.3	3220	127	-1.4	-33	0.242

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-44.5500-109.5250-2-37-						0-W01425-																												1.30
56-44.5333-109.6000-2-37-						0-W01426-																												1.20
56-44.6167-109.5750-2-37-						0-W01427-																												1.20
56-44.6333-109.6333-2-37-						0-W01428-																												1.30
56-44.6333-109.5667-2-37-						0-W01429-																												1.40
56-44.5000-109.5583-2-37-						0-W01430-																												0.70
56-44.5583-109.5417-2-37-						0-W01431-																												1.30
56-44.6000-109.5250-2-37-						0-W01432-																												1.50
56-44.6000-109.5333-2-37-						0-W01433-																												0.80
56-44.5167-109.6000-2-37-						0-W01434-																												0.90
56-44.5333-109.6167-2-37-						0-W01435-																												0.60
56-44.5667-109.7333-2-37-						0-W01436-																												1.00
56-44.5667-109.9833-2-37-						0-W01437-																												0.70
56-44.6000-109.9667-2-37-						0-W01438-																												0.60
56-44.5833-109.9667-2-37-						0-W01439-																												0.70
56-44.5833-109.9333-2-37-						0-W01440-																												0.50
56-44.6083-109.8833-2-37-						0-W01441-																												0.60
56-44.6167-109.8167-2-37-						0-W01442-																												0.50
56-44.6083-109.7333-2-37-						0-W01443-																												2.00
56-44.6333-109.7000-2-37-						0-W01444-																												3.80
56-44.4667-109.7000-2-37-						0-W01445-																												0.60
56-44.5000-109.7083-2-37-						0-W01446-																												0.70
56-44.5000-109.7083-2-37-						0-W01447-																												0.60
56-44.4833-109.6833-2-37-						0-W01448-																												0.70
56-44.5500-109.7583-2-37-						0-W01449-																												0.70
56-44.5250-109.7333-2-37-						0-W01450-																												0.70
56-44.6000-109.7000-2-37-						0-W01451-																												1.00
56-44.5667-109.6667-2-37-						0-W01452-																												0.80
56-44.5333-109.5833-2-37-						0-W01453-																												0.70
56-44.5000-109.5667-2-37-						0-W01454-																												0.70
56-44.5000-109.5667-2-37-						0-W01455-																												0.70
56-44.4667-109.5667-2-37-						0-W01456-																												0.70
56-44.4833-109.7333-2-37-						0-W01457-																												0.60
56-44.5667-109.6667-2-37-						0-W01458-																												1.00
56-44.5667-109.6667-2-37-						0-W01459-																												1.00
56-44.5500-109.6667-2-37-						0-W01460-																												0.90
56-44.4667-109.8333-2-37-						0-W01461-																												0.70
56-44.5000-109.8250-2-37-						0-W01462-																												0.60
56-44.4833-109.8583-2-37-						0-W01463-																												0.70
56-44.4750-109.8583-2-37-						0-W01464-																												0.80
56-44.5833-109.8167-2-37-						0-W01465-																												0.80
56-44.5667-109.8333-2-37-						0-W01466-																												0.70
56-44.5000-109.8583-2-37-						0-W01467-																												0.50
56-44.5083-109.8750-2-37-						0-W01468-																												0.30
56-44.4917-109.8833-2-37-						0-W01469-																												1.10
56-44.4917-109.8833-2-37-						0-W01470-																												1.10
56-44.5833-109.6833-2-37-						0-W01471-																												1.60
56-44.5667-109.9167-2-37-						0-W01472-																												1.40
56-44.5500-109.9333-2-37-						0-W01473-																												1.00
56-44.5333-109.9417-2-37-						0-W01474-																												1.50
56-44.5167-109.9333-2-37-						0-W01475-																												1.10

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-44.5500-109.5250-2-37-						0-W01425										2	16
56-44.6333-109.6000-2-37-						0-W01426										2	17
56-44.6167-109.5750-2-37-						0-W01427										2	11
56-44.6333-109.6333-2-37-						0-W01428	-5	-5	-5	106	-20	43	19	-10	-15	2	29
56-44.6333-109.5667-2-37-						0-W01429										2	19
56-44.5000-109.5583-2-37-						0-W01430										1	19
56-44.5583-109.5417-2-37-						0-W01431										2	14
56-44.6000-109.5250-2-37-						0-W01432										2	18
56-44.6000-109.5333-2-37-						0-W01433										2	15
56-44.5167-109.6000-2-37-						0-W01434										2	25
56-44.5333-109.6167-2-37-						0-W01435										1	11
56-44.5667-109.7333-2-37-						0-W01436										1	15
56-44.5667-109.9833-2-37-						0-W01437										1	16
56-44.6000-109.9667-2-37-						0-W01438										1	18
56-44.5833-109.9667-2-37-						0-W01439										1	20
56-44.5833-109.9333-2-37-						0-W01440										1	15
56-44.6083-109.8833-2-37-						0-W01441										1	18
56-44.6167-109.8167-2-37-						0-W01442										1	12
56-44.6083-109.7333-2-37-						0-W01443										3	36
56-44.6333-109.7000-2-37-						0-W01444	-5	-5	-5	35	-20	-15	31	-10	-15	5	27
56-44.4667-109.7000-2-37-						0-W01445										1	17
56-44.5000-109.7083-2-37-						0-W01446										1	16
56-44.5000-109.7083-2-37-						0-W01447											
56-44.4833-109.6833-2-37-						0-W01448	-5	-5	-5	49	-20	-15	-5	-10	-15	1	17
56-44.5500-109.7583-2-37-						0-W01449											
56-44.5250-109.7333-2-37-						0-W01450										1	13
56-44.6000-109.7000-2-37-						0-W01451										2	21
56-44.5667-109.6667-2-37-						0-W01452	-5	-5	-5	80	-20	28	7	-10	-15	2	17
56-44.5333-109.5833-2-37-						0-W01453										1	17
56-44.5000-109.5667-2-37-						0-W01454	-5	-5	-5	51	-20	35	8	-10	-15	1	16
56-44.5000-109.5667-2-37-						0-W01455	-5	-5	-5	53	-20	20	5	-10	-15	-1	19
56-44.4667-109.5667-2-37-						0-W01456										-1	21
56-44.4833-109.7333-2-37-						0-W01457	-5	-5	-5	38	-20	23	-5	-10	-15	1	19
56-44.5667-109.6667-2-37-						0-W01458	-5	-5	-5	93	-20	64	-5	-10	-15	2	22
56-44.5667-109.6667-2-37-						0-W01459	-5	-5	-5	83	-20	58	11	-10	-15	2	17
56-44.5500-109.6667-2-37-						0-W01460	-5	-5	-5	120	-20	52	5	-10	-15	2	18
56-44.4667-109.8333-2-37-						0-W01461	-5	-5	-5	55	-20	-15	-5	-10	-15	1	19
56-44.5000-109.8250-2-37-						0-W01462	-5	-5	-5	68	-20	40	10	-10	-15	-1	15
56-44.4833-109.8583-2-37-						0-W01463	-5	-5	-5	66	-20	20	-5	-10	-15	1	16
56-44.4750-109.8583-2-37-						0-W01464	-5	-5	-5	70	-20	19	7	-10	-15	2	19
56-44.5833-109.8167-2-37-						0-W01465	5	-5	-5	63	-20	21	8	-10	-15	1	16
56-44.5667-109.8333-2-37-						0-W01466	-5	-5	-5	54	-20	15	12	11	-15	-1	15
56-44.5000-109.8583-2-37-						0-W01467	5	-5	-5	54	-20	30	-5	-10	-15	-1	10
56-44.5083-109.8750-2-37-						0-W01468										-1	18
56-44.4917-109.8833-2-37-						0-W01469	-5	5	-5	78	-20	25	8	-10	-15	1	20
56-44.4917-109.8833-2-37-						0-W01470	-5	5	-5	71	-20	37	5	-10	-15	1	17
56-44.5833-109.6833-2-37-						0-W01471	-5	-5	-5	71	-20	52	7	-10	-15	2	23
56-44.5667-109.9167-2-37-						0-W01472	-5	-5	-5	65	-20	18	5	-10	-15	1	17
56-44.5500-109.9333-2-37-						0-W01473										-1	15
56-44.5333-109.9417-2-37-						0-W01474										-1	18
56-44.5167-109.9333-2-37-						0-W01475	-5	5	-5	55	-20	18	5	-10	-15	1	18

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Concentrations reported in weight parts per million (ppm)												
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-44.5500-109.5250-2-37-				0	-W01425		47990	-0.06	953	29320	59	-82	19.2	70	-1.3	2	1.5	38480	1.9	15990	31	-0.1
56-44.6333-109.6000-2-37-				0	-W01426		54410	-0.05	734	33790	51	-71	14.3	42	-1.1	2	0.9	30110	2.0	12310	29	0.1
56-44.6167-109.5750-2-37-				0	-W01427		54700	-0.05	815	31980	58	188	10.0	32	-1.3	2	1.1	29140	2.0	12590	21	0.1
56-44.6333-109.6333-2-37-				0	-W01428		52280	-0.06	1555	21080	71	-80	16.0	84	3.2	2	1.3	37260	2.2	18800	39	0.2
56-44.6333-109.5667-2-37-				0	-W01429		45710	-0.05	1438	28280	111	-76	15.7	58	-1.2	2	1.4	33670	2.3	18300	52	0.2
56-44.5000-109.5583-2-37-				0	-W01430		46300	-0.05	737	34920	27	-70	12.6	116	-1.3	2	0.7	30200	-0.6	11630	17	0.1
56-44.5583-109.5417-2-37-				0	-W01431		51790	-0.05	1717	26020	65	-48	9.4	15	1.2	2	1.4	24820	1.7	18690	26	0.2
56-44.6000-109.5250-2-37-				0	-W01432		46950	-0.05	902	30410	71	-77	16.5	128	-1.2	2	1.0	32520	2.2	13800	37	-0.1
56-44.6000-109.5333-2-37-				0	-W01433		50330	-0.05	945	32160	40	-72	14.5	75	-1.2	2	0.8	32390	1.9	12880	24	0.1
56-44.5167-109.6000-2-37-				0	-W01434		39040	-0.06	1150	35800	49	-63	26.6	547	1.6	2	1.3	35930	1.9	13230	17	0.1
56-44.5333-109.6167-2-37-				0	-W01435		51400	-0.07	522	31030	42	-82	20.0	86	-1.5	2	1.2	42710	2.0	7709	20	-0.1
56-44.5667-109.7333-2-37-				0	-W01436		50390	-0.05	957	29960	48	-82	11.4	45	-1.2	2	1.2	31760	2.2	12680	22	-0.1
56-44.5667-109.9833-2-37-				0	-W01437		53750	-0.05	809	33780	39	-76	15.9	72	-1.2	2	0.8	37230	1.6	9088	19	0.1
56-44.6000-109.9667-2-37-				0	-W01438		36160	-0.05	533	27200	19	-75	10.3	71	-1.4	1	0.4	21970	1.0	5940	12	-0.1
56-44.5833-109.9667-2-37-				0	-W01439		46570	-0.07	570	38010	40	-69	18.4	155	-1.5	1	1.1	44940	1.7	6808	15	0.1
56-44.5833-109.9333-2-37-				0	-W01440		54930	-0.06	641	32220	41	-83	19.9	70	-1.5	2	1.3	46810	1.8	5835	20	-0.1
56-44.6083-109.8833-2-37-				0	-W01441		52490	-0.05	594	35510	41	-85	16.7	83	-1.3	2	1.3	41670	1.6	7315	22	-0.1
56-44.6167-109.8167-2-37-				0	-W01442		28990	-0.05	384	38890	13	-67	8.3	131	-1.3	2	0.5	20400	-0.6	5487	-3	-0.1
56-44.6083-109.7333-2-37-				0	-W01443		57890	-0.04	1050	3554	66	-76	5.0		-0.8	2	1.2	19630	2.6	24130	31	0.1
56-44.6333-109.7000-2-37-				0	-W01444		55090	-0.03	359	7715	82	-84	6.2		2.7	2	0.8	22330	5.3	29830	46	0.2
56-44.4667-109.7000-2-37-				0	-W01445		41430	-0.06	456	38530	31	-77	21.6	167	-1.5	2	1.0	56030	1.5	7548	17	-0.1
56-44.5000-109.7083-2-37-				0	-W01446		51830	-0.05	655	39040	34	-71	17.5	124	-1.3	2	0.8	39210	1.5	10080	16	0.1
56-44.5000-109.7083-2-37-				0	-W01447		49320	-0.06	647	38990	38	-70	17.8	121	-1.5	2	1.1	40960	1.5	7285	16	-0.1
56-44.4833-109.6833-2-37-				0	-W01448		47220	-0.08	653	39310	44	-78	24.9	241	-1.8	2	1.4	61550	-0.8	7664	22	-0.1
56-44.5500-109.7583-2-37-				0	-W01449		48520	-0.06	659	35090	39	-78	18.8	122	-1.4	2	1.2	43920	1.3	10810	19	-0.1
56-44.5250-109.7333-2-37-				0	-W01450		44110	-0.06	672	38650	35	-70	22.3	213	-1.5	2	1.2	52920	1.4	6858	20	0.2
56-44.6000-109.7000-2-37-				0	-W01451		50490	-0.06	705	32860	55	-68	18.2	131	-1.4	2	1.0	39950	1.9	10490	23	0.1
56-44.5667-109.6667-2-37-				0	-W01452		49170	-0.07	804	34340	48	-75	24.4	148	-1.7	2	1.4	53690	2.1	11620	27	-0.1
56-44.5333-109.5833-2-37-				0	-W01453		47020	-0.06	549	35510	40	-78	20.5	103	-1.3	1	1.1	44040	2.1	8675	21	-0.1
56-44.5000-109.5667-2-37-				0	-W01454		52040	-0.05	635	35670	35	-74	17.0	95	-1.3	2	1.1	40060	1.3	7304	18	0.1
56-44.5000-109.5667-2-37-				0	-W01455		43060	-0.07	596	40390	32	-67	20.7	178	-1.5	1	1.0	46610	1.4	8591	15	-0.1
56-44.4667-109.5667-2-37-				0	-W01456		51150	-0.06	602	29450	41	-77	19.4	83	-1.5	2	1.2	43110	1.9	7916	22	-0.1
56-44.4833-109.7333-2-37-				0	-W01457		52200	-0.05	554	33160	36	-80	16.2	66	-1.3	2	1.2	41710	2.3	9033	20	-0.1
56-44.5667-109.6667-2-37-				0	-W01458		45520	-0.06	997	37560	43	-71	19.7	198	-1.3	2	0.9	42430	1.7	13780	22	0.1
56-44.5667-109.6567-2-37-				0	-W01459		45520	-0.06	1089	32910	49	-70	20.8	290	-1.5	1	1.3	52410	2.4	9515	18	0.1
56-44.5500-109.6667-2-37-				0	-W01460		47960	-0.07	765	34050	53	-74	26.7	182	-1.7	2	1.6	55210	1.7	10970	27	-0.1
56-44.4667-109.8333-2-37-				0	-W01461		48760	-0.06	686	37950	38	-80	18.4	96	-1.4	2	1.2	44880	1.5	8908	19	-0.1
56-44.5000-109.8250-2-37-				0	-W01462		42730	-0.06	611	38300	31	-72	25.8	205	-1.5	2	1.1	62220	1.3	9319	15	0.1
56-44.4833-109.8583-2-37-				0	-W01463		49200	-0.07	574	39090	41	-70	21.1	134	-1.6	2	1.4	51530	2.0	7458	19	-0.1
56-44.4750-109.8583-2-37-				0	-W01464		46780	-0.06	698	27450	45	-75	25.0	71	-1.5	2	1.3	52160	2.2	8726	23	0.1
56-44.5833-109.8167-2-37-				0	-W01465		46190	-0.05	580	35950	37	-76	20.3	123	-1.4	2	1.0	44250	1.6	7765	16	0.1
56-44.5667-109.8333-2-37-				0	-W01466		49990	-0.06	754	41790	34	-74	19.6	100	-1.4	2	0.7	47950	1.2	8551	19	-0.1
56-44.5000-109.8583-2-37-				0	-W01467		33190	-0.07	324	49410	31	-65	26.4	254	-1.8	1	1.0	63430	2.3	6202	16	-0.1
56-44.5083-109.8750-2-37-				0	-W01468		22850	-0.06	324	17040	15	-56	11.4	85	-1.6	-1	0.5	24790	-0.8	3790	9	-0.1
56-44.4917-109.8833-2-37-				0	-W01469		65990	-0.21	850	47810	61	-95	29.3	144	-2.3	2	1.8	67080	2.4	10260	-16	-0.2
56-44.4917-109.8933-2-37-				0	-W01470		71270	-0.25	900	53040	66	-112	46.6	442	-2.7	3	2.2	106200	2.5	12760	-20	-0.2
56-44.5833-109.6833-2-37-				0	-W01471		72530	-0.18	1565	53590	80	-122	30.1	346	-2.0	3	1.6	71530	3.1	21160	37	-0.1
56-44.5667-109.9167-2-37-				0	-W01472		75560	-0.19	955	52050	54	-114	29.5	120	-2.2	2	1.6	68960	3.1	9314	-15	-0.1
56-44.5500-109.9333-2-37-				0	-W01473		64930	-0.29	1005	69260	57	-120	39.0	280	-3.2	3	1.7	97960	1.8	11990	-21	-0.2
56-44.5333-109.9417-2-37-				0	-W01474		59170	-0.39	803	63570	69	-140	53.4	386	-4.3	4	1.9	135000	3.2	12650	-31	-0.3
56-44.5167-109.9333-2-37-				0	-W01475		69610	-0.22	921	58160	60	-118	38.3	237	-2.5	2	1.8	91450	2.6	10790	-19	-0.2

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

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.5500-109.5250-2-37-						0-W01425	18810	568	13340	42	-1	15.5	4.6	898	-1		4.8	3192	145	-1.1	58	0.208
56-44.6333-109.6000-2-37-						0-W01426	29140	475	14210	47	-1	12.4	3.6	833	-1	-1	4.7	2790	100	-0.8		0.255
56-44.6167-109.5750-2-37-						0-W01427	20940	412	15450	23	-1	11.7	3.6	1111	-1	-1	3.7	3765	112	-1.0	-18	0.324
56-44.6333-109.6333-2-37-						0-W01428	23380	494	14280	35	-1	11.9	4.8	1134	-1	-1	6.5	3084	108	2.0	-26	0.200
56-44.6333-109.5667-2-37-						0-W01429	28190	552	11600	39	-1	12.5	5.7	1062	-1	-1	6.8	2536	89	-1.0	53	0.206
56-44.5000-109.5583-2-37-						0-W01430	23990	493	13100	-19	-1	15.5	2.4	473	-1		2.4	2375	117	-1.0	-24	0.292
56-44.5583-109.5417-2-37-						0-W01431	20340	475	4135	47	-1	5.5	4.4	1790	-1	-1	4.3	3374	76	-0.8	-26	0.302
56-44.6000-109.5250-2-37-						0-W01432	37940	483	12550	35	-1	12.7	4.2	629	-1	-1	5.6	2937	107	-1.0	56	0.268
56-44.6000-109.5333-2-37-						0-W01433	25190	511	12700	-20	-1	12.4	3.4	749	-1		3.3	2349	112	-0.9	63	0.242
56-44.5167-109.6000-2-37-						0-W01434	27030	529	8938	44	-1	14.2	3.4	-215	-1	-1	4.0	2416	100	-1.1	57	0.225
56-44.5333-109.6167-2-37-						0-W01435	30860	512	15010	-24	-2	17.3	3.5	761	-1	-1	2.6	3185	113	1.9	-30	0.231
56-44.5667-109.7333-2-37-						0-W01436	23650	494	14590	29	-1	12.3	3.1	698	-1		3.7	2363	98	1.6	44	0.270
56-44.5667-109.9833-2-37-						0-W01437	28720	526	14250	-20	-1	15.4	2.8	756	-1		2.4	3265	119	-0.9	-24	0.292
56-44.6000-109.9667-2-37-						0-W01438	25410	565	8361	-19	-1	11.4	1.4	499	-1		2.4	2120	93	-1.0	-43	0.250
56-44.5833-109.9667-2-37-						0-W01439	37120	555	12160	-22	-2	21.2	2.7	632	-1	-1	2.0	4103	174	-1.2	-27	0.350
56-44.5833-109.9333-2-37-						0-W01440	25780	507	14420	-23	-2	18.2	3.3	734	-1	-1	2.6	3569	125	-1.2	-28	0.192
56-44.6083-109.8833-2-37-						0-W01441	27310	610	14930	-21	-1	17.3	3.1	891	-1		2.4	2836	131	-1.0	47	0.250
56-44.6167-109.8167-2-37-						0-W01442	42520	627	7309	-20	-1	11.1	0.7	434	-1		-0.7	2661	187	-1.0	71	
56-44.6083-109.7333-2-37-						0-W01443	11420	213	22260	51	-1	3.0	3.3	804	-1		6.6	2471	54	1.0	38	0.308
56-44.6333-109.7000-2-37-						0-W01444	-2938	424	18030	114	-1	1.6	4.4	-195	-1		15.1	1159	19	2.7	54	0.252
56-44.4667-109.7000-2-37-						0-W01445	39290	713	10310	-24	-2	23.4	3.0	715	-1	-1	1.8	4037	227	-1.2	76	0.333
56-44.5000-109.7083-2-37-						0-W01446	31530	608	13010	-20	-1	18.2	3.0	537	-1		2.1	3094	147	-1.0	-25	0.333
56-44.5000-109.7083-2-37-						0-W01447	35260	645	13430	-21	-2	20.5	3.0	552	-1	-1	1.8	3646	156	-1.2	-25	0.333
56-44.4833-109.6833-2-37-						0-W01448	39650	673	12100	-27	-2	27.7	3.2	554	-1	-1	-0.2	4509	209	-1.4	-32	
56-44.5500-109.7583-2-37-						0-W01449	32870	540	11620	-21	-1	18.9	3.4	643	-1		2.7	2967	144	1.9	42	0.259
56-44.5250-109.7333-2-37-						0-W01450	36320	706	10570	-24	-1	22.8	3.2	554	-1	-1	2.1	3891	223	-1.1	-19	0.333
56-44.6000-109.7000-2-37-						0-W01451	35550	607	12310	-20	-1	14.5	3.5	698	-1	-1	3.2	3041	136	-1.1	78	0.313
56-44.5667-109.6667-2-37-						0-W01452	37300	515	11530	-25	-2	22.2	3.8	651	-1	-1	3.6	3352	150	-1.4	-32	0.222
56-44.5333-109.5833-2-37-						0-W01453	33500	623	11850	-21	-1	17.2	2.7	823	-1		2.1	3164	139	-1.0	-68	0.333
56-44.5000-109.5667-2-37-						0-W01454	32730	501	13550	-21	-1	15.9	3.0	698	-1		2.6	3226	131	-0.9	56	0.269
56-44.5000-109.5667-2-37-						0-W01455	35440	633	11920	-21	-2	21.4	2.9	959	-1	-1	2.3	3953	209	-1.3	-26	0.304
56-44.4667-109.5667-2-37-						0-W01456	26150	532	12980	-23	-2	16.1	3.2	751	-1	-1	3.2	2621	111	-1.2	-29	0.219
56-44.4833-109.7333-2-37-						0-W01457	29300	583	13530	-20	-1	15.7	2.8	847	-1		2.1	2525	122	-1.0	95	0.286
56-44.5667-109.6667-2-37-						0-W01458	42700	666	11670	52	-1	18.9	3.7	845	-1		3.3	3877	168	-1.0		0.303
56-44.5667-109.6667-2-37-						0-W01459	33533	744	11460	-21	-2	18.7	3.7	822	-1	-1	3.2	4579	220	-1.2	-27	0.313
56-44.5500-109.6667-2-37-						0-W01460	36100	611	11460	-26	-2	22.2	4.2	798	-1	-1	3.8	4076	169	-1.3	-32	0.237
56-44.4667-109.8333-2-37-						0-W01461	29970	648	11920	-21	-1	18.2	3.0	664	-1		2.4	3340	159	-1.0	66	0.292
56-44.5000-109.8250-2-37-						0-W01462	35330	777	10330	-25	-2	22.7	2.9	605	-1		2.2	5267	291	-1.1	-31	0.273
56-44.4833-109.8583-2-37-						0-W01463	35460	717	11820	-24	-2	21.2	3.3	670	-1	-1	3.1	3991	191	-1.3	-30	0.226
56-44.4750-109.8583-2-37-						0-W01464	34580	662	10750	-25	-1	17.5	3.2	604	-1	-1	3.5	2856	116	1.5	-30	0.229
56-44.5833-109.8167-2-37-						0-W01465	34440	625	10960	-21	-1	18.8	2.9	781	-1		2.8	2909	144	-1.0	60	0.286
56-44.5667-109.8333-2-37-						0-W01466	36580	726	11740	-22	-1	19.7	3.0	815	-1		2.7	4433	202	-1.0	-28	0.259
56-44.5000-109.8583-2-37-						0-W01467	50230	343	7972	-25	-2	34.2	3.1	-225	-1	-1	1.7	4394	291	1.8	-32	0.294
56-44.5083-109.8750-2-37-						0-W01468	20070	339	4594	-24	-2	9.9	1.2	391	-1	-1	-0.9	2381	106	-1.2	-20	
56-44.4917-109.8833-2-37-						0-W01469	41290	951	15930	-36	-5	27.1	4.7	1094	-1	-1	3.8	5156	230	-2.9	123	0.289
56-44.4917-109.8833-2-37-						0-W01470	57210	1117	15030	-48	-5	42.3	5.8	986	-1	-1	5.2	8391	420	-3.5	-55	0.212
56-44.5333-109.6833-2-37-						0-W01471	52990	1059	17560	82	-4	29.0	5.8	1195	-1	-1	5.5	5498	260	-2.5	128	0.291
56-44.5667-109.9167-2-37-						0-W01472	52570	1145	16240	-38	-5	29.9	4.1	1168	-1	-1	3.4	5245	249	-2.7	-44	0.412
56-44.5500-109.9333-2-37-						0-W01473	75410	1412	14360	-51	-7	43.4	5.4	-443	-2	-1	3.8	8670	501	-4.0	-60	0.263
56-44.5333-109.9417-2-37-						0-W01474	69710	1333	12960	-76	-10	57.6	6.8	1214	-3	-2	4.4	10810	562	-5.4	-82	0.341
56-44.5167-109.9333-2-37-						0-W01475	61130	1136	15090	-42	-5	42.3	4.1	1005	-2	-1	3.4	5742	314	-3.0	119	0.324

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

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	44.5167	109.8000	2	37	-	0-W01476-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
56	44.5167	109.8000	2	37	-	0-W01477-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56	44.4833	109.8000	2	37	-	0-W01478-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56	44.4667	109.7917	2	37	-	0-W01479-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.5083	109.5167	2	37	-	0-W01480-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56	44.5500	109.5583	2	37	-	0-W01481-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
56	44.5667	109.5667	2	37	-	0-W01482-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56	44.5583	109.5667	2	37	-	0-W01483-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20
56	44.6000	109.5667	2	37	-	0-W01484-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
56	44.6167	109.5500	2	37	-	0-W01485-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56	44.6333	109.5333	2	37	-	0-W01486-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
56	44.6167	109.9500	2	37	-	0-W01487-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60
56	44.5667	109.8750	2	37	-	0-W01488-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
56	44.6167	109.6333	2	37	-	0-W01489-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
56	44.6333	109.6333	2	37	-	0-W01490-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20
56	44.6333	109.6333	2	37	-	0-W01491-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70
56	44.6333	109.6333	2	37	-	0-W01492-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.40
56	44.6500	109.6083	2	37	-	0-W01493-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20
56	44.6333	109.6667	2	37	-	0-W01494-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60
56	44.6500	109.6667	2	37	-	0-W01495-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50
56	44.6000	109.8167	2	37	-	0-W01496-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
56	44.6750	109.3667	2	37	-	0-W01497-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70
56	44.6833	109.3750	2	37	-	0-W01498-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
56	44.7167	109.4667	2	37	-	0-W01499-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90
56	44.5000	109.6583	2	37	-	0-W01500-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56	44.7667	109.6667	2	37	-	0-W01501-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
56	44.6667	109.4667	2	37	-	0-W01502-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
56	44.6583	109.4667	2	37	-	0-W01503-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.40
56	44.6500	109.4917	2	37	-	0-W01504-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20
56	44.6917	109.5000	2	37	-	0-W01505-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10
56	44.5500	109.4667	2	37	-	0-W01506-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00

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

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56	44.5167	109.8000	2	37	0	0-W01476	-5	-5	-5	57	-20	21	-5	-10	-15	-1	24
56	44.5167	109.8000	2	37	0	0-W01477	-5	-5	-5	48	-20	22	11	-10	-15	1	19
56	44.4833	109.8000	2	37	0	0-W01478	-5	-5	-5	57	-20	28	-5	-10	-15	1	18
56	44.4667	109.7917	2	37	0	0-W01479	-5	-5	-5	51	-20	-15	-5	-10	-15	-1	21
56	44.5083	109.5167	2	37	0	0-W01480	-5	-5	-5	60	-20	-15	6	-10	-15	1	18
56	44.5500	109.5583	2	37	0	0-W01481	-5	-5	-5	63	-20	68	5	-10	-15	-1	21
56	44.5667	109.5667	2	37	0	0-W01482	-5	-5	-5	70	-20	44	-5	-10	-15	-1	18
56	44.5583	109.5667	2	37	0	0-W01483	-5	-5	-5	65	-20	56	7	-10	-15	-1	24
56	44.6000	109.5667	2	37	0	0-W01484										-1	30
56	44.6167	109.5500	2	37	0	0-W01485	-5	-5	-5	53	-20	27	-5	-10	-15	2	20
56	44.6333	109.5333	2	37	0	0-W01486	-5	-5	-5	55	-20	26	-5	-10	-15	-1	17
56	44.6167	109.9500	2	37	0	0-W01487										-1	30
56	44.5667	109.8750	2	37	0	0-W01488	-5	-5	-5	83	-20	-15	18	-10	-15	-1	33
56	44.6167	109.6333	2	37	0	0-W01489	-5	-5	-5	110	-20	44	15	-10	-15	1	27
56	44.6333	109.6333	2	37	0	0-W01490	-5	-5	-5	66	-20	24	8	-10	-15	2	21
56	44.6333	109.6333	2	37	0	0-W01491	-5	-5	-5	100	-20	35	9	-10	-15	2	29
56	44.6333	109.6333	2	37	0	0-W01492	-5	-5	-5	68	-20	32	8	-10	-15	-1	21
56	44.6500	109.6083	2	37	0	0-W01493	-5	-5	-5	70	-20	22	9	-10	-15	2	25
56	44.6333	109.6667	2	37	0	0-W01494	-5	-5	-5	81	-20	37	-5	-10	21	1	24
56	44.6500	109.6667	2	37	0	0-W01495	-5	-5	-5	83	-20	44	6	-10	-15	-1	22
56	44.6000	109.8167	2	37	0	0-W01496	-5	-5	-5	92	-20	26	14	-10	-15	2	11
56	44.6750	109.3667	2	37	0	0-W01497	-5	-5	-5	30	-20	22	-5	-10	-15	-1	4
56	44.6833	109.3750	2	37	0	0-W01498	-5	-5	-5	46	-20	32	12	-10	-15	-1	32
56	44.7167	109.4667	2	37	0	0-W01499	-5	-5	-5	70	-20	36	10	-10	-15	1	15
56	44.5000	109.6583	2	37	0	0-W01500	-5	-5	-5	70	-20	26	6	-10	-15	1	14
56	44.7667	109.6667	2	37	0	0-W01501	-5	-5	-5	42	-20	96	14	-10	-15	1	25
56	44.6667	109.4667	2	37	0	0-W01502	-5	-5	-5	49	-20	22	15	-10	-15	-1	20
56	44.6583	109.4667	2	37	0	0-W01503	-5	-5	-5	53	-20	38	-5	-10	-15	-1	21
56	44.6500	109.4917	2	37	0	0-W01504	-5	-5	-5	55	-20	16	-5	-10	-15	1	18
56	44.6917	109.5000	2	37	0	0-W01505										1	18
56	44.5500	109.4667	2	37	0	0-W01506										1	22

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS *Concentrations reported in weight parts per million (ppm)*														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	44.5167-	109.8000-	2-	37-	0-	W01476	72770	-0.19	942	59030	53	-110	29.6	145	-2.1	2	1.5	66790	2.0	13540	30	-0.1
56-	44.5167-	109.8000-	2-	37-	0-	W01477	83740	-0.19	993	50870	77	-113	26.5	109	-2.2	2	1.7	61790	2.5	10360	-15	-0.1
56-	44.4833-	109.8000-	2-	37-	0-	W01478	77020	-0.24	943	58660	63	-123	36.5	198	-2.6	3	1.9	82520	2.7	11140	44	-0.2
56-	44.4667-	109.7917-	2-	37-	0-	W01479	56330	-0.22	776	67460	55	-120	38.3	337	-2.5	2	1.6	95780	2.1	12620	-19	-0.2
56-	44.5083-	109.5167-	2-	37-	0-	W01480	87700	-0.16	1301	54970	53	-123	24.3	67	-1.8	2	1.3	54930	2.2	16160	31	-0.1
56-	44.5500-	109.5583-	2-	37-	0-	W01481	59690	-0.23	943	59040	54	-95	36.1	394	-2.5	-1	1.8	85630	2.4	12140	-13	-0.2
56-	44.5667-	109.5667-	2-	37-	0-	W01482	69900	-0.25	1046	57160	67	-114	46.4	411	-2.8	3	2.1	103600	2.6	17170	40	-0.2
56-	44.5583-	109.5667-	2-	37-	0-	W01483	71090	-0.20	1105	59650	61	-116	34.5	326	-2.3	3	1.9	78220	2.3	15730	-17	-0.1
56-	44.6000-	109.5667-	2-	37-	0-	W01484	82000	-0.21	1716	47920	55	-128	32.4	310	-2.4	3	1.0	58200	-1.1	24460	34	-0.2
56-	44.6167-	109.5500-	2-	37-	0-	W01485	56710	-0.21	925	52730	58	-95	29.0	207	2.0	2	1.7	68760	2.7	15980	29	-0.2
56-	44.6333-	109.5333-	2-	37-	0-	W01486	68810	-0.25	996	63260	66	-118	44.0	343	-2.8	3	2.0	100100	-1.3	17260	-19	-0.2
56-	44.6167-	109.9500-	2-	37-	0-	W01487	76820	-0.27	1130	56450	53	-162	29.1	207	-3.1	3	1.6	61510	3.4	9949	-23	-0.2
56-	44.5667-	109.8750-	2-	37-	0-	W01488	98800	-0.15	2002	42170	107	-119	16.0	32	-1.7	4	1.8	32650	4.3	31560	75	0.2
56-	44.6167-	109.6333-	2-	37-	0-	W01489	79310	-0.20	1452	42040	79	-109	29.8	161	2.6	2	1.7	63000	3.0	16240	45	-0.2
56-	44.6333-	109.6333-	2-	37-	0-	W01490	78680	-0.24	1145	46010	69	-121	40.7	116	-2.6	3	2.1	83440	-1.3	12470	43	-0.2
56-	44.6333-	109.6333-	2-	37-	0-	W01491	77430	-0.18	1528	46360	74	-123	32.0	193	2.2	3	2.3	69980	3.0	15190	55	-0.1
56-	44.6333-	109.6333-	2-	37-	0-	W01492	77570	-0.18	1215	52290	60	-107	30.8	192	-2.0	2	1.3	67990	2.6	16090	40	0.2
56-	44.6500-	109.6083-	2-	37-	0-	W01493	79330	-0.21	1171	50140	69	-113	27.5	143	-2.3	-1	1.7	64710	3.3	14940	-16	0.3
56-	44.6333-	109.6667-	2-	37-	0-	W01494	81340	-0.23	1354	49350	87	-122	35.0	212	-2.5	3	2.3	78040	3.1	20530	55	-0.2
56-	44.6500-	109.6667-	2-	37-	0-	W01495	77950	-0.18	1315	50100	79	-121	31.5	205	-2.1	3	1.4	69240	3.4	15670	43	-0.1
56-	44.6000-	109.8167-	2-	37-	0-	W01496	75910	-0.14	1279	37040	96	-110	20.3	41	-1.6	2	1.4	49310	3.7	18650	54	0.2
56-	44.6750-	109.3667-	2-	37-	0-	W01497	2786	-0.05	-50	387100	4	134	2.3	7	-0.5	-0	-0.1	3516	-0.4	-1108	-6	0.0
56-	44.6833-	109.3750-	2-	37-	0-	W01498	74140	-0.18	1016	38680	54	-117	27.4	362	-1.9	2	1.6	48160	3.0	17390	-14	-0.1
56-	44.7167-	109.4667-	2-	37-	0-	W01499	92820	-0.17	1027	43840	58	-132	23.2	130	-1.9	3	1.7	47590	2.5	17220	-15	0.3
56-	44.5000-	109.6583-	2-	37-	0-	W01500	59720	-0.16	900	44570	48	-102	22.7	86	-1.8	3	1.6	52200	2.8	18590	32	0.2
56-	44.7667-	109.6667-	2-	37-	0-	W01501	87310	-0.17	1494	41270	66	-131	22.4	254	-1.8	2	1.4	36960	2.6	15650	-11	-0.1
56-	44.6667-	109.4667-	2-	37-	0-	W01502	92130	-0.22	964	54480	68	-124	34.4	254	-2.5	3	2.2	66180	3.4	11430	39	-0.2
56-	44.6583-	109.4667-	2-	37-	0-	W01503	73740	-0.23	1003	58330	62	-132	29.7	250	-2.5	3	1.7	68060	2.7	10480	44	-0.2
56-	44.6500-	109.4917-	2-	37-	0-	W01504	77420	-0.18	1121	55470	64	-111	27.0	128	-2.1	-1	1.9	69710	2.9	12820	-16	-0.1
56-	44.6917-	109.5000-	2-	37-	0-	W01505	93350	-0.23	987	54950	49	-118	24.1	220	-2.6	3	1.7	54880	-1.2	14220	-18	-0.2
56-	44.5500-	109.4667-	2-	37-	0-	W01506	50860	-0.04	1024	30110	37	-82	9.1	35	-1.0	2	0.7	24680	1.7	15990	20	0.1

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-44.5167-	109.9000-	2-37-	0-	W01476		54500	1030	17950	-36	-4	28.9	4.2	962	-1	-1	3.9	5546	238	-2.5	-39	0.256
56-44.5167-	109.8000-	2-37-	0-	W01477		50430	995	21030	-35	-5	23.2	3.7	1095	-1	-1	4.0	4900	198	-2.8	-56	0.275
56-44.4833-	109.8000-	2-37-	0-	W01478		53380	1047	18850	-44	-6	37.2	6.2	1328	-1	-1	5.2	5339	296	-3.3	-48	0.212
56-44.4667-	109.7917-	2-37-	0-	W01479		55500	1158	16170	-42	-5	43.2	3.9	760	-1	-1	3.9	7802	368	-2.9	70	0.231
56-44.5083-	109.5167-	2-37-	0-	W01480		44840	960	21550	-33	-4	18.4	4.1	1631	-1	-1	4.3	4255	170	-2.2	148	0.256
56-44.5500-	109.5583-	2-37-	0-	W01481		53710	789	13730	-40	-5	40.6	4.6	887	-1	-1	3.3	5935	345	-3.2	-48	0.303
56-44.5667-	109.5667-	2-37-	0-	W01482		58650	1115	15520	-47	-5	41.0	5.7	1003	-2	-1	4.6	6950	344	-3.5	-51	0.239
56-44.5583-	109.5667-	2-37-	0-	W01483		61370	1037	15910	-39	-5	35.7	5.7	954	-1	-1	4.2	5669	278	-2.3	101	0.286
56-44.6000-	109.5667-	2-37-	0-	W01484		81990	1135	14090	-45	-5	20.0	4.2	1266	-2	-1	5.0	5357	200	-3.0	-48	0.380
56-44.6167-	109.5500-	2-37-	0-	W01485		57450	997	15360	-35	-5	28.6	5.7	851	-1	-1	3.4	4516	232	-2.8	-40	0.324
56-44.6333-	109.5333-	2-37-	0-	W01486		52420	1126	15440	-48	-6	45.1	6.4	954	-2	-1	5.1	6990	319	-3.5	-52	0.196
56-44.6167-	109.9500-	2-37-	0-	W01487		55300	1150	17140	-49	-7	29.7	4.3	881	-2	-1	4.4	5038	238	-3.8	69	0.364
56-44.5667-	109.8750-	2-37-	0-	W01488		17330	505	27310	59	-4	13.3	8.7	1785	-1	-1	11.3	5901	140	-2.2	91	0.212
56-44.6167-	109.6333-	2-37-	0-	W01489		52540	747	18570	-36	-5	20.6	4.9	1500	-1	-1	5.2	4926	200	-2.8	-57	0.346
56-44.6333-	109.6333-	2-37-	0-	W01490		69730	749	16770	-47	-6	30.1	5.9	1045	-2	-1	5.3	4613	181	-3.4	-53	0.226
56-44.6333-	109.6333-	2-37-	0-	W01491		50480	995	17580	-37	-5	24.7	4.4	933	-1	-1	4.7	5100	238	-2.6	-72	0.362
56-44.6333-	109.6333-	2-37-	0-	W01492		54890	990	17310	-37	-4	25.3	5.4	1610	-1	-1	4.4	4729	239	-2.5	41	0.319
56-44.6500-	109.6083-	2-37-	0-	W01493		53950	821	12480	-37	-5	25.7	4.1	1059	-1	-1	4.4	5671	235	-2.9	-42	0.273
56-44.6333-	109.6667-	2-37-	0-	W01494		54530	680	19750	-45	-5	29.7	5.3	1462	-1	-1	6.6	5406	213	-3.3	-49	0.242
56-44.6500-	109.6667-	2-37-	0-	W01495		51070	902	19170	-37	-5	28.4	7.1	1092	-1	-1	5.6	5043	214	-2.6	81	0.268
56-44.6000-	109.8167-	2-37-	0-	W01496		25100	778	23690	-31	-4	15.4	6.9	1344	-1	-1	9.8	4288	133	4.3	104	0.265
56-44.6750-	109.3667-	2-37-	0-	W01497		27780	39	230	-11	-1	3.6	-0.6	325			-0.4	-269	19	-0.8	-18	
56-44.6833-	109.3750-	2-37-	0-	W01498		52310	480	24010	-34	-4	18.1	-1.5	910	-1	-1	3.0	3880	111	-2.6	-81	0.267
56-44.7167-	109.4667-	2-37-	0-	W01499		39570	755	24490	-32	-4	21.1	5.3	1207	-1	-1	2.9	4902	154	-2.3	-60	0.310
56-44.5000-	109.6583-	2-37-	0-	W01500		38440	907	19370	-32	-4	25.2	4.9	931	-1	-1	3.7	4886	160	-2.2	97	0.297
56-44.7667-	109.6667-	2-37-	0-	W01501		61980	644	28210	-31	-4	12.7	-1.5	1197	-1	-1	3.5	3895	112	-2.5	-90	0.286
56-44.6667-	109.4667-	2-37-	0-	W01502		56470	953	20710	-44	-5	30.9	5.5	1168	-2	-1	2.9	4868	151	-3.2	-46	0.276
56-44.6583-	109.4667-	2-37-	0-	W01503		51060	1038	17120	-42	-5	31.7	6.2	810	-2	-1	4.3	6222	279	-3.1	86	0.326
56-44.6500-	109.4917-	2-37-	0-	W01504		41060	897	19690	-37	-5	25.6	5.3	1251	-1	-1	4.4	5022	241	-2.6	147	0.273
56-44.6917-	109.5000-	2-37-	0-	W01505		50030	955	21090	-40	-6	27.8	4.2	1250	-2	-1	3.4	5095	192	-3.3	124	0.324
56-44.5500-	109.4667-	2-37-	0-	W01506		15260	318	19410	44	-1	8.5	2.4	853	-1		3.6	2114	92	-0.8	75	0.278

APPENDIX II

STANDARD LASL HSSR PROCEDURES AND CODES

APPENDIX II-A

Summary of Standard LASL HSSR Field and Analytical Procedures

APPENDIX II-A

SUMMARY OF STANDARD LASL HSSR FIELD AND ANALYTICAL PROCEDURES

I. FIELD PROCEDURES

Water Sampling

Water samples are collected directly from the source wherever possible, filtered through a 0.45-μ membrane filter (except in Alaska where this step is omitted) directly into one each, prewashed and sealed, 41-ml reactor "rabbit" and 25-ml vial (both polyethylene). Water samples in both the rabbit and vial are then acidified to a pH <1 with 8N reagent-grade HNO_3. All sample containers are doubly labeled with preprinted, adhesive labels carrying the same sample location number as that preprinted on the field data form. Springs are sampled as near to their point of emergence as possible; stream waters are taken from the fast-flowing current away from the bank; and well waters are taken near the wellhead if the well is pumping.

Sediment Sampling (Wet or Dry)

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

Field Measurements

The air temperature, read in the shade at the time of sampling, is recorded to the nearest whole degree Celsius. The water temperature is measured in the source water and recorded to the nearest one-half degree Celsius. The pH of the source water is measured with a calibrated, portable pH meter and recorded to the nearest one-tenth of a pH unit. The conductivity (in μmho/cm) of the source water is measured with a calibrated, temperature-compensated (25°C), portable meter. The scintillometer readings are measured with a portable scintillometer on a flat, dry spot within a few meters of the sample location at spring or stream sites. Two readings are recorded, the first with a radiation shield in place (blocking out ground radiation) and the second with the shield removed. The readings (in counts/s) are converted by computer, using measured calibration factors, to the equivalent uranium (eU) value in the data listings.

Field Observations

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

Sample Location Verification

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

II. ANALYTICAL PROCEDURES

Uranium Determination in Water Samples by Fluorometry

Under normal procedures, the 25-ml water vial is vigorously shaken and duplicate 0.20-ml aliquots of water are transferred to platinum dishes. The aliquots are evaporated under heat lamps and a 0.4-g pellet of 2% LiF-98% NaF flux is added to each dish. The pellets are first preheated under lamps, then fused over special propane burners. After each pellet/sample cools, it is excited with ultraviolet radiation in the fluorometer and the fluorescence is read and recorded. The uranium concentrations are determined by using a computer routine which compares the fluorescence from each pellet with those from other pellets, run at the same time, containing uranium-standard solutions and blanks. The uranium concentration of the sample, as given in the appropriate data listings, is then the average obtained from the duplicate aliquots. The lower limit of detection for each aliquot by the normal procedure is 0.2 ppb; however, in some areas many samples have uranium concentrations below this. Consequently, when a sample run by the normal procedure is determined to have <0.2 ppb uranium, it is routinely reanalyzed using new duplicate aliquots that have been put through an additional evaporative concentration step that provides a 10X concentration factor. This additional procedure, using the same basic fluorometric method, reduces the lower limit of detection of uranium in natural waters to 0.02 ppb. When a uranium concentration lower than 0.02 ppb is found in an aliquot, it is arbitrarily assigned a value of 0.01 ppb. If the uranium value given in the data listings is 0.01 ppb, both aliquots had uranium concentrations below the detection limit. Whether concentrated or not (which can be determined from the uranium level in the listing), the fluorometric analytical precision is ≈30% at the lower detection limit, ≈20% at one order of magnitude above this, and ≈10% at two or more orders of magnitude above the lower detection limit. The basic fluorometric method used is described in detail by Hues et al (1977).

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

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

Uranium Determination in Sediment Samples by DNC

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

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

A computer-controlled, energy-dispersive x-ray fluorescence system is used to determine Ag, Bi, Cd, Cu, Nb, Ni, Pb, Sn, and W in sediments. The system consists of an automatic 20-position sample changer, a lithium-drifted silicon detector, a pulsed molybdenum transmission-target x-ray tube, a multichannel analyzer, and a minicomputer. The sediment samples are prepared for analysis by grinding 6 g of each minus 100-mesh sample to a minus 325-mesh powder. A computer program positions the 6-g samples in the x-ray beam, unfolds overlapping peaks, determines peak intensities for each element, and calculates the ratio of the intensity of each peak to that of the molybdenum Kα Compton peak. Concentrations of each element are then calculated using equations obtained by analyzing prepared standards. Detection limits are: 5 ppm for Ag, Bi, Cd, and Pb; 10 ppm for Cu and Sn; 15 ppm for Ni and W; and

20 ppm for Nb. When an analysis results in an elemental concentration that is below the detection limit, a minus sign preceding the value of the detection limit for that element is inserted in the data listings. The relative standard deviation is 10% or less at the 100-ppm level and 20% or less at the 20-ppm level. Details of the method and equipment used are described by Hansel and Martell (1977).

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

A 5-mg portion of the -325-mesh sample that has already been analyzed by x-ray fluorescence is mixed with 10 mg of a buffer consisting of one part graphite and one part SiO_2. The sample/buffer mixture is placed into a graphite electrode that is used as the anode of a dc arc having a short circuit current of 6A for 10 s, then 17A for 50 s. Photomultiplier tubes in a direct-reading spectrograph are used to measure the second order 313.0-nm line of Be, the first order 670.7- and 610.3-nm lines of Li, the background spectra near these lines, and the 327.6-nm line of V. The 670.7-nm Li line is used for Li concentrations up to 10 ppm and the 610.3-nm line of Li is used for concentrations above 10 ppm. The V line is used to correct the Be value when V is present. The signals from the photomultiplier tubes are read by a digital voltmeter and are processed by a desk-top calculator. The results are simultaneously printed on paper and written on cassette tape for later transmission to a computer data file. The elemental concentrations of Be and Li are determined from the spectra, based on the results of previously run calibration standards. The lower detection limit for both elements is 1 ppm. When an analysis results in an elemental concentration that is below the detection limit, a minus sign preceding the value of the detection limit for that element is inserted in the data listings. Precision at the lower detection limit is ≈50% for both elements and improves to ≈25% at one order of magnitude above the lower limit.

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

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

APPENDIX II-B

Explanation of Codes Used in Appendix I

APPENDIX II-B

EXPLANATION OF CODES USED

DOE SAMPLE NUMBER

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

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

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

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

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

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

LASL SAMPLE LOCATION NUMBER AND FIELD DATA

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1 = Depositing	2 = Eroding	3 = Unknown

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

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

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

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

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

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

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

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

OWNERSHIP: Not used.

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

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

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

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

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

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

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

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

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

APPENDIX II-C

Key to Sample Types Listed in Appendix I

APPENDIX II-C

KEY TO SAMPLE TYPES LISTED IN APPENDIX I

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

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

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

KEY NO. — SOURCE / MEDIUM / TREATMENT

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

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

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

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

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

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

37 - Wet stream sediment sample dried at ≤100°C (if necessary) and sieved to -80 mesh through stainless steel sieves.

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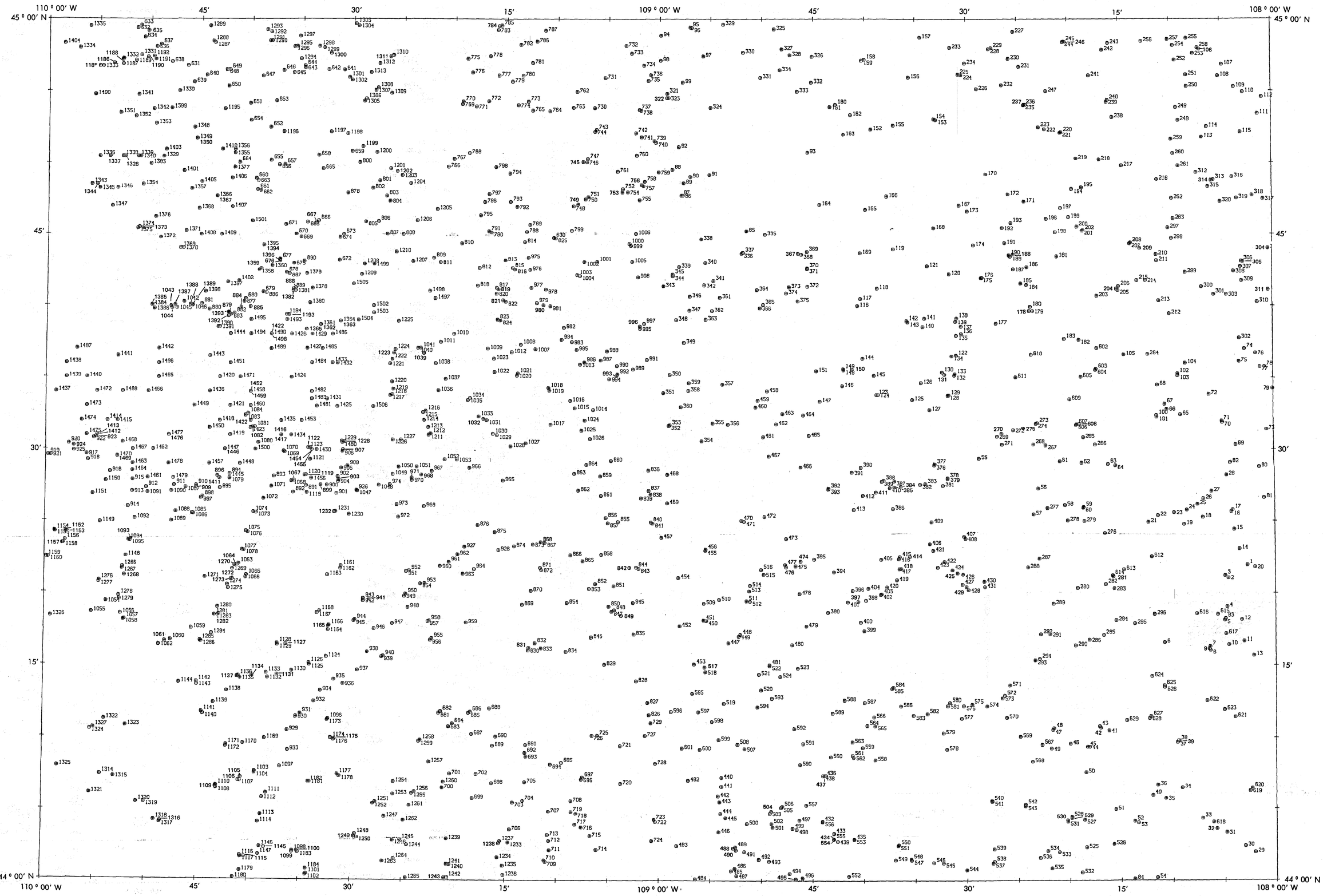
PLATE I



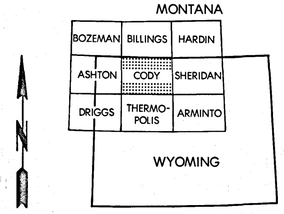
The LASL sample location numbers above are the same as those used in Appendix I except the leading two alphanumeric characters and any leading zeros have been dropped.

SCALE 1:250 000

5 0 5 10 15 20 25 MILE

5 0 5 10 15 20 25 KILOMETERS

SAMPLE LOCATION OVERLAY FOR THE CODY NTMS QUADRANGLE, WYOMING.



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